## 2007-2008 Undergraduate Calendar

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2007-2008 academic year, including the Summer Semester 2007, the Fall Semester 2007 and the Winter Semester 2008. 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:



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### Disclaimer

### **University of Guelph 2007**

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2007-2008 academic year, including the Summer Semester 2007, the Fall Semester 2007 and the Winter Semester 2008.

The University reserves the right to change without notice any information contained in this calendar, including 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.

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Published by: Undergraduate Program Services

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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/DBLaws/Statutes/English/90f31\_e.htm. 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/index.cfm?index.

### **Statistics Canada - Notification of Disclosure**

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

### Address for University Communication

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

### **Email Address**

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

### **Home Address**

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through 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. Complete policy at http://www.uoguelph.ca/policies.

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International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Life and Counselling Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>524</b> <b>524</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>527</b> <b>527</b> <b>527</b> <b>528</b> <b>528</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>529</b> <b>559</b> <b>529</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>559</b> <b>5595</b> <b>559</b> <b>559</b> <b>559</b> <b>5595</b> <b>559</b> <b>559</b> <b>5595</b> <b>559</b> <b>559</b> <b>559</b> <b>55955</b> <b>559</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Life and Counselling Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         Muniversity Community Principles       5         Academic Responsibilities       5	522         522         522         522         522         523         523         523         523         523         523         523         523         523         523         523         523         523         523         524         525         525         525         525
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Life       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Offenses       5	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525525</b> <b>525</b> <b>525525</b> <b>525525</b> <b>525525</b> <b>525525</b> <b>525525</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Housing Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Housing Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525525</b> <b>525</b> <b>525525</b> <b>525525</b> <b>525</b> <b>525525</b> <b>525525</b> <b>525525</b> <b>5255255</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>525</b> <b>526</b> <b>525526</b> <b>525</b> <b>526</b> <b>526</b> <b>526526</b> <b>526</b> <b>526526</b> <b>526526</b> <b>526526</b> <b>526526</b> <b>5265265</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526</b> <b>526526</b> <b>526526</b> <b>526</b> <b>526526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526526</b> <b>526</b> <b>5265</b> <b>5265</b> <b>526<b>5</b>5<b>5555<b>55</b></b></b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University Centre       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>5265</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>5265</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Co-operative Education & Career Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Judiversity Bookstore       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>5</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>5</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>5</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>5</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>5</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>5</b> <b>5</b> <b>526</b> <b>5</b> <b>526</b> <b>5</b> <b>526</b> <b>5</b> <b>526</b> <b>5</b> <b>526</b> <b>5</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University I.D. Cards       5         XV. Summary of Attendance       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>557</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526526</b> <b>526526</b> <b>526527</b> <b>527</b> <b>526526</b> <b>5265265</b> <b>5265</b> <b>5275</b> <b>526</b> <b>5265</b> <b>527</b> <b>5</b> <b>5265</b> <b>527</b> <b>5</b> <b>5265</b> <b>527</b> <b>5</b> <b>527</b> <b>5</b> <b>555</b> <b>555</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University I.D. Cards       5         XV. Summary of Attendance       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>557</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526526</b> <b>526526</b> <b>526526</b> <b>526527</b> <b>527</b> <b>526526</b> <b>5265265</b> <b>5265</b> <b>5275</b> <b>526</b> <b>5265</b> <b>527</b> <b>5</b> <b>5265</b> <b>527</b> <b>5</b> <b>5265</b> <b>527</b> <b>5</b> <b>527</b> <b>5</b> <b>555</b> <b>555</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Co-operative Education & Career Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>5524</b> <b>5525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>528</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>5265</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526527</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>555</b> <b>555</b> <b>555</b> <b>55555</b> <b>5555555555555</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Housing Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>526</b> <b>527</b> <b>537</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>530</b> <b>5</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Health Services       5         Student Husing Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University Centre       5         University LD. Cards       5         XVI. Administration and Faculty       5	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>530</b> <b>530530</b> <b>530530</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Life       5         Athletics       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Government       5         Student Health Services       5         Student Health Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Judicial Processes       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University I.D. Cards       5         XV. Summary of Attendance       5         XVI. Administration and Faculty       5         Administration and Faculty       5         Honorary Fellows of the University       5	<b>522</b> <b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>527</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>530</b> <b>530</b> <b>530530</b> <b>530530</b>
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International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Computing       5         Office of the Associate Vice-President, Student Affairs       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Health Services       5         Student Health Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Judicial Processes       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University Centre       5         University I.D. Cards       5         XV. Summary of Attendance       5         XVI. Administration and Faculty       5         Administration and Faculty       5         Administration and Faculty       5         Medal of Merit       5 <td< td=""><td>522         522         522         522         522         522         523         523         523         523         523         523         523         523         523         523         524         525         525         526         526         526         526         526         526         526         526         526         526         527         28         430         530         530         530         530         530         530         530</td></td<>	522         522         522         522         522         522         523         523         523         523         523         523         523         523         523         523         524         525         525         526         526         526         526         526         526         526         526         526         526         527         28         430         530         530         530         530         530         530         530
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International Students       Inventions Policy         Library       Student Students         OPIRG-Guelph       Regular Officer Training Plan (ROTP)         Statistics Canada - Notification of Disclosure       Student Computing         Student Computing       Student Life         Athletics       Student Life         Athletics       Student Government         Student Health Services       Student Health Services         Student Life and Counselling Services       Student Life and Counselling Services         Student Rights and Responsibilities       Student Rights and Responsibilities         University Community Principles       Academic Responsibilities         University Community Principles       Students With Disabilities (CSD)         University Centre       University Centre         University I.D. Cards       Student Students         XV. Summary of Attendance       Student of Governors         Honorary Fellows of the University       Medal of Merit         John Bell Award       Student Service         Administrative Officers       Administrative Officers	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>530</b> <b>530</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>530</b>
International Students       Inventions Policy         Library       Student Students         OPIRG-Guelph       Regular Officer Training Plan (ROTP)         Statistics Canada - Notification of Disclosure       Student Computing         Student Computing       Student Life         Athletics       Student Life         Athletics       Student Government         Student Health Services       Student Health Services         Student Life and Counselling Services       Student Life and Counselling Services         Student Rights and Responsibilities       Student Rights and Responsibilities         University Community Principles       Academic Responsibilities         University Community Principles       Students With Disabilities (CSD)         University Centre       University Centre         University I.D. Cards       Student Students         XV. Summary of Attendance       Student of Governors         Honorary Fellows of the University       Medal of Merit         John Bell Award       Student Service         Administrative Officers       Administrative Officers	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>530</b> <b>530</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>530</b>
International Students       5         Inventions Policy       5         Library       5         OPIRG-Guelph       5         Regular Officer Training Plan (ROTP)       5         Statistics Canada - Notification of Disclosure       5         Student Computing       5         Student Computing       5         Student Computing       5         Learning Commons       5         Office of the Associate Vice-President, Student Affairs       5         Student Health Services       5         Student Housing Services       5         Student Life and Counselling Services       5         Student Rights and Responsibilities       5         University Community Principles       5         Academic Responsibilities       5         Judicial Processes       5         Judicial Processes       5         Students With Disabilities (CSD)       5         University Centre       5         University I.D. Cards       5         XV. Summary of Attendance       5         XVI. Administration and Faculty       5         Administration and Faculty       5         Administration and Faculty       5         Administrati	<b>522</b> <b>522</b> <b>522</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>523</b> <b>524</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>527</b> <b>527</b> <b>525</b> <b>525</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>526</b> <b>530</b> <b>530</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>5300</b> <b>530</b>

Arboretum	531
Athletics	
Audit Services	
Centre for Families, Work and Well-Being	
Centre for Food Security	
Centre for International Programs	
Centre for Studies in Leadership	
Communications and Public Affairs	
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Department of Chemistry	
Department of Computing and Information Science	
Department of Mathematics and Statistics	
Department of Physics	
Faculty of Environmental Sciences	
School of Engineering	
College of Social and Applied Human Sciences	
Department of Family Relations and Applied Nutrition	
Department of Geography	
Department of Political Science	
Department of Psychology	
Department of Sociology and Anthropology	
Ontario Agricultural College	
Department of Animal and Poultry Science	
Department of Environmental Biology	
Department of Food, Agricultural and Resource Economics	
Department of Food Science	
Department of Land Resource Science	
Department of Plant Agriculture	
School of Environmental Design and Rural Development	
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January 28, 2008	
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### I. Statement of Students' Academic Responsibilities

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

- knowing the University's Learning Objectives (Section II);
- familiarizing yourself with the Undergraduate Degree Regulations & Procedures (Section VIII) and understanding grading procedures and continuation of study regulations;
- selecting a program of study to meet both degree and specialization requirements (Section X--Degree Programs) and carefully reviewing the personalized Program/Academic Evaluation Report you receive each semester, 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 campusses at Alfred, Kemptville and Ridgetown.

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 Ridgetown, 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 80,000 alumni in 130 countries.

### 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.

### **Academic Organization**

College of Arts School of Fine Art and Music School of Languages and Literatures School of English and Theatre Studies College of Biological Science College of Management and Economics School of Hospitality and Tourism Managment College of Physical and Engineering Science School of Engineering College of Social and Applied Human Sciences Ontario Agricultural College Campus d'Alfred Kemptville Campus Ridgetown Campus School of Environmental Design and Rural Development

- Faculty of Environmental Sciences
- Faculty of Graduate Studies

Ontario Veterinary College

- Biophysics Interdepartmental Group Centre for Families, Work and Well-Being
- Centre for Food Security
- Centre for Genetic Improvement of Livestock
- Centre for International Programs
- Health and Performance Centre
- Centre for Land and Water Stewardship
- Centre for New Students
- Centre for Toxicology
- Colonel K.L. Campbell Centre for the Study of Animal Welfare
- George Morris Centre
- Guelph Food Technology Centre
- Guelph Turfgrass Institute
- Horticultural Research Institute of Ontario
- Independent Study/OAC Access
- Institute for Environmental Policy and Stewardship
- Institute of Ichthyology
- Landscape Research Group
- Office of Open Learning
- Office of Research
- Teaching Support Services
- University of Guelph-Humber
- Four inter-university research programs:
  - Guelph Waterloo Centre for Research in Biotechnology Guelph Waterloo Centre for Graduate Work in Physics Guelph Waterloo Centre for Research in Chemistry Guelph McMaster Graduate Program in Philosophy

### 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
- 4. Global Understanding
- 5. Moral Maturity
- 6. Aesthetic Maturity
- 7. Understanding of Forms of Inquiry
- 8. Depth and Breadth of Understanding
- 9. Independence of Thought
- 10. Love of Learning

They are a set of objectives described in terms of the desired characteristics of educated graduates, and are used in part to guide educators in their development of courses and programs. Their descriptions are as follows:

### 1. Literacy

Literacy is the base on which all else is predicated. The ability to read and write and, in general, to communicate properly is a fundamental intellectual tool. With it, students can learn to think clearly and to some purpose. Without it, they cannot analyze properly nor develop an independence of thought. Literacy affords a means of access to the raw material upon which the critical or creative intelligence is to be exercised. It affords a means of communication, of shaping ideas and concepts, of selecting between different or competing formulations. It is a means of instructing others.

The most basic experience in literacy given to the student should be the writing of a short expository paper, or the oral presentation of an informational report, on a prescribed topic or on a topic chosen from a restricted list.

At the next level, the student should be required to write a paper (or give a seminar), critical and analytical in its intent, on a topic of the student's devising. The ability to devise a topic, to frame its bounds, is at the same time an aspect of understanding of first order importance.

At the highest level, there should be produced a paper, in an appropriate style, that analyzes, synthesizes or argues from a hypothesis and itself generates hypotheses; that produces knowledge, insight, or understanding in the reader and manifests it on the part of the writer; that shows a breadth of understanding in drawing out implications and making connections between remote features of the domain; that, in short, demonstrates a love

Faculty of Managment

of learning and an intelligent creativity. This requirement may readily be met in existing senior honours paper courses and the like.

Over the course of an undergraduate education, the level of difficulty of the material which the student can read, comprehend, and utilize should increase. One way of securing this might be to encourage, in each discipline program where they do not now exist, reading courses requiring independent work at the 4000 level.

In general, the ability to read and comprehend materials of the highest difficulty is enhanced in semester-long research paper courses and in reading courses. Such courses contribute also to independence of thought and to depth and breadth of understanding.

In its broadest sense, the objective of literacy implies that it is desirable that the student have skill in another language, so as to be able to comprehend material of the appropriate level of sophistication in that language.

#### 2. Numeracy

For the purposes of this discussion, numeracy may be defined as the ability to use mathematics at a level and in a manner appropriate to good citizenship and to vocational fitness. Mathematics deals with quantity and form, with measurement, structures, and relations, and encompasses a richer intellectual domain than just the utilitarian skills of numerical computation. It is as a mode of thinking, no less than as a collection of useful techniques, that it justifies its place in any well-rounded curriculum.

Numeracy, in the sense adopted here, is an essential attribute of the informed and responsible citizen. A correct understanding of the proper use of numbers is necessary in a culture in which information routinely comes in numeric form and significant decisions of social policy often have quantification at their base. Without the ability to comprehend the use of quantitative data, and to detect instances of misuse, we may have to forego opportunities for independent judgment.

Numeracy, more generally, enforces an accuracy and precision of procedure and thought that is valuable to all educated persons. As a mode of conceptualization of thought, it should be part of the mental apparatus of all graduating students. While a grasp of the nature and principles of mathematical forms of inquiry is essential to an understanding of scientific thought, it can be of benefit in other areas of intellectual activity. Opportunities for fostering numeracy exist in more disciplines than those traditionally requiring a substantial knowledge of mathematics. A recognition that numeracy, in association with literacy, forms the foundation of most if not all of the other learning objectives, should result in greater exploitation of those opportunities than in their avoidance.

#### 3. Sense of Historical Development

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

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

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

### 4. Global Understanding

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

#### 5. Moral Maturity

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

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

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

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 unformed, 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**

The University of Guelph was incorporated by an Act of the Ontario Legislature in 1964. The Act specifies that control of the University lies with the Board of Governors and the Senate.

The Board of Governors is responsible for the government, conduct, management and control of the University and its properties, revenues and expenditures, and business affairs.

The Senate has responsibility for educational policy, including the creation of faculties, departments, schools and institutes; courses of study and standards of admission and continuation of study; qualifications for and granting of degrees, including honorary degrees, and of diplomas; examinations and examiners, fellowships, scholarships and

### **III. Schedule of Dates**

The dates for the 2007-2008 academic year are listed by semester below as follows: Summer Semester 2007

Fall Semester 2007 Winter Semester 2008

### Summer Semester 2007 (12 Week Format)

### Monday, April 23

Last day to submit Requests for Academic Consideration - 3rd meeting

### Tuesday, May 1

• Last day for applications for internal program transfer to Fall Semester 2007 for all programs except B.L.A. and D.V.M.

### Wednesday, May 9

- Add period begins
- Thursday, May 10
  - Class schedule commences

### Friday, May 11

2007

- · Last day to submit Requests for Academic Consideration--1st meeting
- · Last day to submit co-op work performance evaluations for Winter Semester

### Thursday, May 17

• Ridgetown Campus Convocation

### Friday, May 18

- Add period ends
- Last day to drop two-semester courses (W/S)
- · Last day for clearance to graduate for Summer Convocation

### Monday, May 21

Holiday--NO FULL-SEMESTER COURSES SCHEDULED--classes rescheduled to Thursday, August 2

#### Thursday, May 24

• Last day to submit co-op work semester reports for Winter Semester 2007

### Friday, May 25

Kemptville Campus Convocation

### Saturday, May 26

Alfred Campus Convocation

#### Monday, June 4

Course selection period for Fall Semester 2007 begins--In-course students

### Thursday, June 7

- Last day to submit Requests for Academic Consideration--2nd meeting
- Friday, June 8
- Course selection period for Fall Semester 2007 ends--In-course students *Monday*, June 11
- Summer Convocation

### Tuesday, June 12

Summer Convocation

#### Wednesday, June 13

Summer Convocation

#### Thursday, June 14

- Summer Convocation
- · Deferred examinations commence

#### Friday, June 15

- Summer Convocation
- Last day for applications to graduate for Fall Convocation (No Ceremony)

### Saturday, June 16

Deferred examinations scheduled

### Tuesday, June 19

· Deferred examinations conclude

### Friday, June 29

• Last day of course selection for Fall 2007--NEW STUDENTS

### Monday, July 2

 Holiday--NO COURSES SCHEDULED--classes rescheduled to Friday, August 3

### Friday, July 6

• Fortieth class day--Last day to drop one semester courses

### Thursday, August 2

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### Friday, August 3

Classes rescheduled from Monday, July 2, Monday schedule in effect

### Classes conclude

- Monday, August 6 • Holiday
- Thursday, August 9
- Examinations commence

### Saturday, August 11

- Examinations scheduled
- Friday, August 17
  - Examinations conclude

### Monday, August 20

- · Last day to submit Requests for Academic Consideration -- 3rd meeting
- Add period for Fall Semester 2007 begins

### Summer Session 2007 (6 Week Format)

#### Thursday, May 10

- Class schedule commences
- Monday, May 14
  - Last day to add Summer Session courses
- Monday, May 21
- Holiday--CLASSES ARE SCHEDULED--Summer Session courses only

### Thursday, June 7

- Last day for dropping courses in Summer Session
- Wednesday, June 20
  - Classes conclude

### Monday, June 25

- Examinations commence
- Friday, June 29
- Examinations conclude

### Fall Semester 2007

### Friday, June 29

- Last day of course selection for Fall 2007--NEW STUDENTS
- Monday, August 20
- Add period for Fall Semester 2007 begins

· Last day to drop two-semester courses (S/F)

• Holiday--NO CLASSES SCHEDULED

· Deferred examinations commence

Deferred examinations conclude

· Fall Convocation--No Ceremony

· Course selection period ends--In-course students

Monday, September 3

#### Holiday

- Friday, September 7
  - · Last day to submit Requests for Academic Consideration--1st meeting

### Monday, September 10

- Class schedule commences
- Tuesday, September 11

Friday, September 14

· Add period ends

Friday, September 21

Friday, October 5

Monday, October 8

Tuesday, October 9

Friday, October 12

Saturday, October 13

Monday, October 15

Wednesday, October 31

• Last day to submit co-op work performance evaluations for Summer 2007

· Last day to submit co-op work semester reports for Summer 2007

· Last day for applications to graduate for Winter Convocation

· Last day for clearance to graduate for Fall Convocation (No Ceremony)

· Last day to submit Requests for Academic Consideration -- 2nd meeting

• Course selection period for Winter Semester 2008 begins -- In-course students

2007-2008 University of Guelph Undergraduate Calendar

### Thursday, November 1

• Last day for applications for admission to Winter Semester 2008 for the B.A. program

### Monday, November 5

Fortieth class day--Last day to drop one semester courses

### Monday, November 12

• Last day to apply for international exchange programs departing in Summer 2008 without late application fee

### Thursday, November 15

• Last day for applications for admission to Winter Semester 2008 for all programs with Winter entry (except B.A. program)

### Friday, November 30

- Classes conclude
- Last day for applications from in-course students for transfer (Winter Semester 2008) into Co-op program for B.A. (Psychology), B.A. (Computing & Information Science), B.Sc., and B.Comp., B.Sc.(Agr.), B.A.Sc. (Gern.)

### Monday, December 3

- Examinations commence
- Monday, December 10
  - Add period for Winter Semester 2008 begins

### Friday, December 14

Examinations conclude

### Monday, December 17

Last day to submit Requests for Academic Consideration--3rd meeting

### D.V.M. Fall Semester 2007

### Monday, September 3

Holiday

### Tuesday, September 4

- Classes Commence (Phase 1, Phase 2, Phase 3)
- Rotations commence (Phase 4)

### Monday, October 8

- Holiday--NO CLASSES SCHEDULED
- Rotations continue (Phase 4)

### Friday, December 14

- Classes conclude (Phase 1, Phase 2, Phase 3)
- Monday, December 17
  - Rotations conclude (Phase 4 )

### Winter Semester 2008

### Monday, December 10

• Add period for Winter Semester 2008 begins

### Friday, January 4

Last day to submit Requests for Academic Consideration--1st meeting

Monday, January 7

### Class schedule commences

### Tuesday, January 8

• Last day to submit co-op work performance evaluations for Fall 2007

- Friday, January 11
  - Add period ends
  - Last day to drop two-semester courses (F/W)

### Friday, January 18

- Last day for clearance to graduate for Winter Convocation
- Last day to submit co-op work semester reports for Fall Semester 2007

### Friday, January 25

• Last day to apply for international exchange programs departing in Fall 2008 or Winter 2009 without late application fee

### Friday, February 1

- Last day for applications for admission to D.V.M.
- Last day to submit Request for Academic Consideration--2nd meeting

### Thursday, February 7

• Deferred examinations commence

### Friday, February 8

Last day for applications to graduate for Summer Convocation

### Saturday, February 9

Deferred examinations scheduled

2007-2008 University of Guelph Undergraduate Calendar

### Tuesday, February 12

- Winter Break begins--NO CLASSES SCHEDULED THIS WEEK
- Holiday

### Tuesday, February 19

- Winter Convocation
- Wednesday, February 20
- Winter Convocation
- Thursday, February 21
  - Winter Convocation
- Friday, February 22
  - Winter Break ends
  - Winter Convocation
- Monday, February 25 • Classes resume

- Monday, March 3
  - Last day for applications for admission to Fall 2008 for B.L.A.
- Course selection period for Summer 2008 and Fall 2008 begins--In-course students

### Friday, March 7

• Fortieth class day -- Last day to drop one semester courses

### Friday, March 14

• Last day for applications for admission to Summer 2008 for all programs with summer entry

### Friday, March 21

Holiday--NO CLASSES SCHEDULED

### Tuesday, March 25

Course selection period ends-In-course students

### Monday, March 31

• Last day for applications from in-course students to transfer (Fall 2008 term) into the Co-op program for B.A. (Economics), B.A.Sc., B.Comm., B.Sc.(Eng.) and B.Sc.(Env.)

### Friday, April 4

Classes conclude

### Monday, April 7

- Examinations begin
- Friday, April 18
  - Examinations conclude

### Monday, April 21

· Last day to submit Requests for Academic Consideration--3rd meeting

• Winter Break begins--NO CLASSES SCHEDULED THIS WEEK (Phase 1,

Last Revision: January 28, 2008

### D.V.M. Winter Semester 2008

Wednesday, January 2

Friday, February 1

Monday, February 18

Friday, February 22

Monday, February 25

Friday, March 21

Friday, March 28

Monday, March 31

Friday, April 4

Monday, April 7

Friday, April 11

Monday, April 14

Phase 2, Phase 3)

· Winter Break ends

• Classes commence (Phase 1, Phase 2, Phase 3)

· Last day for applications for admission to D.V.M.

Classes resume (Phase 1, Phase 2, Phase 3)

· Laboratory evaluations commence (Phase 1, Phase 2)

• Examinations commence (Phase 1, Phase 2, Phase 3)

Holiday--NO CLASSES SCHEDULED

Classes conclude (Phase 1, Phase 2)

Classes conclude (Phase 3)

• Rotations conclude (Phase 4)

• Rotations commence (Phase 4)

• Summative examinations commence (Phase 4)

- Friday, April 18
- Examinations and evaluations conclude (Phase 1, Phase 2, Phase 3, Phase 4)

Monday, May 5

• Externship course begins (Phase 4)

### **IV. Admission Information**

### Admission Requirements to University Programs in 2007

### 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 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 4U or 4M and/or OAC credits, including OAC English I or ENG 4U. All specific subject requirements must be Grade 12U or OAC credits. 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 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 4U or 4M and/or OAC credits (or equivalent) and including specific subject requirements. The minimum final admission average which the applicant will have to achieve will be stipulated in the condition. 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.

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 early June may be 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 when places are still available in the program and/or specialization to which the student has applied at the time that the final grades are received. Applicants may be required to possess an admission average higher than those outlined for guaranteed admission.

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

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

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

#### **International Baccalaureate**

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

The English Proficiency Requirement will be waived for applicants who have completed the Diploma where the language of instruction is English. Credit will be assigned upon receipt of official final results.

#### Advanced Placement

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

#### 2. Applicants from Outside Ontario

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

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

- a. Other Provinces and Territories of Canada Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Northwest Territories, Nova Scotia, Nunavut, Prince Edward Island, Saskatchewan, Yukon--Grade 12. Quebec--Senior High School Leaving Certificate or High School Leaving Certificate plus 12 academic credits from an appropriate CEGEP program. For further details, please visit http://www.uoguelph.ca/admissions/outofprov.
- 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. General Certificate of Education (GCE) Systems Applicants must present either the GCSE (or IGCSE) and the GCE showing one of:
  - i. five subjects, at least two of which must be at the GCE Advanced level
  - ii. four subjects, at least three of which must be at the GCE Advanced level
  - 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 if space permits and if, prior to the beginning of the Fall semester, they

- a. will have attained at least the full age of twenty-one years;
- b. will have been out of secondary school for at least two years.
- c. will have normally not attended another post-secondary institution.

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.

#### **B.A. Programs**

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. Note: Mature Students who do not possess the minimum requirements for direct admission to the degree program must successfully complete a minimum of 2.00 credits in the General Studies program before applying to transfer to the B.A. program.

#### B.Comm. Program

Applicants 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 as follows:

(HRM, HREM, TMGT, HAFA, PMGT): ENG4U a 4U Mathematics, and one additional 4U/4M credit.

(AG BUS, MKMN, MEIF): ENG4U, MCB 4U, and one additional 4U/4M credit.

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

## B.A.Comp., B.A.S., B.Comp., B.Sc., B.Sc. (Agr.), B.Eng., B.Sc. (Env.), B.Sc. (Tech.), B.A.Sc. and B.L.A.

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 or OAC subjects or equivalent which are required of regular applicants for these programs.

#### **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 with the opportunity to take university courses before registering in a specific degree program or to take university courses for continued learning with no immediate intention of registering in a degree program. All applicants must be Canadian citizens or Permanent Residents. Applicants will normally:

- a. not have previously registered at a university
- b. have completed O.S.S.D. or equivalent and
- c. have been out of secondary school for 5 years.

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

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

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

### **Advanced Standing Admission**

## 1. Advanced Standing Applicants from a recognized University or College in Canada

Applicants for admission to the University of Guelph transferring from an accredited university or college are normally subject to the following admission policy.

- a. Applicants must have completed the Ontario Secondary School Diploma including 6 Grade 4U or 4M or OAC credits, or equivalent, for admission to the University of Guelph prior to the commencement of the academic session for which application is made.
- b. Applicants must be eligible for readmission and registration on a full-time basis at the last university or college attended in the academic session for which application is made. Applicants whose academic records at another university have rendered them ineligible to continue study at that university will be considered for admission only when the stipulated period of rustication has expired.
- c. Students registered in a preliminary year, bridging year or first year at a recognized university or junior college to which students are admitted without having completed the Ontario Secondary School Diploma or the equivalent are eligible to apply for admission to first year at this University provided that their first or preliminary year program includes subjects equivalent to those 4U or 4M or OAC credits required for admission to each program. Credit towards graduation from the University program which does not require completion of the Ontario Secondary School Diploma or equivalent for admission.
- d. Admission of students transferring from another university or college is not automatic. All such applicants will be assessed in competition with other new applicants, taking into consideration the academic requirements and enrolment limitations which pertain at the time the application is complete. In addition, an offer of admission will not imply in any way that space will be available in the course(s) in which the applicant wishes to register.
- e. The University of Guelph subscribes to the following General Policy on the Transfer of Course Credits, as adopted by the Council of Ontario Universities: Acceptance of transfer credits among Ontario Universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigour. Upon admission, and insofar as possible, acceptance of transfer credit should allow for the maximum recognition of previous learning experience in passed university-level courses.

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

- f. In addition, the University of Guelph supports the intent of the Pan-Canadian Protocol on the Transferability of University Credits to develop consistent, fair and efficient systems to facilitate student mobility and program completion. In consideration of the principles of the Protocol, the University of Guelph undertakes to ensure that all course work completed by transfer students in the first two years of university study in Canada (including the final year leading to a diploma of college studies (DCS) in Quebec and the transfer courses offered by community colleges in British Columbia and Alberta) are recognized and, subject to degree, grade and program requirements are credited for the purpose of granting a degree provided that:
  - i. the applicant is deemed admissible and has been offered admission
  - ii. a passing grade has been achieved in each course to be transferred and the grade is at the level that normally would be required of students at the University of Guelph and
  - iii. the credits earned are related to the program of study in which the transfer student will register, or the credits can be counted as electives in the program of study.
- g. Candidates from non-Ontario universities or colleges applying for advanced standing must submit, with the application, detailed course descriptions, or a calendar of the institution at which they studied. The provision of such information will greatly facilitate the evaluation of previous work and the consideration of possible transfer of credits. The amount of transfer credit granted is at the discretion of the Registrar and the Dean of the College concerned.

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

- h. Applicants who have been required to withdraw from the University of Guelph or another post-secondary institution and who pass university credit courses during the period of rustication, may be eligible for up to 1.00 credit (1 full-year course) 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 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. Undergraduate 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 would 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 will be re-assessed where deemed appropriate by the Admissions 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 and Bachelor of Commerce, Agricultural Business program may be eligible for additional transfer credit. A minimum overall average of B is required in the Associate Diploma Program(s) for consideration of any transfer credit.

### 4. Ontario College of Art and Design

In recognition of the equivalence of many of the courses in the program of the Ontario College of Art and Design, the University wishes to encourage qualified students of OCAD to complement their education there by studying at the University of Guelph and completing the requirements for a B.A. degree. Options available in Fine Art are listed in the B.A. schedule of studies.

If admitted to the University, students transferring from OCAD may be granted advanced standing for course work completed at OCAD according to the following schedule:

- a. Completion of first year: up to  $2.50\ {\rm credits}$  in Fine Art-1.50 in Fine Art (Studio) and 1.00 in Art History
- b. Completion of second year: up to 5.00 credits in Fine Art--4.00 in Fine Art (Studio) and 1.00 in Art History
- c. Completion of third year: up to 7.50 credits in Fine Art--6.50 in Fine Art (Studio) and 1.00 in Art History
- d. Completion of four-year Diploma: up to 10.00 credits in Fine Art--9.00 in Fine Art (Studio) and 1.00 in Art History.

Students are warned that even if they are given advance standing in 10.00 credits, it is extremely unlikely that they will be able to complete the B.A. program requirements within two semesters. Please note that OCAD graduates may take a maximum of 2.00 credits in Fine Art (Studio) at Guelph.

If an offer of admission is granted, advanced standing will be determined based on assessment of the OCAD transcript by the School of Fine Art and Music. Credit will be granted only for studies completed while registered at OCAD. Please note that this transfer credit arrangement applies only to the B.A. program.

Any applicant who has completed academic studies at a post-secondary institution other than OCAD must supply a transcript to Admission Services. All previous post-secondary work will be considered in determining eligibility for admission and granting transfer credit. Students currently enrolled at OCAD who are interested in working towards a B.A. concurrently may apply for admission and pursue their studies in the Summer Semester. Please contact Admission Services, Office of Registrarial Services, Level 3, University Centre, University of Guelph, Guelph, Ontario, N1G 2W1 for additional information.

### 5. CEGEPS - Province of Quebec

- Applicants who present the Diplôme des Etudes Collegiales 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**

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

Because enrolment in certain courses is limited by the availability of resources, the University cannot guarantee that all students wishing to take a particular specialization will be accommodated. Applicants wishing to enrol in courses offered in the distance only mode for personal interest or for professional development should contact the 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 Grade 12U and 12M or OAC requirements for the various programs. The OUAC 101 application may 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.

### 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 through the on-line Review and Change process. 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 the Review and Change 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.

## 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 Secondary School Honour Graduation Diploma or 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. 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.

Many students may wish to present additional information for consideration by the Committee on Admissions. This may be information pertaining to their academic background, employment data, reasons for requesting admission or proposed program of study. This information should be submitted directly to Admission Services, Office of Registrarial Services, Level 3, University Centre, University of Guelph, Guelph, Ontario, N1G 2W1. If there is no additional information submitted, the decision of the Admissions Committee will be based strictly on academic performance as indicated on all official transcripts submitted.

### 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
- e. Ontario College of Art and Design

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://compass.ouac.on.ca.

### **Applying From Outside Canada**

Students applying from outside Canada are strongly advised to begin the application procedure 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:

 International applicants (including U.S. citizens) who do not intend to apply to another university within Ontario should complete the University of Guelph application form. This form is only available from Admission Services at http://www.uoguelph.ca/admissions/prospective/international/index.shtml. 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://compass.ouac.on.ca. 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 college Registrar for the appropriate application form. Applicants wishing to transfer from the University of Guelph-Humber to the University of Guelph should follow the process outlined at http://www.uoguelph.ca/admissions/admission/index.cfm?fuseaction=appform3.

### **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://www.uoguelph.ca/admissions/admission/index.cfm?fuseaction=appform3.

### **Articulation Agreements**

### **Alfred Campus**

### **Bachelor of Commerce - Hotel and Food Administration**

Graduates with a minimum grade point average of 3.0 (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 OAC 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 - Hotel and Food Administration**

The articulation agreement between the University of Guelph and Algonquin College provides an opportunity for graduates from the two-year Hotel and Restaurant Management Diploma program with a minimum grade point average of 3.0 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with 6.00 advanced standing credits. Applicants will be required to have completed an OAC credit or equivalent in Mathematics and English. Interested students should contact the Bachelor of Commerce program counsellor.

### Associate Diploma programs - University of Guelph

### **Bachelor of Commerce - 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 OAC 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. Upon admission to the degree program, credit will also be considered for any degree courses successfully completed while in the Diploma program.

#### Holland College - P.E.I.

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph and Atlantic Tourism and Hospitality Institute have signed an articulation agreement which will allow students graduating from the 2 year Hotel and Restaurant Management program with a minimum 3.0 (B+) cumulative grade point average and who have completed an OAC or equivalent course in Mathematics and English to be admitted to the Hotel and Food Administration major of the Bachelor of Commerce program with 10.00 transfer credits. Interested students should contact the Bachelor of Commerce program counsellor for further information.

### Canadore College

### **Bachelor of Commerce - Hotel and Food Administration**

The articulation agreement between the University of Guelph and Canadore College provides an opportunity for graduates from the three-year Hotel, Resort and Restaurant Administration program with a minimum grade point average of 3.0 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with 11.00 advanced standing credits. Applicants will be required to have completed an OAC credit or equivalent in Mathematics and English. Interested students should contact the Bachelor of Commerce program counsellor.

### **Centennial College**

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph will make up to five places available for admission into the Hotel and Food Administration major of the Bachelor of Commerce program for graduates of the three-year Hospitality and Tourism Administration program at Centennial College. Applicants must have a minimum 3.0 (B+) grade point average and have completed an OAC credit or equivalent in Mathematics and English. Upon admission, students will be granted 11.00 transfer credits towards the degree. Interested students should contact the Bachelor of Commerce program counsellor for further information.

### **Bachelor of Commerce - Marketing**

An articulation agreement between the Bachelor of Commerce program at the University of Guelph and the Co-op Marketing Diploma at Centennial College facilitates the transfer of students between the two institutions. Students are provided with the opportunity to complete the degree at the University of Guelph and the diploma from Centennial College. Applicants transferring from the College may begin their studies at the University commencing in the Winter semester, in the second year of the Marketing Management major. Interested students should direct their enquiries to the program counsellor for the Bachelor of Commerce program.

Conestoga College Institute of Technology and Advanced Learning

### Bachelor of Commerce - Agricultural Business, Housing and Real Estate Management, Hotel and Food Administration, Management Economics in Industry 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 OAC credit or equivalent in English and Calculus (or other OAC Mathematics for HAFA).

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 - Child, Youth and Family**

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 at least one course in Mathematics and another in 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.

#### **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. Applicants are required to possess OAC or equivalent credits in Mathematics, Biology, and English. 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.

The University of Guelph and Fanshawe College have signed an articulation agreement which will place up to ten students graduating from the three year programs in Environmental Technology and Environmental Science Laboratory Technology in the Bachelor of Science in Environmental Sciences program at Guelph. Applicants must have a minimum B+ (75%) grade point average. Successful applicants will receive, upon admission, ten (10.00) transfer credits. Details of the application process are available from the B.Sc. (Env.) program counsellor's office.

Interested students should contact the program counsellor for further information prior to submitting a formal application for admission.

## Georgian College Institute of University Partnerships and Advanced Studies

### **Bachelor of Commerce - Hotel and Food Administration**

The articulation agreement between the University of Guelph and Georgian College Institute of University Partnerships and Advanced Studies makes available up to five places for graduates of the three-year Hotel and Resort Administration program. Successful applicants with a minimum 3.0 (B+) grade point average who have completed an OAC credit or equivalent in Mathematics and English will be admitted with 11.00 transfer credits to the Hotel and Food Administration major of the Bachelor of Commerce program. Interested students should contact the Bachelor of Commerce program counsellor for further information.

### Humber College Institute of Technology and Advanced Learning

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph and Humber College Institute of Technology and Advanced Learning have signed an articulation agreement which will allow students graduating from the two-year Hospitality and Restaurant Management program with a minimum 3.0 (B+) grade point average and who have completed an OAC or equivalent Mathematics and English to be admitted to the Hotel and Food Administration major of the Bachelor of Commerce program with 6.00 transfer credits. Up to five places will be made available. Interested students should contact the Bachelor of Commerce program counsellor.

### **Kemptville Campus**

### **Bachelor of Commerce - Hotel and Food Administration**

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 OAC 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.

### La Salle College - Quebec

### **Bachelor of Commerce - Hotel and Food Administration**

The articulation agreement between the University of Guelph and La Salle College makes available up to five places for graduates of the two-year Foodservice and Restaurant Management and the two-year Hotel Management programs. Successful applicants with a minimum 3.0 (B+) grade point average who have completed an OAC credit or equivalent in Mathematics and English will be admitted with 7.50 transfer credits to the Hotel and Food Administration major of the Bachelor of Commerce program. Prospective applicants should contact the Bachelor of Commerce program counsellor for further information.

#### **Bachelor of Commerce - Hotel and Food Administration**

The articulation agreement between the University of Guelph and La Salle College makes available up to five places for graduates of the three-year Hotel and Restaurant Management program. Successful applicants with a minimum 3.0 (B+) grade point average who have completed an OAC credit or equivalent in Mathematics and English will be admitted with 7.50 transfer credits to the Hotel and Food Administration major of the Bachelor of Commerce program. Prospective applicants should contact the Bachelor of Commerce program counsellor for further information.

### Loyalist College

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph and Loyalist College have signed an articulation agreement which will allow students graduating from the two year Hotel and Restaurant Management program with a minimum 3.0 (B+) cumulative grade point average and who have completed an OAC or equivalent course in Mathematics and English to be admitted to the Hotel and Food Administration major of the Bachelor of Commerce program with 6.00 transfer credits. Interested students should contact the Bachelor of Commerce program counsellor for further information.

#### Niagara College

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph will make up to five places available for admission into the Hotel and Food Administration major of the Bachelor of Commerce program for graduates

of the two-year Hospitality program at Niagara College. Applicants must have a minimum 3.0 (B+) grade point average and have completed an OAC credit in Mathematics and English. Upon admission, students will be granted 6.00 transfer credits. Applicants are advised to contact the program counsellor for the Bachelor of Commerce program for additional information.

### Nipissing University

The Senate of Nipissing University has committed to admit no fewer than 20 Child, Youth and Family graduates from the Bachelor of Applied Science program at the University of Guelph to their Primary/Junior Bachelor of Education program. Applicants must have a minimum overall standing of B (75%) in the major. Interested students should contact Nipissing directly about admissions and preferred electives.

### Northern Alberta Institute of Technology

The articulation agreement between the University of Guelph and the Northern Alberta Institute of Technology (NAIT) will provide up to six places per year for graduates of the Landscape Architecture program at NAIT, with a minimum cumulative average of B (70%), to be considered for admission to the Bachelor of Landscape Architecture program at the University of Guelph. Applicants are required to possess OAC or equivalent credits in Mathematics, Biology, and English. Upon admission, students will receive 10.00 transfer credits.

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

### **Province of British Columbia**

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph will make available up to ten places annually for admission into the Hotel and Food Administration major of the Bachelor of Commerce program for graduates from the Province of British Columbia's two-year Hospitality Management Diploma programs at Camosun College, College of New Caledonia, University College of the Cariboo, Douglas College, Malaspina University College, North Island College, Okanagan University College, Selkirk College, and Vancouver Community College.

Applicants must have a minimum 3.0 (B+) cumulative grade point average and must have completed an OAC or equivalent course in Mathematics and English. Upon admission, students will be granted up to 10.00 transfer credits on the basis of having completed all college core courses as well as specified electives. Interested students should contact the Bachelor of Commerce program counsellor for further information.

### **Red River College**

#### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph and Red River Community College have signed an articulation agreement which provides an opportunity for the graduates from the two-year Hotel and Restaurant Administration program who have a minimum 3.0 (B+) cumulative grade point average and who have completed an OAC or equivalent course in Mathematics and English to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to 10.00 transfer credits. Interested students should contact the Bachelor of Commerce program counsellor for further information.

### **Redeemer College**

#### **Bachelor of Science**

The articulation agreement between the University of Guelph and Redeemer College makes available up to five places annually for students from Redeemer who have completed a minimum of two years of the science program with special emphasis in Chemistry and who have achieved a minimum B average on the University of Guelph grading scale. Applicants must be recommended by Redeemer College faculty for transfer. Students admitted with 10.00 or more credits from Redeemer may expect to graduate within two calendar years with an honours B.Sc. degree. Interested students should contact either the program counsellor for the College of Physical and Engineering Science or the Chair of the Department of Chemistry and Biochemistry.

#### Seneca College

#### **Bachelor of Commerce - Hotel and Food Administration**

The articulation agreement between the University of Guelph and Seneca College provides an opportunity for graduates from the Travel and Hospitality Option of the Travel and Tourism Studies Diploma program with a minimum grade point average of 3.0 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with 3.00 advanced standing transfer credits. Applicants must have completed an OAC credit or equivalent in Mathematics and English. Prospective applicants should contact the Bachelor of Commerce program counsellor.

#### **Bachelor of Commerce - Housing and Real Estate Management**

The articulation agreement between the University of Guelph and Seneca College provides an opportunity for students graduating from the Real Property Administration Diploma Program with a minimum grade point average of 3.5 (B+) to be considered for admission to the bachelor of Commerce, Housing and Real Estate Management major with a 5.0 advanced standing transfer credits. Applicants must have completed OAC or 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: Biological Research Technologist, Chemical Technology, Laboratory Technology-Industrial Biotechnology, Pharmaceutical (Chemical) Technology.

Students should contact the program counsellor for the College of Physical and Engineering Science for further information.

### **Bachelor of Science in Environmental Sciences**

The articulation agreement between the University of Guelph and Seneca College makes available up to ten (10) places per year for graduates of the three year program, primarily, but not exclusively, from the Chemical Technology Diploma program in the School of Biological Sciences and Applied Chemistry, Faculty of Technology. Seneca College graduates will have the option of entering the Earth and Atmospheric Sciences, Environmental Monitoring and Analysis, Environmental Protection, or Environmetrics majors in the Bachelor of Science in Environmental Sciences degree program.

Candidates require a minimum cumulative grade point average of B+ (75%) to be considered for admission. Applicants must possess the equivalent to OAC Calculus, Chemistry, Biology, and Physics. Upon admission students will be granted 10.00 transfer credits. Prospective applicants should contact the program counsellor for the B.Sc. (Env.) program for further information regarding choice of major and degree completion requirements prior to making a formal application for admission.

### Sir Sanford Fleming College

### **Bachelor of Science in Environmental Sciences**

The articulation agreement between the University of Guelph and Sir Sanford Fleming College makes available up to ten (10) places per year for graduates of the three year program, primarily, but not exclusively, from the Cartographic Technology, Ecosystem Management Technology, Fish and Wildlife Technology, Terrain and Water Resources Technology, Geotechnical Engineering Technology, and Minerals Engineering Technology programs. Sir Sanford Fleming College graduates will have the option of entering the Earth and Atmospheric Sciences, Ecology, Environmental Geography, Environmental Protection, or Natural Resources Management majors in the Bachelor of Science in Environmental Sciences degree program.

Candidates require a minimum cumulative grade point average of B+ (75%) to be considered for admission. Applicants must possess the equivalent to OAC Calculus, Chemistry, Biology, and Physics. Upon admission students will be granted 10.00 transfer credits. Prospective applicants should contact the program counsellor for the B.Sc. (Env.) program for further information regarding choice of major and degree completion requirements prior to making a formal application for admission.

#### Six Nations Polytechnic

The University of Guelph, along with four 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.

### St. Lawrence College

### **Bachelor of Commerce - Hotel and Food Administration**

The University of Guelph and St. Lawrence College have signed an articulation agreement which will allow students graduating with a minimum 3.0 (B+) grade point average from the two-year Hotel and Restaurant Management program to be admitted to the Hotel and Food Administration major of the Bachelor of Commerce program with 5.00 advanced standing transfer credits. Applicants must have completed an OAC credit or equivalent in Mathematics and English. Interested students should contact the Bachelor of Commerce program counsellor.

### **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 addresses supplied by the applicant to communicate decisions. 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, if they have not applied to a limited enrolment program. All 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 Admissions Committee for the degree program to which the student is admitted. Official final transcripts will be required by the University of Guelph 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 Bachelor of Landscape Architecture program and the D.V.M. Program will not be made until after the deadline date for receipt of applications and documentation. Decisions will be communicated to applicants approximately one month after that date.

### **Co-operative Education**

Students will be considered for admission to semester one of the Co-operative Education program upon completion of the Ontario Secondary School Diploma, including six OACs, grade 12 U and/or grade 12 U or 12M courses (or equivalent). Normally, an average of 75% 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. Applicants to the Co-operative Education programs must have Permanent Resident status in Canada or be a Canadian citizen. Applicants who are U.S. citizens should contact Co-operative Education and Career Services.

Specific subject requirements for admission to the various degree programs are outlined following this 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 the form 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. 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.

PROGRAM & MAJOR FALL SEMESTER	APPLICATION DEADLINE	DOCUMENT DEADLINE
B.L.A.	March 1	April 15 - Portfolio/B.I.F. May 15 - Transcripts
D.V.M 2007	February 1	May 15 - B.I.F. June 15 - Documents
D.V.M 2008	February 1	May 15 - B.I.F. May 15 - References May 15 - MCAT Scores June 1 - Transcripts
D.V.M 2009	January I	January 1 - MCAT Scores March 1 - B.I.F. March 1 - References March 1 - Transcripts (A minimum of four full-time semesters (two full-time years) including D.V.M. admission course requirements must be completed before December 31, 2008)
International D.V.M.	December 1	February 1
DTM	January 15	February 15
All other programs and major areas of study	May 1	June 1

APPLICANTS SHOULD NOTE THAT THESE ARE FIRM DEADLINE DATES AND EXTENSIONS WILL NOT NORMALLY BE GRANTED.

### **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 less 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. 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 to the left. 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 AND Test of Spoken English (TSE) - 50. For 2005-2006, 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. The TOEFL Bulletin of Information and registration form can be obtained by writing or contacting TOEFL/TSE Publications, P.O. Box 6154 Princeton, New Jersey 08541-6154, USA; telephone (609)771-7100; email toefl@ets.org; Website (http://www.toefl.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, Anglia Polytechnic University, East Road, Cambridge CB1 1PT, Great Britain (telephone (01223) 363271; facsimile(01223) 352973; email j.m.ferra@anglia.ac.uk); http://www.ielts.org/.

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

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

Information on the MELAB is available at http://www.lsa.umich.edu/eli/melab.htm.

Applicants can request Information Bulletins and Registration forms from English Language Institute, Testing and Certification Division, 3020 North University Building, The University of Michigan, Ann Arbor, Michigan 48109-1057, USA (telephone (734) 763-3452; facsimile(734) 763-0369; Website http://www.lsa.umich.edu/eli/).

#### 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/

### **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 three (3) 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 subject requirements, or equivalents, and their 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 following section.

For some programs, performance in specific required courses or portfolios 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

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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 a Letter of Permission from the Registrar, Dean or program supervisor of the home institution authorizing a program selection.

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 Undergraduate Program 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 ever registered at the University of Guelph should apply online as a Non-Degree Internal Transfer Student. All post-degree applicants must submit the Supplementary Information Form for Degree Holders.

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

#### Second Degrees

Students from the University of Guelph or from another university may 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 at the time of admission into the continuing category.

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

### **Prior Learning Assessment**

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

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

Students should contact Undergraduate Program 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.
- They have graduated from this University and wish to register for additional courses.
   They registered in a program at another post-secondary institution and wish to return to the University of Guelph.
- 5. They have not registered at the University of Guelph for six or more consecutive semesters.
- 6. They are attending the University of Guelph on a letter of permission and wish to continue past the term of the letter of permission agreement.

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

Students apply for readmission online via the Ontario Universities' Application Centre as an Internal Transfer/Readmission student. An application fee is payable at the time the a p p l i c a t i o n i s s u b m i t t e d . R e f e r t o http://www.uoguelph.ca/admissions/prospective/intransfer/index.shtml for further information.

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

- 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.
- 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.
- 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 quota, 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 Admissions 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 Admissions 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://www.uoguelph.ca/admissions/index.shtml

### 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, it is expected that some applicants may still present both OACs and Grade 12U and 12M 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 Calculus and 12U Advanced Functions and Introductory Calculus). The Non-Academic component of grade 12U/M co-op courses is not accepted as a contribution to admission requirements. Out of province applicants should visit http://www.uoguelph.ca/admissions/outofprov for applicable subject requirements. Students applying with educational credentials obtained outside of Canada should consult http://www.uoguelph.ca/admissions/equivalency.

#### **Bachelor of Applied Science--B.A.Sc.**

### Child, Youth and Family; Adult Development, Familes and Well-being

OSS Curriculum: ENG 4U; 1 credit in a 4U Mathematics; SBI 4U or SCH 4U; 3 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Mathematics; 1 credit in Chemistry or Biology; 3 additional credits.

### **Applied Human Nutrition**

OSS Curriculum: ENG 4U; 1 credit in a 4U Mathematics; SBI 4U; SCH 4U; 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Mathematics; 1 credit in Chemistry; 1 credit in Biology; 2 additional credits.

#### **Recommendations and Notes:**

- 1. Applicants are strongly advised to include MCB 4U or OAC Calculus in their programs of study.
- Students selecting a major in Child, Youth and Family or Adult Development, Families and Well-being should include Biology at the Grade 4U level or OAC.

#### **Bachelor of Arts--B.A.**

OSS Curriculum: ENG 4U; 5 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements - 1 credit in English I; 5 additional 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.
- Students planning on entering programs in the Social Sciences, Mathematical Sciences and Computing and Information Science are strongly advised to include one or more Mathematics courses, such as Calculus.

#### **Bachelor of Arts and Sciences--B.A.S.**

OSS Curriculum: ENG 4U; MCB 4U; 2 4U credits from SBI 4U, SCH 4U, SPH 4U or MGA 4U; 1 4U or 4M Arts or Social Science; 1 additional 4U or 4M credit.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 2 credits from Biology, Chemistry, Physics, Algebra and Geometry; 1 credit from Arts/Social Science; 1 additional credit.

#### Bachelor of Bio-Resource Management--B.B.R.M.

OSS Curriculum: ENG 4U; SBI 4U; 4 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in OAC English, 1 credit in Biology, 4 additional credits.

1. All applicants are encouraged to include a 4U Math.

#### **Bachelor of Commerce--B.Comm.**

#### Agricultural Business, Management Economics in Industry and Finance, Marketing Management

OSS Curriculum: ENG 4U; MCB 4U; 4 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 4 additional credits.

### Hotel and Food Administration, Real Estate and Housing, Human Resources Management, Public Management, Tourism Management

OSS Curriculum: ENG 4U; 1 credit in a 4U Mathematics; 4 additional 4U or 4M credits. OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Mathematics; 4 additional 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. Any 4U or OAC Mathematics credit is acceptable. The application 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 Management: If available, students are encouraged to include Economics and/or Administrative or Organizational Studies and/or Accounting among their 4U or 4M or OAC credits.
- 3. Real Estate and Housing: Calculus is recommended.

### Bachelor of Computing--B.Comp.

OSS Curriculum: ENG 4U; MCB 4U; 4 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 4 additional 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.

OSS Curriculum: ENG 4U; SBI 4U; 1 4U credit in Mathematics; 1 credit from a 4U or 4M Geography, Visual Arts, French, a Level 4 International Language or a Level 3 Classical Language; 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Biology; 1 credit in Mathematics; 1 credit from Geography, Visual Arts, French or Français or another language; 2 additional credits.

### **Recommendations and Notes:**

 Students are strongly advised to include Chemistry or Physics in their program of studies. Applicants are considered on the basis of academic performance, a review of a Background Information Sheet and portfolio. Application forms must be received by March 1. Please refer to the deadline dates for the Background Information Form, portfolio and transcripts at the end of this chapter under the heading Deadline Dates

 Advanced Standing, Non-Degree and Limited Enrolment Programs.

### **Bachelor of Science--B.Sc.**

OSS Curriculum: ENG 4U; MCB 4U; 2 4U credits from SBI 4U, SCH 4U, SPH 4U, or MGA 4U; 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 2 credits from Biology, Chemistry, Physics, Algebra and Geometry; 2 additional credits.

### **Recommendations and Notes:**

It is highly recommended that students select one of the two additional credits bearing in mind:

- 1. Their eventual specialization.
- Regulation I on Introductory Courses, Section IX-B.Sc. Applicants who lack one specific 4U or OAC 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 or OAC credits: Biology, Physics and Chemistry.
- Applicants to Biological, Food and Nutritional and Nutraceutical Sciences are advised to include Biology, Chemistry and Physics among their 4U or OAC credits.
- 5. OAC Algebra & Geometry or MGA 4U, Chemistry and Physics are strongly recommended for Mathematical, Computer and Physical Sciences.

### Bachelor of Science in Agriculture--B.Sc. (Agr.)

OSS Curriculum: ENG 4U; MCB 4U; 2 4U credits from SBI 4U, SCH 4U, SPH 4U, or MGA 4U; 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 2 credits from Biology, Chemistry, Physics, Algebra and Geometry; 2 additional credits.

### **Recommendations and Notes:**

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

### Bachelor of Engineering--B.Eng.

OSS Curriculum: ENG 4U; MCB 4U; 2 4U credits from SBI 4U, SCH 4U or SPH 4U; 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 2 credits from Physics, Chemistry, Biology; 2 additional credits.

### **Recommendations and Notes:**

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

### Bachelor of Science in Environmental Sciences--B.Sc. (Env.)

OSS Curriculum: ENG 4U; MCB 4U; 2 4U credits from SBI 4U, SCH 4U, SPH 4U, 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 2 credits from Physics, Chemistry, Biology; 2 additional credits.

### **Recommendations and Notes:**

- 1. To be best prepared for semester 1 of the program, all applicants are advised to include 4U or OAC Biology, Chemistry, and Physics.
- 2. Students interested in Environmental Geography or Natural Resources Management should consider 4U or OAC 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 admissions counsellor. This deficiency must be resolved in the first year of the program.

### Bachelor of Science in Technology--B.Sc. (Tech.)

OSS Curriculum: ENG 4U; MCB 4U; 2 4U credits from SBI 4U, SCH 4U, SPH 4U or MGA 4U; 2 additional 4U or 4M credits.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English I; 1 credit in Calculus; 2 credits from Biology, Chemistry, Physics, Algebra and Geometry; 2 additional credits.

### **Recommendations and Notes:**

- 1. It is highly recommended that students interested in the Physics and Technology program take MGA 4U or OAC Algebra and Geometry and SPH 4U.
- 2. It is highly recommended that students interested in the Pharmaceutical Chemistry program take 4U or OAC Chemistry.

### 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 2009 Entry.

To be eligible to apply for September 2009 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, 2008.

The earliest time at which applicants may apply for 2009 admission to the D.V.M. Program is during third year of their first undergraduate degree program. Please refer to 2009 D.V.M. application and required document deadline dates at: http://www.ovc.uoguelph.ca/Undergrad/potential/admission.shtm

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

All courses must be at university level. Applicants should consult the list of acceptable University of Guelph courses and subject areas online at http://www.ovc.uoguelph.ca/Undergrad/potential/admission.shtm. 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 for 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 are May 15, 2008 for September 2008 D.V.M. entry and January 1, 2009 for September 2009 D.V.M. 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/students/mcat/

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 residents of Quebec.

#### **International Applicants**

International students are admitted to the D.V.M. Program. Applicants must not hold Canadian citizenship or permanent resident status in Canada. Normally, a maximum of five international seats will be available in any one year.

The application deadline date for international applicants is December 1st, for September entry to the D.V.M. Program.

#### Selection Criteria

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

#### 1. Academic Achievement and Aptitude

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

#### 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, pharaceutical), 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 required from three persons qualified to give 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 fulfillment 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' attitudes 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 numeric data and use appropriate tools 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 involves an understanding of self-awareness, of self-esteem, of feelings and emotions, the development of listening skills and the willingness to disclose oneself truthfully and freely. Good communication also requires an understanding of principles of language and verbal interaction, principles of non-verbal communication, and of interpersonal communication and relationships (relationship development and deterioration, improvement of interpersonal communication, conflict management, interviewing skills etc.)

Students entering the D.V.M. Program will be able to: listen respectfully and 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

Please refer to Essential Skills and Abilities required for the Study of Veterinary Medicine a t :

### http://www.ovcuoguelphca/Undergrad/potential/Admissions/documents/OVCAdmissionsPolicyDocument/May/2006.pdf/ 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://www.uoguelph.ca/admissions/internal. All other domestic applicants must apply using the Ontario Universities Application Centre by accessing the computerized application service http://compass.ouac.on.ca.

International applicants should apply through the Veterinary Medical College Application Service (VMCAS). For further details see http://aavmc.org/vmcas/vmcas.htm. Alternatively, international applicants can apply using the University of Guelph International Application found at http://www.uoguelph.ca/admissions/download/index.shtml.

#### **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 February 1, 2008.

Commencing in 2009 the application deadline date will be January 1st. Please refer to deadline dates for supporting documentation including MCAT scores, references, official transcripts and the Background information Form at: Association of American Medical Collegeshttp://www.ovc.uoguelph.ca/Undergrad/potential/admissions/.

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.

### Admission with Advanced Standing

Applications for admission to advanced semesters will be considered from students who have been enrolled in D.V.M. Programs at other institutions, subject to the availability of places in the D.V.M. Program and the academic standing of the candidate. In no case will admission be considered beyond the fifth semester. When places are available, candidates may be asked to present themselves for interview and may be asked to pass examinations on subject matters in the veterinary curriculum. Applicants are advised that *vacancies are rare*. The application deadline date for advanced standing applicants is February 1st for 2008 and January 1st for 2009.

#### **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**

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

Bachelor of Applied Arts

Media Studies

Bachelor of Applied Computing in Distributed Computing and Communication Systems Technology

Bachelor of Applied Science

Early Childhood Services

Family and Community Social Services

Gerontology

Justice Studies Bachelor of Business Administration

### Bachelor of Applied Arts--B.A.A.

#### **Media Studies**

The Bachelor of Applied Arts program is an integrated degree-diploma program offered only at the University of Guelph-Humber campus.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English; 5 additional credits.

New OSS Curriculum: 1 Grade 12U English; 5 additional Grade 12U or 12M credits.

#### **Recommendations and Notes:**

Non-Academic Requirements include an interview, a portfolio evaluation, and a writing test.

### **Bachelor of Applied Computing in Distributed Computing and Communication Systems Technology--B.A.Comp. (D.C.C.T.)**

The Bachelor of Applied Computing in Distributed Computing and Communication Systems Technology program is an integrated degree-diploma program offered only at the University of Guelph-Humber campus.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English; 1 credit in Calculus; 4 additional credits.

New OSS Curriculum: Grade 12U English; Advanced Functions and Introductory Calculus; 4 additional Grade 12U or Grade 12M credits.

#### **Recommendations and Notes:**

Applicants are encouraged to include an additional math credit in their program of study.

**Bachelor of Applied Science--B.A.Sc.** 

#### Early Childhood Services

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English, 1 credit in Mathematics, 1 credit in Science; 3 additional credits

New OSS Curriculum: Grade 12U English; 1 Grade 12U Mathematics; 1 Grade 12U Science; 3 additional Grade 12U or Grade 12M credits

#### Recommendations and Notes:

Applicants are strongly advised to include Biology in their program of study.

#### Family and Community Social Services

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English; I credit in Mathematics; 4 additional credits

New OSS Curriculum: Grade 12U English; 1 Grade 12U Mathematics; 4 additional Grade 12U or Grade 12M credits

### Gerontology

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English; 1 credit in Mathematics; 1 credit in Biology or Chemistry; 3 additional credits New OSS Curriculum: 1 grade 12U English, 1 grade 12U mathematics, 1 Grade 12U Biology or Chemistry; 3 Additional grade 12U or grade 12M credits

#### **Recommendations and Notes:**

Applicants are advised to include Biology among their Grade 12 credits.

#### Justice Studies

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English; I credit in Mathematics; 4 additional credits

New OSS Curriculum: 1 grade 12U English; 1 Grade 12U mathematics; 4 additional Grade 12U or Grade 12M credits

#### **Bachelor of Business Administration--B.B.A.**

The Bachelor of Business Administration program is an integrated degree-diploma program offered only at the University of Guelph-Humber campus.

OAC Curriculum: Ontario Academic Course Credit Requirements: 1 credit in English; 1 credit in Mathematics; 4 additional credits.

New OSS Curriculum: Grade 12U English; 1 credit in Grade 12U Mathematics; 4 additional Grade 12 U or Grade 12M credits.

#### **Recommendations and Notes:**

Applicants are strongly advised to include Advanced Functions and Introductory Calculus in their program of study.

### **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. Applications with incomplete documentation after the document deadline date will not receive consideration.

- Ontario Secondary School Diploma or equivalent Senior Matriculation Certificates, (i.e. 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, nursing, etc.
- 4. Transcript of marks from the last secondary school attended.
- 5. Any other documents demonstrating academic results or ability, or explaining the level of academic performance.
- 6. Any supplementary information required as part of the application.

### Use of Animals in Teaching

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

## V. International Study

### **Exchange Programs**

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

Australian International Hotel School Curtin University Deakin University Edith Cowan University Griffith University James Cook University La Trobe University University of Adelaide University of Canberra University of Sydney tria

### Austria

Universität für Bodenkultur Wien (BOKU) University of Innsbruck

M C to I

Management Centre Innsbruck

### Caribbean

University of the West Indies

### Denmark

• University of Copenhagen

Royal Veterinary and Agricultural University

#### England

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

#### Fiji

University of the South Pacific

#### Finland

Lahti Polytechnic

#### France

Ecole Supérieure de Commerce et de Management - Tours et Poitier Institut d'Etudes Politiques (L'IEP) - Lyon II Institutions in the Rhône-Alpes region Pierre Mendès France University, Grenoble II University of Savoie at Chambéry University of Montpellier II Germany University of Freiburg University of Tübingen University of Tübingen University of Karlsruhe University of Heidelberg

University of Konstanz

University of Rostock

University of Mannheim

University of Stuttgart

### Ghana

University of Ghana Hong Kong

Lingnan University

Iceland .

University of

University of Iceland

University of Akureyri

Agricultural College at Holar Agricultural College at Hvanneyri

### Italv

### University of Udine Malaysia Universiti Sains Malaysia Malta University of Malta Mexico Instituto Tecnologico y de Estudios Superiores de Monterey (ITESM) Netherlands Wageningen University Maastrict University New Zealand Lincoln University Massey University Norway Agricultural University of Norway Scotland Heriot Watt University University of Aberdeen University of Stirling University of Strathclyde South Africa University of KwaZulu-Natal Spain University of La Rioja

University of Málaga Swaziland

University of Swaziland

Sweden

Swedish University of Agricultural Sciences

#### Lund University USA

Bowling Green State University

### 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 to 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 **Universite 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.

Francophone students 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.

### **Study Abroad Programs**

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

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

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

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

For information on these or other work or study abroad options, please contact 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 15<sup>th</sup> for the Fall semester, January 31<sup>st</sup> for the Winter semester and June 15<sup>th</sup> 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:

- a. release of semester examination results
- b. release of transcripts
- c. granting of a degree or diploma

d. 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/studfin/ug/index.cfm.

**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 studentsvisittheStudentFinancialServiceswebsiteat:http://www.uoguelph.ca/studfin/ug/index.cfm.

#### 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/studfin/ug/index.cfm.

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**

 $For information \ on \ current \ Co-operative \ Education \ fees, visit \ the \ Student \ Financial \ Services \ website \ at: \ http://www.uoguelph.ca/studfin/ug/index.cfm$ 

#### **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** enrolment 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/studfin/ug/index.cfm.

### 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 four (4) 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 carried forward to the **Carryover Ultra Food Plan.** 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/studfin/ug/index.cfm. 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**

Information on Parking Fees is available at the Student Financial Services website http://www.uoguelph.ca/studfin/ug/index.cfm.

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

### **Prior Learning Assessment**

Application Fee	\$50.00
A fee will be charged for each application to challenge a	
course, irrespective of the number of courses specified	
in the application.	

Course Fee	1/2 of the tuition fee for the
Students who are permitted to challenge a course will be charged a fee for the course, regardless of whether or not	
the challenge is successful.	

### Refunds

### Withdrawal

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

If the withdrawal or credit drop results in a credit balance in your fees account (i.e. payments are greater than charges) a refund cheque is produced. 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.

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

Class Days	Refund Rate
1 - 5 inclusive	100%
6 - 10 inclusive	75%
11 - 15 inclusive	65%
16 - 20 inclusive	50%
21 - 25 inclusive	35%
26 - 30 inclusive	20%
31 and beyond	nil

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, 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-operative 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 Central Student Association 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 to 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 C.S.A. 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.

Food Bank Affordable Housing, must approach the CSA office for refund.

### 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 Fees**

Information on Residence Fees is available at the Student Financial Services website http://www.uoguelph.ca/studfin/ug/index.cfm.

For Information regarding Student Housing Services visit the Student Housing Services website http://www.housing.uoguelph.ca/home.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. Rates are for unfurnished units and include utilities (except telephone), parking, and satellite TV.

### **Special University Fees**

The following Special University Fees are charged on a user-fee basis as outlined below:Account Deferral Fee\$60.00 per occurrenceB.L.A. Student Society Fee\$50.00 per semester

D.L.A. Student Society Fee	\$50.00 per semester
Cheque Refusal Fee For each cheque upon which payment is refused by the bank on which it is drawn.	\$60.00 per cheque in the amount of \$435.00 or greater upon which payment is refused (\$30.00 per cheque in the amount of less than \$435.00).
<b>Cheque Processing Fee</b> Applied to students receiving short term loans or OSAP advances.	\$20.00 per occurrence
Distance Education Resource Fee Non-refundable after the six-day add period.	\$70.00 per D.E. course

Equipment Fund for D.V.M. Charged to semester 1,3,5,7 students	\$50.00
Equipment Fund for B.ENG. Charged per full-time semester	\$40.00
<b>Graduation Fee</b> Payable at time of submission of application for graduation.	\$32.00
<b>Late Graduation Fee</b> Payable at time of submission of a late application for graduation.	\$60.00
Late Registration Fee 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.	\$60.00 per occurrence
Official Transcript	\$8.00 each copy
OAC Lab Fee	\$25.00 per semester
<b>Program Transfer Fee</b> For each applicant requesting a transfer from one degree program to another, or readmission.	\$40.00 per occurrence
<b>Registration Reinstatement Fee</b> 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 15 <sup>th</sup> for the Fall semester, January 31 <sup>st</sup> for the Winter semester and June 15 <sup>th</sup> for the Summer semester.	\$200.00 per occurrence for full-time students \$100.00 per occurrence for part-time students
Supplemental Privilege Students who write supplemental examinations at an outside centre may be required to pay an invigilator fee directly to that centre. Notification of non-payment will result in the withholding of grades.	\$50.00 per occurrence
<b>Note:</b> If the student pays the fee for the supplemental priv not to write it, a refund will be made if the request is sub days prior to the scheduled date of the supplemental to Um. Office of Registrarial Services. <i>No refunds will be made</i> <i>which were to be written at another university or college</i> <i>student.</i>	mitted in writing at least 15 dergraduate Programs Services, for fees paid for examinations

### 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 Faculty Advisors, who focus on subject-related issues and advice, and a Program Counsellor, who assists with degree program requirements and expectations.

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 students 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
- to seek, when necessary, advice and assistance regarding academics from the program counsellor or faculty advisor
- to contact the program counsellor or faculty advisor for 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 A c a d e m i c Information Centre website at http://www.uoguelph.ca/uaic/program\_counsellors.shtml.

### **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
- to refer to other campus services, as necessary
- to 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
- to 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
- to assist students wishing to change or add specializations

- to approve the declaration of the specialization to the student's degree program and to sign specialization approval
- · to assist the student to make academic decisions
- · to refer students to the program counsellors, as appropriate
- to offer advice about meeting the requirements of the Schedule of Study for the specialization
- · to be reasonably available to meet with students, as requested
- · to assist with graduation checks, as requested
- · to approve substitutions or exemptions for the specialization
- to be aware of career and graduate study opportunities related to the field of study, or refer appropriately
- to assist with course selection issues related to the specialization
- to provide information to the department, curriculum committee, program committee, and program counsellor about issues or concerns concerning the Schedule of Studies for the specialization
- to 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/program\_counsellors.shtml.

### **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
- to refer to other campus services, as necessary
- to 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
- to 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
- to assist the student to make academic decisions and understand the implications of those decisions
- to assist with course selection and enrolment management issues as related to the degree program
- to explain transfer procedures and requirements
- to explain appeal procedures
- · to assist with graduation checks
- to sign program approval, as appropriate
- · to change student type, as appropriate
- · to meet with students as requested, or required
- to refer to the faculty advisor, as appropriate
- to uphold the academic policies of the university
- to help interpret the academic policies and procedures to students, staff, and faculty
- to act as a source of referral to other campus services
- to be generally aware of career and graduate study opportunities related to the field of study, or refer appropriately
- to work closely with the faculty advisor on any changes to the Schedule of Studies
- to consult, as necessary, with other campus services
- to provide relevant information to the faculty advisors, departments, dean, curriculum and program committees (and sub-committees) about student issues with the degree program
- to 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 program issues. Centre staff 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 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 about changing or adding a specialization, or transfer to a different degree program will 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 <u>without</u> obtaining program counsellor approval.
- 2. Students who wish to make a change to their specialization (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).

## VIII. Undergraduate Degree Regulations and Procedures

## **General Information**

The academic regulations outlined in VIII--Undergraduate Degree Regulations and Academic Consideration, Appeals and Petitions

## Process for Academic Consideration and Appeals

Procedures are the basic regulations for undergraduate degree programs of the University as approved by the Senate. Terminology used to describe academic regulations is defined in the Glossary. In these regulations where the consent of the dean is required, the term "dean" is interpreted to mean the person responsible for the academic program, for example dean, director, chair of program committee, or the program counsellor in a particular degree program.

Time of Semester	Type of Consideration	Consideration Granted By	Period of Consideration	Subsequent Appeal To		
During the Semester (up to course grade submission deadline)	Medical Psychological Compassionate	Instructor	Same semester	Academic Review Sub-Committee Submitted as soon as possible, not later than the end of the following semester		
End of Semester (following course grade submission deadline)	Medical Psychological Compassionate	Academic Review Sub-Committee (consult with program counsellor)	Should be submitted as soon as possible	Petitions Committee 90 day deadline for appeals of academic review decisions		
After the Semester	Grade Reassessment:	Grade Reassessment:				
	Calculation Error or omission	Instructor	10 class days of the following semester	No appeal		
	Methods and Criteria	Department Chair	10 class days of the following semester	Petitions Committee 10 days after decision of chair		
	Misapplication of an Academic RegulationInstructorShould be ini as possible		Should be initiated as soon as possible	First Level: Department Chair Second Level: College Dean Third Level: Provost		
	Academic Consideration:					
	Course Results: Compassionate Medical Psychological	Academic Review Sub-Committee (consult with program counsellor)	No deadline, but a request should be submitted during or immediately after the semester	Petitions Committee 90 day deadline for appeals of academic review decisions		
	Request for Probationary Status	Academic Review Sub-Committee (consult with program counsellor)	Should be submitted by the first deadline of the next semester	Petitions Committee 90 day deadline for appeals of academic review decisions		

## **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 Last Revision: January 28, 2008

and locations can be found in Section VII - Academic Advising). It is the student's responsibility to consult the program counsellor as soon as extenuating circumstances affect academic performance, in order to initiate action, and provide any required documentation.

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

## **Grounds for Academic Consideration**

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

## 1. Medical Grounds

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

When the absence affects final examinations or final assignments the student should go to Student Health Services or a personal physician for documentation. The student must present the medical documentation to the program counsellor.

#### 2. Psychological Grounds

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

#### 3. Compassionate Grounds

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

## **Incomplete Course Work**

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

- a. the student feels that appropriate consideration has not been granted by the instructor, or
- 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 a mutually agreeable 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 <u>not</u> 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 can be found in Section III--Schedule of Dates.

## Instructor's Responsibilities

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

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

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

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

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

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

## **Co-operative Education Appeal Process**

The Co-operative Education program requires that a student achieve an overall average of 70 percent during first year in order to continue in the program. An appeal option is available to students who are removed from co-op for not meeting the requirement. The appeal must be taken to the Program Counsellor who will then take it to the Academic Review Committee for consideration.

#### Petitions

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

- Appeals of decisions of Academic Review Sub-Committees involving medical, psychological or compassionate grounds. Petitions has 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 and that 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 should reschedule the examination to another time during the 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.uoguelph.ca/hre/hr/hrholydays.shtml or contact the Human Rights and Equity Office.

## Academic Load

#### **Full-time**

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

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

#### **Part-time**

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

## **Academic Misconduct**

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

The University takes a serious view of academic misconduct and will severely penalize students, faculty and staff who are found guilty of offences associated with misappropriation of others' work, misrepresentation of personal performance and fraud, improper access to scholarly resources, and obstructing others in pursuit of their academic endeavours. In addition to this policy, the University has adopted a number of policies that govern such offences, including the policies on Misconduct in Research and Scholarship and the Student Rights and Responsibilities regulations. These policies will be strictly enforced.

It is the responsibility of the University, its faculty, students and staff to be aware of what constitutes academic misconduct and to do as much as possible through establishment and use of policies and preventive procedures to limit the likelihood of offences occurring. Furthermore, individual members of the University community have the specific responsibility of initiating appropriate action in all instances where academic misconduct is believed to have taken place. This responsibility includes reporting such offences when they occur and making one's disapproval of such behaviour obvious.

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

## **Education and Remediation**

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

about academic integrity places a particular responsibility on faculty, especially with respect to discipline-specific issues.

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

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

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

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

## Offences

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

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

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

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

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

#### 1. Misappropriation of Other's Work

#### 1. Plagiarism

Plagiarism is misrepresenting the ideas, expression of ideas or work of others as one's own. It includes reproducing or paraphrasing portions of someone else's published or unpublished material, regardless of the source, and representing these as one's own thinking by not acknowledging the appropriate source or by the failure to use appropriate quotation marks. In addition to books, articles, papers and other written works, material may include (but is not limited to): literary compositions and phrases, performance compositions, chemical compounds, art works, laboratory reports, research results, calculations and the results of 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<sup>1</sup>.

#### 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).

#### 3. Unauthorized Co-operation or Collaboration

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

<sup>1</sup> In addition to being concerned about appropriate citation, students who wish to use the work of others, from any source, should be aware of copyright laws and other conventions governing intellectual property. See the Office of Research website, www.uoguelph.ca/research/policies/index.shtml, 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.
- 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:

- 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 c a n b e f o u n d a t 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

- Deans may delegate their authority under this policy to an appropriate designate(s). Such delegation may be full (for example, all cases are delegated to an Associate Dean), or partial (for example, authority with respect to offences related to course work may be delegated to departmental chairs). Deans must provide the University's Judicial Officer with the name(s) of individual(s) to whom authority has been delegated under this policy.
- 2. For offences related to course work (including examinations):
  - a. The designate or the Director of Open Learning will carry out the role of the 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 designate has a conflict of interest in dealing with a case, the dean may appoint an alternate designate or choose to deal with the case himself/herself. In the case of a conflict of interest on the part of a dean, the Provost will appoint a designate to deal with the case.
- 5. Wherever in this policy it states that a student is to be contacted, the normal expectation is that such contact will be made using the student's University of Guelph email account, with a copy of any correspondence being sent to the home address provided to the University by the student.

## **B.** Detection and Documentation

#### 1. Examinations

The responsibility for preventing and detecting academic misconduct in an examination lies with the invigilators, although they make use of reports from others to assist them in detection. In cases of suspected impersonation, the chief invigilator shall require the student concerned to remain after the examination until the student is satisfactorily identified. In other cases of suspected academic misconduct, the chief invigilator shall allow the student to complete the examination, but:

- may require that the student complete the examination in another location or setting when it is deemed that such action will cause the least disruption of those taking the examination; and
- shall confiscate any suspect material (including those portions of the examination completed to that point) and give it, along with the student's other examination booklet(s) (collected at the end of the exam) to the instructor immediately following the examination.

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

#### 2. Term assignments, including research and thesis work

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

3. Cases outside the domain of examinations or assignments

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

#### C. Investigation and Judgment

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

- a. When an instructor or an advisor suspects that an academic offence has been committed, he/she is responsible for gathering evidence to support or allay the suspicion and may invite the student to meet with him/her to discuss the concerns. The instructor/advisor should pursue the gathering of evidence in a timely way. The normal expectation for assignments due within the semester is that instructors/advisors will complete their evidence gathering within ten working days of the due date for the assignment. For assignments submitted at the end of the semester or during the examination period, the instructor has until the tenth day of the subsequent semester to collect the evidence and determine whether to pursue a case. In a case where an instructor/advisor requires substantial additional time to collect and review the evidence, he/she may seek an extension of time from the chair.
- b. If after reviewing the available evidence the instructor/advisor believes an offence may have been committed, he/she shall refer the case to the chair of the department responsible for the course or graduate program. The referral document will include all evidentially material collected by the instructor/advisor along with the transmittal form on which the instructor/advisor may include a recommendation with respect to penalty should the allegation be upheld. A copy of the first page of the transmittal form shall be sent to 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/dean's designate, normally within ten working days of receipt of the allegation from the instructor/advisor.
- d. Normally within ten working days of receipt of the case from the chair, the dean will invite the student to meet with him/her to discuss the allegation(s). If the student does not respond within ten working days to the request for an interview, or if the student refuses to attend an interview, the dean may proceed with the case. The student may be accompanied at the meeting by a support person. Prior to meeting with the student, the dean may consult with any individuals he/she believes pertinent to the case. At the meeting, the student will be presented with the evidence collected by the dean to that point. Based on the student's response to the evidence, the dean may engage in further consultation with any individuals he/she deems pertinent to the case. The student will be informed of any other evidence gathered as a result of those consultations and be given an opportunity to respond prior to the dean's reaching a decision on the case
- e. If after weighing the available evidence the dean finds an offence has been committed, the dean will contact 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.<sup>2</sup>

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 rescinding/revocation of a degree, the recommendation will be forwarded to the President. If the President does not confirm the recommendation of rescinding/revocation of a degree, the President may impose a lesser penalty, which will be final. If the President confirms the recommendation, the recommendation will be forwarded to Senate for final decision with respect to revocation/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 meeting with the student, the dean may meet with any individuals or collect evidence as he/she deems pertinent to the case. At the meeting, the student will be presented with the evidence, if necessary the dean may consult with any other individuals he/she deems pertinent to the case. The student will be informed of any other evidence gathered as a result of those consultations and be given an opportunity to respond prior to the dean's reaching a decision on the case.
- c. If after weighing the available evidence the dean finds that an offence has been committed, the dean will contact Undergraduate Program Services/Graduate Program Services as appropriate to determine whether this is a first offence. The dean may impose penalties in accordance with Penalties A. and B., above. In the event that the dean believes suspension, expulsion or revocation to be warranted, he/she shall proceed as in Procedures C.1. (h) and (i).
- d. Normally within ten days of meeting with the student, or of the final communication with the student with respect to evidence, the dean shall inform the student in writing of his/her decision in the case, and copy the letter to the relevant university officials, including Undergraduate Program Services/Graduate Program Services (as appropriate). In a case where the dean requires substantial additional time to gather evidence and make a judgment, he/she may seek an extension from the Provost and Vice-President Academic.

#### Appeals

- 1. Students may appeal either the finding, the penalty, or both to the Senate Student Petitions Committee.
- 2. Appeals must be submitted to the Senate Student Petitions Committee within 15 working days of receipt of the decision. If the decision is mailed, it will be deemed to have been received by the student the fifth day after it has been mailed. If the decision is sent by courier, fax or email it shall be deemed to have been received one day after it has been sent.
- 3. An appeal to the Senate Committee on Student Petitions involves an examination of all relevant documents and evidence to determine the appropriateness of a finding of

guilt or of the assessed penalty. The procedures for conducting an appeal and for holding a hearing are set out in the Regulations of the Senate Committee on Student Petitions. Following an appeal or hearing, the Senate Committee on Student Petitions may take one or more of the following courses of action:

- a. confirm a finding of guilt;
- b. reverse a finding of guilt (in which case no penalty shall apply);
- c. confirm a penalty;
- d. assess a different penalty.

### **Record of Academic Misconduct**

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 on the following site: http://www.uoguelph.ca/senate/policies.shtml.

#### **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

Offences	First Offence	Subsequent Offences
A. Misappropriation of Other's Work		
1. Plagiarism		
Minor	Resubmission of new work Loss of grades <sup>3</sup> Zero on the assignment	Loss of grades Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension

Major	Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary Suspension Expulsion/Revocation	
2. Copying			
Minor	Resubmission of new work Loss of grades Zero on the assignment	Loss of grades Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension	
Major	Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary Suspension Expulsion/Revocation	
3. Unauthorized Collaboration			
Minor	Resubmission of work Loss of grades Zero on the assignment	Loss of grades Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension	
Major	Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary <b>Suspension</b> Expulsion/Revocation	
B. Misrepresentation and Fraud			
1. Impersonation			
Minor	Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary Suspension	
Major	Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary Suspension <b>Expulsion/Revocation</b>	
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.	Resubmission of work Loss of grades Zero on the assignment <b>Zero in the course</b> <sup>4</sup> Loss of scholarship/bursary Suspension/revocation of admission offer	Zero in the course Loss of scholarship/bursary Suspension/revocation of admission offer Expulsion/Revocation	
3. Withholding of documents			
Minor	Official warning Loss of grades Resubmission of work Zero on the assignment	Zero in the course <sup>5</sup> Loss of scholarship/bursary Suspension Expulsion/Revocation of degree or admission offer	
Major	Zero in the course Loss of scholarship/bursary Suspension <b>Expulsion/Revocation of</b> <b>degree or admission offer</b>	Zero in the course Loss of scholarship/bursary Suspension <b>Expulsion/Revocation of</b> <b>degree or admission offer</b>	
4. Unauthorized Aids			
	Resubmission of work Loss of grades Zero on the assignment/exam	Zero in the course Loss of scholarship/bursary <b>Suspension</b> Expulsion/Revocation	
C. Improper Access and Obstruction <sup>6</sup>			
1. Preventing Access			
Minor	Official warning Resubmission of work Loss of grades Zero on the assignment	Zero in the course Loss of scholarship/bursary Suspension	

Major	Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary <b>Suspension</b> Expulsion/Revocation
2. Obstruction and Interference	Loss of grades Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension	Zero in the course Loss of scholarship/bursary Suspension Expulsion/Revocation
3. Improper Access	Zero in the course Loss of scholarship/bursary <b>Suspension</b> Expulsion/Revocation	Zero in the course Loss of scholarship/bursary Suspension <b>Expulsion/Revocation</b>
4. Improper Dissemination	Zero in the course (if applicable) <b>Suspension</b>	Zero in the course Loss of scholarship/bursary <b>Suspension</b> Expulsion/Revocation

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<sup>3</sup> Bolded text indicates the normal expectation for penalty for a first or second year undergraduate, or first year graduate student.

<sup>4</sup> If the falsified document is course-related (e.g. medical note).

<sup>5</sup> If the withheld information would have affected admission to a course.

<sup>6</sup> These offences may also be subject to penalty under the Student Rights and Responsibilities Policy.

## 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 allowed to continue in his/her program if granted **probationary** status (see Continuation of Study in this section).

#### **Required to Withdraw**

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

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

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

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

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

## Adding Courses

All course additions to a student's program for a particular semester are to be completed by the end of the add period. On the last day of the add period, students will be able to add courses up to a maximum of 3.25 credits on a first-come, first-served basis. Additionally, with a signature from the program counsellor, under exceptional circumstances a student will be able to enrol in more than 2.75 credits earlier in the process. The addition of a course after the end of the add period will be considered only in exceptional circumstances and will require the approval of both the instructor for the course and the program counsellor of the program in which the student is enrolled. The program counsellor's signature should be sought first but does not presume the judgment of the instructor as to the appropriateness of the late addition for his or her particular course. In practice, the following have been deemed to be exceptional circumstances: illness or compassionate grounds for missing all or part of the first three class days; interchanging courses with common lectures, one with and one without labs; late resolution of appeals; failure of a deferred course condition or examination; university errors in registration procedures.

#### **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" and have it completed by the instructor. The student must then present the completed form along with a completed Course Request form to Undergraduate Program Services for processing. Waiver forms are available from Undergraduate Program Services, Office of Registrarial Services, Level 3, University Centre. https://webadvisor.uoguelph.ca/st/index.shtml.

#### **Distance Education Courses**

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

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.

## Address for University Communication

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

## Email Address

The University issued email address is considered an official address and will be used for correspondence from the University. Students are responsible for monitoring

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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 fulfil 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 toSection 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 courses plus the number of courses in progress. As courses are dropped and added, or grades are received, the class level must be adjusted accordingly. Class Level is determined as follows:

Successfully Completed Credits and Credits In-progress	Class Level
0.00 - 2.50	1
2.75 - 5.00	2
5.25 - 7.50	3
7.75 -10.00	4
10.25 - 12.50	5
12.75 - 15.00	6
15.25 - 17.50	7

17.75 - 20.00	8
20.25 - 22.50	9
22.75 (or more)	10

## **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 1

Schedule 2

## Schedule 1

Students will follow Schedule 1 if:

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

## Schedule 1 Regulations

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

The continuation of study regulations at the University of Guelph are based on the principle that students must maintain a minimum average of 60%. To allow for transition issues, some leniency has been built into the minimum average requirement during the first 5.00 credit attempts. The student's cumulative average will be reviewed first. If the student's cumulative average does not meet the minimum required, the student will either be required to withdraw or placed on probation. When a student is placed on probation he/she will be required to obtain a minimum semester average. In subsequent semesters the student will either be required to withdraw, allowed to continue on probation, or 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: between 2.75 and 5.00

#### If Eligible to Continue

Cumulative Average (C)	Status of Student
C < 50%	Required to Withdraw
$C \ge 50\%$ and $C < 60\%$	Probationary Status
C ≥ 60%	Eligible to Continue
If on Probation	
a	a

Cumulative Average (C) Semester Average (S)	Status of Student
S < 50% or C < 50%	Required to Withdraw
$S \ge 50\%$ but $C < 50\%$	Required to Withdraw
$S \ge 50\%$ but $C < 60\%$	Probationary Status
C ≥ 60%	Eligible to Continue

## Number of Credit Attempts: more than 5.00 If Eligible to Continue

Cumulative Average (C)	Status of Student
C < 50%	Required to Withdraw
$C \ge 50\%$ and $C < 60\%$	Probationary Status
C ≥ 60%	Eligible to Continue
If on Probation	
Cumulative Average (C) Semester Average (S	Status of Student
S < 60%	Required to Withdraw
$S \ge 60\%$ but $C < 60\%$	Probationary Status
$C \ge 60\%$	Eligible to Continue

#### 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

Cumulative Average (C)	Status of Student
C < 50%	Required to Withdraw
$C \ge 50\%$ and $C < 60\%$	Probationary Status
C ≥ 60%	Eligible to Continue

## If on Probation

Cumulative Average (C) Semester Average (S)	Status of Student
S < 60%	Required to Withdraw
$S \ge 60\%$ but C <60%	Probationary Status
$C \ge 60\%$	Eligible to Continue

**Note:** Alternative course evaluations will not be included in the Continuation of Study calculations [Pass (P), Outstanding Pass (OP), Fail (F), Credit Standing (CRD) or Withdrawal with Failure (WF)]. Courses taken on a letter of permission will also not be included in the calculations. Students negatively affected by the omission of these courses in the Continuation of Study calculations may appeal a continuation decision to the Academic Review Committee.

## **Course Sections**

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

Students must attend the course section on their course schedule. In the event that a section change is necessary 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 Priority Access Courses in this section of the calendar.

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

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

New Students

In-Course Students

## **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" forms 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.uoguelph.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 counsellor 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:

- 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 appropriate dean's office about eligibility for the Dean's Honours List.

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

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

## **Deferred Privileges**

When students do not write a required final examination, complete a final assignment, or complete a work term report by the deadline, they may be eligible for a deferred privilege. A deferred privilege is the opportunity to complete the final course requirements after the end of the semester. The nature of the deferred privilege may take the form of either a deferred condition or a deferred examination. The Academic Review Sub-Committee grants deferred privileges on the basis of medical, psychological, or compassionate consideration (see Academic Consideration and Appeals). **Deferred privileges are normally completed in the semester immediately following the semester in which the course was taken (refer to Section III--Schedule of Dates)**.

If the Academic Review Sub-Committee assigns a passing grade or credit standing (CRD) on the basis of medical, psychological, or compassionate consideration, a student may request a deferred privilege instead. The student must make the request in writing to 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 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. 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 incomplete work, if medical or compassionate reasons prevail at the time of the scheduled condition. In this case, the student should consult with their program counsellor and may submit a "Request for Academic Consideration" form with documentation to Undergraduate Program 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).

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 individual instructor upon request from Scheduling, Office of Registrarial Services and informing 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.
- 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.
- (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.
- 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.

## **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 recorded.
- 2. The Examination Coordinator, Scheduling, informs the Chair/Director/designate that the Academic Review Sub-Committee has granted a deferred condition or examination; informs students who have been granted a deferred condition that it is their responsibility to contact the instructor to arrange the condition; specifies a deadline for completion of deferred conditions; prepares a deferred examination timetable and notifies all students who have been granted a deferred examination; requests the deferred examination papers from the Chair/Director; invigilates the deferred 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 fortieth 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 courses, for example, where students care for laboratory animals, or where supplies or books on loan must be returned. If instructor notification is required to drop the course, this will be specified on the course outline and announced in the first class meeting.

#### Refunds

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

#### **Regular Courses**

Regular courses may be dropped from the start of the add period to the 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 a Laboratory or Studio tests, with the scheduling of such tests indicated in the course outline. Short quizzes which have been a regularly scheduled part of the course and which are intended to review small amounts of material are not considered term tests and may be held during the last five class days.

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

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

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

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

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

- 10. If the examination is to be handed out after the end of classes, the instructor will be responsible for arranging distribution and for ensuring that students have the appropriate opportunity to ask questions for clarification.
- 11. Final assignments or papers may be due either during the final examination period or in the last week of classes. In either case, the assignments along with all necessary resource material should be available to students no later than the end of the 9th week of classes and the due date and date of issue of the assignment must be included in the course outline distributed at the first class meeting. The Office of Registrarial Services has determined the 9th day (6th day in the 12-week format summer semester; 4th day in the 6-week format summer semester) of the examination period as the final due date that may be assigned for final assignments due in the examination period. When a final assignment used in lieu of a final examination is to be due in the examination period, the department will inform the Office of Registrarial Services whether they are using the 9th day (6th day in the 12-week format summer semester; 4th day in the 6-week format summer semester) of the examination period, or whether they are using an earlier date. This information must be provided to 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.
- 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:

- 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".
- 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. Written approval must be obtained from the dean or director and the instructor-in-charge of the course to register in courses that have conflicting examination times.
- 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 at the front of the table. The attendance card will be signed at the time of collection.
- 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 on the cover of the first book the total number of books used.
- 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 is computer prepared by the Examination Coordinator, Scheduling, Office of Registrarial Services based on student course selections made during the course selection period. 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. 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.
- 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 desired responses to questions, where appropriate; the student's response to the examination questions; and records taken by examiners during oral or any other examination. Faculty members are encouraged to discuss openly with the student any questions raised. The department chair will make the necessary arrangements for student access to the material. When a large number of requests are received in connection with a specific course or when a faculty member is on leave it may be necessary for the department chair to delay access and make special arrangements, e.g., the posting of the marking scheme on a bulletin board, the scheduling of a special meeting at which the faculty member will review the examination, etc.

## **Exchange Programs**

Exchange programs between the University of Guelph and other institutions are defined by the terms of formal exchange agreements. A copy of each agreement must be approved by the Associate Vice-President (Academic) and registered with the Associate Registrar, 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 there and forwarded to the home institution at the end of the semester or academic year. Each institution participating in an exchange program designates a co-ordinator who will be responsible for arranging the details of the exchange. Students are advised not to leave on exchange without the written approval of the receiving university.

Students must pay their full-time fees and select their courses prior to leaving on exchange. "Exchange Program Course Selection Request" forms are available at the Centre for International Programs (C.I.P.) Office or from 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 a failed course by granting a supplemental privilege. It is unlikely that any student with a final grade of less than 40% would meet the requirements of the granting of a supplemental privilege. The decision to grant the privilege will normally be made in consultation with the instructor and a review of the student's course performance during the semester. The student must submit a Request For Academic Consideration form to request a supplemental privilege.

The Academic Review Sub-Committees will consider granting a supplemental privilege in the following special circumstances:

- 1. the course is failed in the graduating semester (if a supplemental privilege is granted and successfully completed, convocation will most likely be deferred until the following semester);
- 2. the failed course is not available to the student within the following three semesters, or within a time period that includes the graduating semester;
- 3. the course is of such a nature that there is no permissible substitute or alternative available to the student within the following three semesters, or within a time period that includes the graduating semester; or
- 4. the course is a required two-semester course that cannot be taken and completed within the following three semesters, or within a time period that includes the graduating semester.

The original failing grade will remain on the student's academic record. A notation of "P" or "F" will be shown beside the original failing grade to show that a supplemental privilege was granted and whether the outcome resulted in credit (P) or not (F).

### **Multiple Failure Limitations**

Students should note that some programs limit the number of times a student may repeat failed courses. A student may not be permitted to continue in his/her major and/or program should they fail the same course, or its equivalent, multiple times. Multiple failure limitations are noted in Program Requirements by Degree Program in Chapter X--Degree Programs.

## Grades

#### **Grading System**

Two-semester courses constitute two course attempts and will appear as such on the student academic record. These courses are indivisible and the same grade will apply for each attempt. A refined grading system was approved by Senate on May 21, 1991 effective Spring 1992 as follows:

A+	90-100%	С	63-66
А	85-89	C-	60-62
A-	80-84	D+	57-59
B+	77-79	D	53-56
В	73-76	D-	50-52
B-	70-72	F	0-49
C+	67-69		

Courses taken on exchange are graded using the Outstanding /Pass /Fail alternate grading system (refer to Exchanges, Section V--Special Study Opportunities; Exchanges). In addition, selected University of Guelph courses, approved by the Board of Undergraduate Studies, will use this alternate grading system.

#### Alternate Grading System

OP	Outstanding (Pass)
Р	Pass
F	Fail

## **Other Grade Notations**

AUD	Audit
CRD	Credit
DEF	Deferred Privilege
INC	Incomplete
INP	In Progress
MNR	Mark Not Received
WF	Withdrawn with Failure
XXF	Supplemental Privilege Failed (XX denotes the original failing grade)
ХХР	Supplemental Privilege Passed (XX denotes the original failing grade)

#### **Grading Procedures**

Feedback to students on work completed or in progress is an integral part of teaching and learning in that it allows students to measure their understanding of material and their progress on learning objectives. Feedback often goes beyond grading-an indication of the standard achieved-to include comments on the particular strengths and weaknesses of a student's performance. While the nature and frequency of such feedback will vary with the course, the University of Guelph is committed to providing students with appropriate and timely feedback on their work. Particularly in 1000 and 2000 level courses, instructors are urged to provide some feedback prior to the 40th class day.

### **Resolution 1**

That the assignment of grades at the University of Guelph be based on clearly defined standards, which are to be published in the Undergraduate Calendar for the benefit of faculty and students and that the definitions for each of the numerical grade range (letter grades) be as follows:

**80 - 100 (A) Excellent.** An outstanding performance in which the student demonstrates a superior grasp of the subject matter, and an ability to go beyond the given material in a critical and constructive manner. The student demonstrates a high degree of creative and/or logical thinking, a superior ability to organize, to analyze, and to integrate ideas, and a thorough familiarity with the appropriate literature and techniques.

**70 - 79 (B) Good.** A more than adequate performance in which the student demonstrates a thorough grasp of the subject matter, and an ability to organize and examine the material in a critical and constructive manner. The student demonstrates a good understanding of the relevant issues and a familiarity with the appropriate literature and techniques.

**60 - 69 (C)** Acceptable. An adequate performance in which the student demonstrates a generally adequate grasp of the subject matter and a moderate ability to examine the material in a critical and constructive manner. The student displays an adequate understanding of the relevant issues, and a general familiarity with the appropriate literature and techniques.

**50 - 59 (D)** Minimally Acceptable. A barely adequate performance in which the student demonstrates a familiarity with the subject matter, but whose attempts to examine the material in a critical and constructive manner are only partially successful. The student displays some understanding of the relevant issues, and some familiarity with the appropriate literature and techniques.

0 - 49 (F) Fail. An inadequate performance.

#### **Resolution 2**

That instructors must use evaluation criteria which measure quality of performance and not merely activity.

#### **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 web site. 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 that is 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.

Department also refers to schools and to colleges (where multiple section courses are offered by, or coordinated by the Office of a College Dean).

#### **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 for the student. The "Instructor's 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, <u>in writing</u>, 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 outline distributed to the class at the beginning of the semester defines the methods and criteria used in establishing final grades for a course. The methods and criteria must conform to the grading procedures established by Senate and be continually reviewed by the department (see Final Grades).

Students who believe that the methods or criteria used by an instructor in determining a final grade have been unfair, unreasonable or inconsistent with the course outline, should request the chair of the department offering the course to review the methods or criteria used. They should submit the request in writing by the 10th day of the subsequent semester and should state the reasons for the request.

The chair shall make an effort to resolve the matter to the satisfaction of both parties as soon as possible. Both the instructor and the chair are free to discuss the student's work with the student or another instructor in the department, but are not obliged to do so.

If both parties are able to come to an agreement, the chair shall prepare a statement of the agreement to be signed by both parties. If the agreement results in a change to the grade of the student, the chair shall inform 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. 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. If they have graduated with their first degree, they must apply for admission to the program for their second degree. However, only 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).

#### **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 application form and instructions for the completion of the application are available at 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, Office of Registrarial Services initiates 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 ceremonies.

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 students 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.

Caution: when selecting courses to take on Letter of Permission you should be aware that you may not be able to get into the courses selected. For instance, courses may be full, may have been removed from the schedule, or may conflict with other courses. For this reason, you are encouraged to select more courses than needed but indicate clearly on the Request for Letter of Permission form the number of courses that will be taken. If you need to take a course not listed on the form, you should make every effort to contact your program counsellor in advance of registering in another course in order to obtain approval for the equivalent credit. Departments reserve the right to deny credit equivalency to a course taken without prior approval.

## **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.
- 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.

Students who are readmitted will be advised of registration procedures. Questions should be directed to Undergraduate Program Services.

**Note:** In-course students who complete the registration procedures are advised that this registration is conditional on their eligibility for continuation of study into that semester. A student who is required to withdraw will not be allowed to attend classes, the registration will be cancelled and an appropriate adjustment automatically will be applied to the student's account (see also--Withdrawal).

The procedure is as follows:

- 1. Approximately 2-3 weeks before the deadline, a billing statement is on WebAdvisor, to students who have selected courses.
- 2. Students must make payment to Student Financial Services by the deadline. Payments received after the deadline will be assessed a late registration fee.

#### General System In-course Students (Fees)

The registration procedure is conducted through WebAdvisor. The registration procedure will allow all in course students to complete their financial arrangements with Student Financial Services before the upcoming semester. The billing form will reflect the course selection data, also your accommodation and meal plan status if available, and is to be returned with suitable arrangement to Student Financial Services. The deadline for payment is indicated in Section III--Schedule of Dates., of this calendar. Failure to meet the deadlines will result in an additional fee adjustment. Mailings by the University will be made to the University email account, the on-campus P.O. Box, and/or the mailing/home address per the University's student address policy.

Registration is conditional on being eligible to continue in your program of study. Students who are required to withdraw will not be allowed to attend classes as their registration will be cancelled immediately and a full refund of fees will be made as soon as possible. Students required to withdraw who subsequently are re-admitted or who transfer to another program or who become eligible to proceed through appeal must report to Undergraduate Program Services, Office of Registrarial Services to have their registration status confirmed and add their courses.

Registration may be completed by one of the following methods:

- On receipt of payment. DO NOT SEND CASH IN THE MAIL
- An approved "Staff Registration and Tuition Waiver Request" form (for qualified full-time University employees only).

PAYMENTS RECEIVED THROUGH THE MAIL MUST BE POST-MARKED ON THE DEADLINE DATE OR EARLIER TO AVOID THE ASSESSMENT OF A LATE REGISTRATION FEE.

#### **Parking Payments**

Students wishing to pay for a parking permit are asked to include the appropriate payment in accordance with the schedule in Section VI--Schedule of Fees with their total payment submission. Students who comply with this procedure will receive their parking decals in the mail prior to the commencement of classes.

#### **Changes to Preprinted Calculations**

Students who have changed their mind concerning the number of credits they wish to take are advised to write the correct amount on the billing form. Please refer to the fee schedule included with your billing form.

Changes to residences calculation, including meal plans, must be cleared through the Student Housing Services or Hospitality Services.

#### **Cancellation/Withdrawal Procedure**

If you have paid and wish to cancel your registration before classes begin please call Undergraduate Program Services, Office of Registrarial Services and a full refund will be arranged. Students are advised that there is a withdrawal procedure as of the first day of classes (see Withdrawal).

Once the payment has been submitted, **please do not put a stop payment on your cheque.** This does not constitute cancellation and will only result in a cheque refusal fine being charged.

### Hospitality Services, OSAP, Parking

Each of these departments have information which will be distributed to students for the semester in question under separate cover, e.g. location for picking up meal cards, location to pick up OSAP grant/loan cheques, procedure to use for payment of parking decals.

## **Return Mail Box Locations (Internal Mail)**

The University has on-campus mail boxes which may be used to return registration payments. All mail is picked up daily and is post-marked by Mail Services.

## Late Registration

Students who do not register by the time designated as the registration deadline for the semester in question are subject to additional fee adjustments. Exceptions will only be made for acceptable reasons with documented evidence. **The fee schedule for late registration is published in** Section VI--Schedule of Fees. A student will not normally be allowed to register after the end of the Add period. Appeals against the additional fee adjustments must be made in writing to the Secretary of the Appeals Committee, by contacting the 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 Associate 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.

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 3-hour and other class formats in such a way as to minimize conflicts and maximize efficient use of teaching space.

The University scheduling day runs from 0830-1730 and 1900-2200; Senate has approved the 1730-1900 "dinner hour" as a period which shall be free of all regular class meetings, labs, seminars.

The scheduling cycle for each S, F and W semester commences one year in advance. The final timetable for each semester is published on WebAdvisor two weeks prior to the commencement of the initial Course Selection period for that semester.

#### **Chair/Director's Responsibilities**

The Chair/Director or the designated Department Timetable Coordinator is responsible for the following:

- 1. Submitting to the Assistant Registrar, Scheduling, no later than the established deadline, completing requests for courses to be scheduled in the subsequent academic year.
- Acting as liaison between instructors and Scheduling on all aspects of scheduling, including collecting information relevant to course scheduling from instructors, submitting it appropriately.
- Approving the department's course schedule before publication. This involves checking that no conflicts exist in instructor or student schedules.
- 4. Calculating projected enrolments for the subsequent academic year and monitoring enrolments through course selection periods, making adjustments to course capacities and the availability of sections as necessary.

#### **Instructor's Responsibilities**

Instructors are responsible for communicating to the Chair/Director or Department Timetable Coordinator, prior to the established deadline, any information relevant to the scheduling of courses in the subsequent academic year.

#### **Registrar's Responsibilities**

The Assistant Registrar, Scheduling creates the university timetable according to the following priorities:

1. No course conflicts exist in core courses as published in the schedule of studies in the Undergraduate Calendar.

- 2. The number of elective courses available to students is optimized.
- 3. 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.
- 4. No instructor conflicts exist according to department information.
- 5. 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 is to be initiated by the Chair/Director or Department Timetable Coordinator and made to the Assistant Registrar, Scheduling.

#### **Cancellations and Time Changes**

If course cancellation or class meeting time changes are required once the course timetable has been published on WebAdvisor, the Chair/Director is responsible for obtaining the approval of the Associate Vice-President (Academic) through the Coordinator of the Undergraduate Curriculum (CUC), and the appropriate Dean. Requests to the CUC should be made by the Chair/Director in writing via electronic mail, copying the Dean and the Assistant Registrar, Scheduling. If approved, the CUC will notify the 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 following the procedure above.
- Time changes after the commencement of classes. Changes in scheduled meeting times 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. The academic unit should keep a record of student approval on file, and 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. The instructor is responsible for ensuring that all registered students can attend during the new meeting time(s) and for informing the students of the new time(s) and room assignment(s).

#### **Classroom Assignment Changes/Bookings**

- Classroom changes prior to the commencement of classes\*. At the request of the Chair/Director or Department Timetable Coordinator, the Assistant Registrar, Scheduling and Scheduling Coordinators may reassign classroom space based on course selection figures. Scheduling will make notification of changes affecting other academic units to the Department Timetable Coordinator for those units.
- Classroom Changes and Bookings after the commencement of classes\*. Instructors requiring classroom changes after the commencement of classes should forward their request through their Chair/Director or Department Timetable Coordinator to the Scheduling Reservations Clerk, via electronic mail. If classroom space assigned to a course is no longer required, instructors should also notify Scheduling by this means, as soon as possible. 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.
- Classroom bookings for non-regularly scheduled classes, meetings, conferences, tests, etc. may be made through the Scheduling Reservations Clerk, by University of Guelph faculty, staff and students.

\* To ensure that highest priority needs are met first and to reduce confusion on campus at the beginning of each semester, Scheduling will accommodate requests for classroom changes in the week preceding the commencement of classes and the first two weeks of classes based on the reasons below only. Requests made for other reasons will be neither accepted nor accommodated during this three-week period.

- 1. enrollment changes
- 2. student/instructor disability
- exceptional circumstances which may be submitted by the Chair/Director to the Scheduling Reservations Clerk for approval by the Assistant Registrar, Scheduling.

## **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 Procedures**

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 in this section). In considering the request, the Academic Review Sub-Committee 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.

**Note:**Students in the B.Sc.(Eng.) Program should refer to the B.Sc.(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.

#### Academic Review Sub-Committee's Responsibilities

The Academic Review Sub-Committee, upon receiving a request from the student, and after consulting with the instructor and reviewing the student's course performance, will determine whether a supplemental privilege should be granted. 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. Initialing 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 (refer to Section III--Schedule of Dates..

#### **Registrar's Responsibilities**

- 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:** Graduate Program transcripts (e.g. Master of Science) must be ordered by submitting the "Request for Transcript" form along with payment to Graduate Program Services. The order can be placed by mail, facsimile or in person.

**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 contact the departmental advisor for the specialization in which they wish to register. Students wishing to change specializations within the B.A.Sc. or B.Comm. Programs should consult with their program counsellor.

## Verification Notice

During the third week of classes 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.

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 for academic inisconduct, of

c. have not registered at the University of Guelph for 6 or more consecutive semesters Readmission to a program at the University of Guelph is not automatic. Students should consult Section IV-Admission information regarding appropriate admission requirements and deadline dates. Applicants for readmission should include a statement which outlines the basis for readmission. Criteria used for readmission may differ by academic program. Students considering readmission should consult with the appropriate program counsellor regarding procedures and criteria for readmission to that program.

Students who withdraw without academic penalty after the termination of the official drop period for medical or psychological reasons must clear their re-entry in a subsequent semester through the dean of the college concerned. Students who withdraw on more than two occasions may be required to meet with the dean in order to clear their re-entry into a subsequent semester. At the discretion of the dean, the condition of re-entry may be a recommendation of either Student Health Services or the Counselling Unit of the Counselling and Student Resource Centre that re-entry is advisable. Students who wish to appeal the decision of the dean have recourse to the Senate Committee on Student Petitions.

A student who wishes to be considered for readmission following a suspension for academic misconduct must make an application that will be judged on the basis of eligibility to continue. A student who is suspended for academic misconduct and also fails to meet the continuation of study requirements will normally be required to serve the associated penalties consecutively.

A student who has been expelled from the University for academic misconduct is not eligible for readmission to the University for at least five years. A student who wishes to be considered for readmission must petition the President to have the expulsion status removed (please refer to the Academic Misconduct Policy for detailed procedures).

## Granting of Credit while on Rustication

Senate's Policy on granting of credit for work done while on rustication is outlined below. It applies to any university credit course taken during the rustication period.

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

## IX. Scholarships and Other Awards

## **General Statements on Awards**

The University of Guelph attracts a community of outstanding scholars to its broad range of faculties and programs. The Committee on Awards, established by the Senate of the University, is responsible for the supervision of the administration of awards in the gift of the Senate. In addition, this Committee formulates policies regarding the effective use of funds designated for awards and establishes the terms and conditions attached to the awards. Each College has an Awards Committee, which is responsible for the awarding of scholarships and bursaries. In addition, there is a University Bursary Committee that is responsible for awarding bursaries. 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/departments. Students entering the 1st semester of their first undergraduate degree, should consult the "entrance" sections for a listing of awards that may apply to them. Students that are registered students at the University of Guelph should refer to the "in-course" sections for a listing of awards that may apply to them. 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, all registered students are eligible for most awards, unless otherwise stated in the eligibility clause of the award. A minimum of 70% average is required for all scholarships. *International Students:* Financial Assistance Programs are available for International Students, including Entrance Awards, Work-Study and In-course Bursaries. In addition, many of the University of Guelph's scholarships for upper-year students are available to enrolled international students and are based on high academic standing. Where applications are required, it is the student's responsibility to obtain an application from Student Financial Services and to see that it is returned prior to the deadline date.

Award: Generic term used to refer to any type of award. These include scholarships, bursaries, travel grants and ACCESS awards.

ACCESS Awards: The University established an endowment fund through generous donor contributions and has been matched by the provincial government's Ontario Student Opportunity Trust Fund (OSOTF) program and the Ontario Trust for Student Support (OTSS). The income generated from these endowments will be used to support financial aid programs. The awards created will be used to assist Canadian citizens or permanent residents who meet the Ontario residency requirements as mandated by the OSOTF/OTSS program. Students must complete a Financial Need Assessment Form in order to be considered. Please contact the Awards Office, Student Financial Services for further details.

Ontario Government Mandated Terms for an OSOTF/OTSS Award:

#### i) be a Canadian citizen or permanent resident;

ii) be a Ontario resident as defined by a) have lived in Ontario for a period of at least 12 consecutive months up to the beginning of full-time post-secondary study; or b) the student's spouse has lived in Ontario for at least 12 consecutive months up to the beginning of the current year full-time post-secondary study period; or c) the student's parent(s)/stepparent(s)/legal guardian/official sponsor has lived in Ontario for at least 12 consecutive months up to the beginning of the current year full-time post-secondary study period;

iii) financial need as determined by the University of Guelph's Financial Need Assessment procedures.

**Bursary:** An award provided to a student on the basis of financial need only. Financial need is determined by the University of Guelph's Bursary Committee after an evaluation of the Financial Need Assessment Form has been submitted by the student. Academic merit is not a consideration in awarding a bursary. You must be a Canadian citizen or permanent resident of Canada to be considered for bursaries. International students are eligible to apply for the International Student Bursary only.

**Scholarship:** An award povided 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 critera as scholarships, but financial need is a consideration.

**Travel Grants:** These grants are provided to students who wish to travel as part of their program of study. Examples of travel opportunities include: Exchange/Study Abroad programs, letter of permissions, field courses, and independent research projects that are related to a student's program of study.

**Payment of Awards for In-course Students:** Please note that Student Financial Services will apply all internal awards against outstanding balances on students' accounts.

**Payment of Awards for Entrance Students:** Awards will be applied directly to the student's financial account in two equal payments in the fall and winter semesters.

Students who receive an award and who withdraw from the semester in which the award is received, or change the number of credits in which they are registered, may have their award adjusted. This adjustment will be calculated up to the twentieth class day according to the rebate schedule in effect for that semester and the published terms and conditions for the award.

The University reserves the right to amend awards subject to the availability of funds.

## **Bachelor of Applied Science**

Please refer to the General Statement on Awards for:

- Award Eligibility
- · ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

#### **Entrance Scholarships**

#### Adelaide Hoodless Entrance Scholarships [E0133]

Established in memory of Adelaide Hoodless, by the estate of her daughter, Muriel I. Bostwick (MAC '31D). This award will be made in two equal installments of \$750. The second installment will be paid at the beginning of semester 2 provided the recipient obtains at least a 70% average in semester 1. Application not required.

*Donor(s):* The estate of Muriel I. Bostwick

*Qualification(s):* Students entering the BASc program. *Amount:* 5 awards of \$1,500

### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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: 4 awards of \$7,000

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

#### Donor(s): Board of Governors

Qualification(s): Outstanding students entering semester 1 Amount: 25 awards of \$8,000

#### Clara E. Elliott Education Scholarship [E0210]

Provided by the estate of Clara E. Elliott, MAC '07. 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 the basis of academic achievement and evidence of participation in leadership roles, especially teaching and education. Preference will be given to students planning a teaching career in areas related to family studies including nutrition education and early childhood education. References from teachers should be included.

#### 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 edcuation at any
	level.
Amount:	1 award of \$10,000

Clara E. Elliott Entrance Scholarships [E0095] Provided by the estate of Clara E. Elliott, MAC '07. 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. Students accepted into the BASc program will be invited to submit an application. References from teachers should be included in the application.

#### 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

#### 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 to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main 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. Preference will be given to Graduates of the
	Diploma in Agriculture program.
Amount:	1 award of \$1,200

#### Gordon W. Innes Scholarship [E0140]

Application not required.

Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.	
Qualification(s): Amount:	Student from Oxford County with the highest admission average. 1 award of \$1,400	
International St	udent 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 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. Application not required.

#### Donor(s): The J.D. MacLachlan Trust

*Qualification(s):* Student entering the University with the highest admission average. *Amount:* 1 award of \$1,500

#### Janet Wardlaw Scholarship [E0612]

Established in 1960, formerly known has 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 not required.

Donor(s):	Mac-FACS-FRAN Alumni Association
Qualification(s):	Students entering the B.A.Sc program in the Department of Family
	Relations and Applied Nutrition.
Amount:	1 award of \$1,000

## **L.**/

L.A. Beattie & J.C. Beattie Memorial Scholarship [E0026]	President's Scholarship [E0238]
The estate of Jessie L. Beattie has established a scholarship in memory of Lillie Ann         Beattie and Jeannie Cockburn Beattie. The scholarship is awarded alternately between         the B.A.Sc. (odd-numbered years) and B.Comm. (even-numbered years) programs.         Application not required.         Donor(s):       The estate of Jessie L. Beattie         Qualification(s):       Student entering full-time studies in the B.A.Sc. program or the School of Hospitality and Tourism Management, Real Estate and Housing or Marketing Management majors in the B.Comm. program who has achieved the highest mark in English during the final year of high school. In the event of a tie, preference will be given to students from rural areas.	The most prestigious entrance awards at the University of Guelph. T of \$26,000 (\$6,500 annually) plus the opportunity for a summer re after the first year of study (approximately \$6,000 stipend), named to or distinguished members of the University. Students cannot app award. Nominations must be made by each high school. Each high s two students; one entering a science program and one enter science/humanities program. The nomination process is a two-pa school's nomination and (b) the student's supporting documentation the material sent to each high school in Canada from the University of High schools must submit the complete application (both parts) direct Registrar, Student Financial Services by Feb. 1.
Amount: 1 award of \$300	Donor(s): A number of President's Scholarships have been name
Lincoln Alexander Chancellor's Scholarship [E0493]         These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process:         (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.         Donor(s):       Many Donors         Qualification(s):       Entering students of academic distinction who are Aboriginal, persons with a disability or members of a racial minority, and who have made significant contributions to their schools and communities and demonstrated the potential to become leaders in society. Financial need may be taken into consideration.	following people and/or donors:         Dick Brown         Two of the scholarships, endowed by Dr. Patrick Lett ar whose leadership qualities best reflect those demonstrat University Athletics from 1968 to 1988.         Cecil H. Franklin and Ingrid Franklin         In honour of Cecil Franklin, former Chair of the Boa Honorary Fellow of the University, the University of Gue these twelve prestigious entrance awards to recognize his 1 and volunteer support to the President's Entrance Scholar         Charles S. Humphrey         In memory of Charles S. Humphrey, a former Preside Company Canada Ltd. and long-time friend, the University his estate to the President's Entrance Scholarship         Jack R. Longstaffe         The University of Guelph has named one of these twelve awards in memory of Jack R. Longstaffe to recognize his through his estate to the President's Entrance Scholarship Burton C. Matthews         The University of Guelph has named one of these twelve awards in honour of Burton C. Matthews to recognize his through his estate to the President's Entrance Scholarship Burton C. Matthews
McArthur-Humphries Scholarship [E0183]         Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.         Donor(s):       Wilhelmina McArthur-Humphries Trust Fund         Qualification(s):       Students entering semester 1 with a minimum 75% admission average. Preference will be given to those students from Lanark and Wellington Counties. 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.         Amount:       12 awards of \$1,000         P.A.J. Clarke Family Scholarship [E0381]         Paul and Aileen Clarke and their family established the endowment for this entrance	Kathleen and Frederick Metcalf         Mr. and Mrs. F.T. Metcalf of Guelph have endowed         distinguished career in cable TV, broadcasting and pui         Metcalf retired as President of Maclean Hunter Ltd. and C         of Maclean Hunter Cable Ltd. He was Honorary Chairm         Cable Ltd. and a member of the University of Guelph He         Rol-land Farms Limited         Two of the scholarships are endowed by the four sharehold         Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eri         families. The Vander Pol families are generous suppor         University projects and programs.         Lillian Stewart Usher         The University of Guelph has named one of these twelv         awards in honour of Lillian Stewart Usher a friend of the U         her financial contribution through her estate to the         Scholarship program.         Qualification(s): Entering students of academic distinction who have
scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by letter outlining extracurricular and/or community activities, ensuring that you	contributions to their schools and communities an potential to become leaders in society.

An P.A Pa scł Aŗ have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

#### Donor(s): Paul and Aileen Clarke

Qualification(s):	Students with a minimum 80% average with a record of leadership
	and community participation are eligible. Preference will be given to
	candidates from Blenheim district or Kent County and who were raised,
	or have worked, on a farm. Students may be contacted to provide
	special need circumstances if there is a short list of equal candidates.
Amount:	1 award of \$12,000

Twelve scholarships research assistanship o honour their donors ply directly for this school can nominate ering an arts/social part process: (a) the n. This is outlined in of Guelph each fall. ectly to the Associate

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lders of Rol-land Farms ric Vander Pol and their orters of a number of

ve prestigious entrance University to recognize e President's Entrance

ave made significant nd demonstrate the ers in society. Amount: 12 awards of \$26,000

#### The 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. Apply by letter to Student Financial Services by April 1.

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

Qualification(s).	In the first instance, the award will be given to an entering student
	coming from the Grand River Polytechnical Institute (GRPI) and who
	has received the highest cumulative average in the Native University
	Access 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 GRPI who has the highest cumulative average at the University.
Amount:	1 award of \$900

52	IX. Scholarships and Other Awards, Bachelor of Applied Science
University of Guelph Entrance Scholarships [E0291]	Devine Family Scholarship [E4542]
This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required. Donor(s): University of Guelph Qualification(s): Students entering their first year of post-secondary studies for the first time and have a minimum 85% admission average. Amount: Several awards ranging in value from \$2,000 to \$3,000	On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member with the assistance of the Ontario government's OTSS program, established this aware for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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. Student should complete the online Financial Need Assessment Form for Entrance Award (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admission has been submitted by the student) and complete the "Devine Family Scholarshi Application". Deadline to submit the complete application (both parts, the E.N.A.F. ar
University of Guelph Faculty Association Scholarship [E0292]	the application) is May 1. Scholarship offers will be made in May. This award is n
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. Application not required.         Donor(s):       University of Guelph Faculty Association         Qualification(s):       Student entering an undergraduate degree program at the University         of Guelph with the highest admission average who has been a resident         in the County of Wellington during the previous twelve months.         Amount:       1 award of \$2,250	<ul> <li>tenable with the President's Scholarship or the Lincoln Alexander Chancellor Scholarship, but can be held with all other entrance awards. ACCESS AWARD.</li> <li>Donor(s): Mr. Peter J. Devine</li> <li>Qualification(s): Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. Preference will be given to students of African Canadian descent. Additionally, studen must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</li> </ul>
W. Penri Morris Memorial Scholarship [E0430]	Amount: 1 award of \$25,000 (payable over 4 years of study)
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 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	<ul> <li>Kenneth O. Hammill-Blount Canada Scholarship [E4356]</li> <li>Established in honour of Kenneth Osborne Hammill, a long time friend of the Univers and retired plant manager of Blount Canada, with the assistance of the Onta government's OSOTF program. The winner is chosen from the list of alternates for President's Scholarships. President's Scholarship nominees should complete the onl Financial Need Assessment Form (N.A.F.) application as soon as they receive th Acknowledgement Package from Admission Services (this will come automatically af an application for admissions has been submitted by the student). Deadline to sub the application is May 1. ACCESS AWARD.</li> <li>Donor(s): The Blount Foundation, Inc.</li> <li>Qualification(s): Students from the Province of Ontario, with demonstrated financia need, entering one of the following programs on an annual rotation R A in 98/09. than R A Sc. B Comm. B Sc. A Sc. (Agr.) B ENC</li> </ul>
Entrance Scholarships with Financial Need	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, continu
Bill Klopp Memorial Award [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 May 1. 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).         Donor(s):       Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has financial need	<ul> <li>to demonstrate financial need and be full-time students in order to qualify for subsequent installments. During the summer after the 3r 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 grau 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. Additionally, student must meet the government-mandated terms for receipt of an OSOTT award (see General Statements on Awards).</li> <li>Amount: 1 award of \$9,600, payable in 8 payments of \$1,200</li> </ul>
has financial need. Amount: 1 award of \$500	Established by the University of Guelph to support entering undergraduate students with
	Established by the University of Gueiph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admission has been submitted by the student). Deadline to submit the application is May Scholarship offers will be made in May. This award is not tenable with the Universit of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards. <i>Donor(s):</i> University of Guelph
	Donor(s): University of Gueiph Qualification(s): Students entering a full-time undergraduate program on the basis

Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit. 500 awards of \$2,000 Amount:

#### 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 (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 May 1. ACCESS AWARD

## Donor(s): Rol-Land Farms

Qualification(s):	Outstanding entering undergraduate degree students 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

## University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### Donor(s): University of Guelph

201101(3)	- · · · · · · · · · · · · · · · · · · ·
Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

## **Entrance Awards with Financial Need**

## Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

## 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. Students who have applied to the University of Guelph will receive an application form.

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 of \$1,000, Several awards of \$3,000

## 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

## 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 May 1. 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

## In-course Scholarships

A.M. Bell Prize [C0028]		
Provided by the e	estate of the late Adna M. Bell. Application not required.	
Donor(s): Qualification(s): Amount:	The Estate of Adna M. Bell Student who obtains the highest grade in course NUTR*4900 Selected Topics in Human Nutrition. 1 award of \$150	
	ess Memorial Scholarships [10137]	
will be eligible fo	mory of Adelaide Hoodless, by her son, Bernard B. Hoodless. Students or only one Adelaide Hoodless Memorial Scholarship. Apply by letter rricular activities to the Department of Family Relations and Applied il 1.	

## Donor(s): The Estate of Bernard B. Hoodless

Qualification(s):	Students entering semester levels 5, 6, or 7 of the BASc program.
Amount:	2 awards of \$500

#### Adelaide Hoodless Proficiency Scholarships [I0138]

In memory of Adelaide Hoodless, the estate of her daughter, Muriel L. Bostwick (MAC '31D), has established a number of proficiency scholarships to students in the BASc program. Students can receive up to two Adelaide Hoodless Proficiency Scholarships. Apply to the Department of Family Relations and Applied Nutrition by April 1.

#### Donor(s): The Estate of Bernard B. Hoodless

Qualification	(s): Students entering semester levels 3, 4, 5, 6 or 7 of the BASc program
	with a cumulative average of at least 70%. Recipients will be selected
	on the basis of academic merit and involvement in extracurricular
	activities.
Amount:	2 awards of \$500

## Agincourt Milk Producers' Association Scholarship [10003]

Application not required.

## Donor(s): Agincourt Milk Producers

Qualification(s):	Student preferably from a farm family in York County or the Region
	of Durham. The student must be entering semester 7 of the B.A.Sc.
	program with a good academic record and be majoring in Applied
	Human Nutrition. Presented in the Fall semester.
Amount:	1 award of \$600

## 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 April 1. 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 have completed
	between 10.5 and 15.0 credits and achieved a minimum cumulative
	average of 70%.
Amount:	1 award of \$500

Anne Callagan Memorial Scholarship [I0038]	Collins Barrow Award [10040]
The alumni, faculty and staff of the former College of Family and Consumer Studies established a scholarship in memory of Professor Anne Callagan. Offered in	Offered by Collins Barrow, a national firm of Chartered Accountants. Awarded in the Winter semester. Application not required.
odd-numbered years. Application not required.         Donor(s):       The alumni, faculty and staff of the College of Social and Applied Human Sciences	Donor(s): Collins Barrow Chartered Accountants Qualification(s): Student with the highest grade in course BUS*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship
Qualification(s): Co-op student in the BASc program who achieves the highest cumulative grade average over the first 4 semesters of study.	will be given to the student with the highest cumulative average in their program.
Amount: 1 award of \$400	Amount: 1 award of \$500
Bill Taylor Memorial Scholarship [I0280]	CSAHS Student Volunteer Scholarship [10482]
Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by April 1.         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	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 April 1. <i>Donor(s):</i> Harshman Fellowship Society and Pfizer Canada Inc.
Certified General Accountants Award for Excellence Prize [C0025]	Qualification(s): Full-time undergraduate students in any degree program offered by
Awarded to the graduating student with the highest average in the three accounting courses listed. Application not required. <i>Donor(s):</i> Certified General Accountants Association of Ontario	the College of Social and Applied Human Sciences and have completed at least 15 course credits with a minimum cumulative 70% average.Amount:1 award of \$450 plus an equal amount to the charitable organization of the recipient's choice
Qualification(s): Graduating student who has a minimum cumulative average of 77% in Financial Accounting BUS*2220; Management Accounting	David F. Boyes Apiculture Scholarship [I0031]
Amount:BUS*2230; and Intermediate Accounting BUS*3330.1 award of \$150, plus 1 year tuition and course fee towards the CGA program. (approximate value of \$2,000)	Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application not required. Donor(s): The Apiculture Club Qualification(s): Student registered in the Fall semester who achieves high academic
CFRU Volunteer Award [I0215]	standing in Introductory Apiculture (ENVB*2210) in the previous
Apply to the CFRU Board of Governors by April 30.	year, demonstrates an interest in apiculture and who has participated
<i>Donor(s):</i> Station Manager, CFRU <i>Qualification(s):</i> Applicants must be registered or graduating from the University of	in extracurricular activities. Amount: 1 award of \$150
Guelph and have volunteered at CFRU for at least one year. The	Deans' Scholarships [I0323]
recipients will be selected on the basis of academic performance and	Offered by the Board of Governors. Recipients will be selected by each of the College
volunteer work at CFRU. Amount: 2 awards of \$250	Awards Committees. Winners will be notified in the Fall semester. Application not required.
Class 1930 Scholarship [I0061]	Donor(s): Board of Governors
A student may receive this scholarship once only. Application not required         Donor(s):       Students' Council of the Macdonald Institute         Qualification(s):       Student entering semester level 3, 4 or 5 who obtains highest standing in the BASc program         Amount:       1 award of \$200	Qualification(s): Students registered in any degree program. The primary academic criteria is placement on the Deans' Honours List for two consecutive semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M. program, in the previous Fall/Winter/Summer sequence.         Amount:       150 awards of \$1,000
Class of 1970 Scholarship [I0424]	Dorothy Britton Memorial Scholarship [I0015]
<ul> <li>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 not required.</li> <li>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</li> </ul>	Scholarships are awarded from funds donated from the estate of Dorothy Britton (MAC         '39). Awarded on the basis of high academic achievement. Application 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 \$2,000
on the Deans' Honours List. Amount: 1 award of \$1,400	Elizabeth Landels Casselman Scholarship [10050]
Amount: 1 award of \$1,400 Class of Mac '65 Scholarship [10579]	Awarded from the estate of Elizabeth Landels Casselman. Apply by April 1 to Department
The recipient will be selected on the basis of academic achievement and leadership	of Family Relations and Applied Nutrition, stating leadership qualities and participation in extracurricular activities.
ability as demonstrated through extracurricular involvement and/or volunteerism. Apply by letter to the Chair of the Department of Family Relations and Applied Nutrition by April 1, including a comprehensive listing of extracurricular involvement and leadership roles. Donor(s): Class of Mac '65	Donor(s):       Elizabeth Landels Casselman Estate         Qualification(s):       Student entering the semester 5 of the BASc with a minimum cumulative average of 80% and demonstrated excellence and leadership in extracurricular activities.         Amount:       1 award of \$1,700
Qualification(s): Canadian citizens or permanent residents who are majoring in Applied Human Nutrition or Gerontology in the BASc program and have	Ellen Nilsen Memorial Scholarship [10047]
Amount: 1 award of \$1,000	Apply to the Director for International Development Studies with an unofficial summary, 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

Ethel M. Christie Scholarship [I0057]	Helen G. West Memorial Scholarship [I0512]
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. Application not required.         Donor(s):       Dr. George I. Christie & Margaret C. Hearn         Qualification(s):       Student in the BASc program who has achieved highest standing in 1.50 or more credits in English.         Amount:       1 award of \$100	<ul> <li>Established by the family of Helen G. West, a Mac '30 graduate who was a member the first University of Guelph Senate and a charter member of the University of Guel Alumni Association. Apply by letter to the Chair of the Department of Family Relation and Applied Nutrition by April 1st, including a comprehensive listing of leadersh involvement in extracurricular activities.</li> <li><i>Donor(s):</i> Nancy Sawyer, Mary H. Simpson, their families and Belle Shirlaw Qualification(s): A student in any major of the B.A.Sc. program who has completed between 15.0 and 17.5 course credits with a minimum B+ (77%)</li> </ul>
Evelyn Matheson Pepper Memorial Scholarship [10538]	cumulative average, and who has participated in extracurricular
The daughters and grandchildren of Evelyn Matheson Pepper, a Mac '33 graduate, provide this scholarship. Application not required.	Amount: 1 award of \$2,000
Donor(s): Ms. Barbara Stuart and Ms. Susan Pepper	International Undergraduate Scholarship [I0577]
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	Established through a student referendum approved by the undergraduate student bo to recognize international students' academic merit along with involvement/leaders
Gertrude R. Peterson Memorial Scholarship [10234]	activities during their enrollment at the University of Guelph. Financial need will considered only in the event of a tie. Apply to Student Financial Services, by April
Application not required.         Donor(s):       Mr. Eugene Peterson         Qualification(s):       Student in the Applied Human Nutrition major who obtains the highest mark in the course NUTR*3040, Clinical Nutrition I. In the case of a tie, the award will be given to the student with the highest cumulative average.	<ul> <li>with a letter indicating involvement/extracurricular activity since entry to the University two academic and/or professional references, and a completed Financial Need Assessmer Form (N.A.F.) for International Students form. This award can only be held once by the student.</li> <li><i>Donor(s)</i>: International Student Organization (ISO)</li> <li><i>Qualification(s)</i>: Full-time International students (defined as those paying full</li> </ul>
Amount: 1 award of \$500	international student tuition without exemption), who have complet
Gonder Family Centre for Students with Disabilities Volunteer Award [I0563]	at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%, and is registered at the time
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	application.
encourage others to do so, Dr. John and Mrs. Katherine Gonder provide this award to a	Amount: 1 award of \$1,000
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	Janet M. Wardlaw Medal [C0096] Established in honour of the many contributions of Dr. Janet M. Wardlaw, a forr
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. <i>Donor(s):</i> <b>Dr. John and Mrs. Katherine Gonder</b>	<ul> <li>Dean of the College of Family and Consumer Studies. Application not required.</li> <li>Donor(s): Faculty, staff, alumni and students, formerly FACS</li> <li>Qualification(s): Presented to the Department of Family Relations and Applied</li> <li>Nutrition's nominee for the Winegard Medal.</li> <li>Amount: 1 Medal</li> </ul>
Qualification(s): All students registered in the College of Social and Applied Human	Jean C. Bradley Memorial Prize [C0032]
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	This prize was established by the 1929 class of Macdonald Institute in memory of Je C. Bradley, instructor of foods and cookery at Macdonald Institute. Application required.
Gonder Family Scholarship [10580]	Donor(s):         Mac-FACS-FRAN           Qualification(s):         Students that graduated in the previous fall or winter or will be
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 CSAHS major of the B.Comm.	<i>Guargication</i> (s). Students that graduated in the previous fail of white of win be graduating in the summer with the highest cumulative average in t Applied Human Nutrition major of the BASc program. <i>Amount:</i> 1 award of \$300
program. Application not required.	Jean Carter Memorial Gerontology Scholarship [I0488]
Donor(s): Dr. John and Mrs. Katherine Gonder	
Governor General's Medal [C0044]	involved in the life of the College and the University. Apply by letter to the CSAI Undergraduate Awards Committee, Dean's Office by April 1st, including a statement that outlines the student's experience working with the elderly in a volunteer capace as well as extracurricular involvement the student may have and two letters of referen- one of which should be from someone who can speak to the student's volunteer experiences with the elderly, while the other should comment on the extracurricular
Qualification(s): All students in the CSAHS 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 not required.	involved in the life of the College and the University. Apply by letter to the CSAI Undergraduate Awards Committee, Dean's Office by April 1st, including a statem that outlines the student's experience working with the elderly in a volunteer capac as well as extracurricular involvement the student may have and two letters of referen one of which should be from someone who can speak to the student's volunt experiences with the elderly, while the other should comment on the extracurricul activities of the student.
Qualification(s): All students in the CSAHS 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 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.	Donor(s):       Mr. Robert N. Carter and Family         Qualification(s):       Undergraduate student in the CSAHS who has completed at least 10 credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will b given to students in the BASc program majoring in Gerontology.
Qualification(s): All students in the CSAHS 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 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:       1 Silver medal         H.H. Harshman Foundation Scholarships [I0123]	<ul> <li>involved in the life of the College and the University. Apply by letter to the CSAI Undergraduate Awards Committee, Dean's Office by April 1st, including a statement that outlines the student's experience working with the elderly in a volunteer capace as well as extracurricular involvement the student may have and two letters of referent one of which should be from someone who can speak to the student's volunte experiences with the elderly, while the other should comment on the extracurriculactivities of the student.</li> <li>Donor(s): Mr. Robert N. Carter and Family</li> <li>Qualification(s): Undergraduate student in the CSAHS who has completed at least 16 credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will be given to students in the BASc program majoring in Gerontology.</li> <li>Amount: 1 award of \$1,000</li> </ul>
Qualification(s):       All students in the CSAHS 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 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:       1 Silver medal         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 April 1, demonstrating leadership.	<ul> <li>involved in the life of the College and the University. Apply by letter to the CSA Undergraduate Awards Committee, Dean's Office by April 1st, including a statem that outlines the student's experience working with the elderly in a volunteer capace as well as extracurricular involvement the student may have and two letters of referent one of which should be from someone who can speak to the student's volunt experiences with the elderly, while the other should comment on the extracurriculactivities of the student.</li> <li>Donor(s): Mr. Robert N. Carter and Family</li> <li>Qualification(s): Undergraduate student in the CSAHS who has completed at least 1 credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will the given to students in the BASc program majoring in Gerontology.</li> <li>Amount: 1 award of \$1,000</li> <li>Joan (Ellerington) Tanner Memorial Scholarship [C0279]</li> <li>This endowment fund has been established by her family in memory of Mrs. Jog (Ellerington) Tanner, a 1957 graduate of the Macdonald Institute. Application 5</li> </ul>
Qualification(s): All students in the CSAHS 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 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:       1 Silver medal         H.H. Harshman Foundation, long time supporters of the Department of Family Relations and Applied Nutrition, provides these scholarships. Apply by letter to the	<ul> <li>involved in the life of the College and the University. Apply by letter to the CSA Undergraduate Awards Committee, Dean's Office by April 1st, including a statem that outlines the student's experience working with the elderly in a volunteer capace as well as extracurricular involvement the student may have and two letters of referer one of which should be from someone who can speak to the student's volunt experiences with the elderly, while the other should comment on the extracurriculactivities of the student.</li> <li>Donor(s): Mr. Robert N. Carter and Family</li> <li>Qualification(s): Undergraduate student in the CSAHS who has completed at least 1 credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will given to students in the BASc program majoring in Gerontology. 1 award of \$1,000</li> <li>Joan (Ellerington) Tanner Memorial Scholarship [C0279]</li> <li>This endowment fund has been established by her family in memory of Mrs. Journal of the student is the student of the student in the student of the student.</li> </ul>

56	IX. Scholarships and Other Awards, Bachelor of Applied Scien
John Eccles Scholarship [I0093]	Leonard Conolly Exchange Student Scholarship [10446]
Nominations, accompanied by appropriate resumes, are to be submitted to Student         Financial Services by April 1.         Donor(s):       Student Housing Services         Qualification(s):       Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.         Amount:       1 award of \$600         Katherine Fuller Scholarship [10107]         Established in 1931 to honour Mrs. Katherine Fuller, the Superintendent of Macdonald	<ul> <li>Established by students, faculty, staff and friends to honour Prof. Leonard Conoll professor of drama, Chair of the Department of Drama, 1981-88, and Associa Vice-President Academic, 1988-1992. Apply to the Centre for International Program by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by th Centre for International Programs, will be based on assessment of (a) a one-pag submission describing the significance of the student visiting Guelph to the program of (c) consistent high performance in the course work completed, as documented by transcript of program grades to date, submitted by the home university.</li> <li><i>Donor(s):</i> Students, staff, faculty and friends of Dr. Leonard Connolly Qualification(s): Full-time visiting exchange undergraduate or graduate student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities)</li> </ul>
Hall from 1904 until her retirement in 1931. Apply to the FRAN Undergraduate Awards Committee by April 1 with a one-page description of contributions to student activities.	available in the Centre for International Programs).Amount:1 award of \$1,000
The award will be given to the student who has made the greatest contribution to student activities in residence or on campus.	Mac '69 Scholarship [I0082]
Donor(s):       Mac-FACS-FRAN Alumni Association         Qualification(s):       Full-time students registered in a program offered by the Department of Family Relations and Applied Nutrition, who have completed between 5.0 and 10.0 credits with a minimum cumulative average of 70%.         Amount:       1 award of \$500         Kenneth W. Hammond Award [10045]	<ul> <li>Established in 1976, by the class of Mac '69, in memory of classmate Patricia Cosgrov Apply to Department of Family Relations and Applied Nutrition by April 1.</li> <li>Donor(s): Class of Mac '69 Qualification(s): Students who have completed their 2nd or 3rd semester of the BAS program by April. Preference will be given to students showing gener proficiency in both curricular and extracurricular work.</li> <li>Amount: 1 award of \$600</li> </ul>
The evaluation of the student will be based on the final essay in the "Environmental	Mac-FACS-FRAN Alumni Association Scholarship - Family Relations and Applie
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 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	Awarded to the student with the highest cumulative average. Application 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
Kip Hunter Prize [10139]	Marie-Pier Lamoureux Memorial Scholarship [I0359]
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 the end of the 12th week of the Winter semester.         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	<ul> <li>Established by family and friends in memory of Marie-Pier Lamoureux-Jones, a 196 graduate of the Applied Human Nutrition major in the BASc program. A student matonly receive this scholarship once. Application not required.</li> <li>Donor(s): David Jones and friends</li> <li>Qualification(s): Full-time undergraduate student entering semester 5, 6 or 7, who is enrolled in the Applied Human Nutrition major in the BASc program The scholarship will be awarded to the student with the highest cumulative academic standing.</li> <li>Amount: 1 award of \$1,000</li> </ul>
Lambda Foundation Scholarship in LBGT Studies [10591]	May B. Stewart Scholarships [10270]
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. 	<ul> <li>Established through the W.C. Macdonald Company of Montreal. Application not require Donor(s): W.C. McDonald Company</li> <li>Qualification(s): Students with the highest cumulative average in the Child, Youth ar Family and Gerontology majors entering semester level 5, 6, or 7. Students may receive only one May B. Stewart Scholarship.</li> <li>Amount: 2 awards of \$200</li> <li>Morton and Pauline Schmidt Memorial Scholarship [10429]</li> <li>Established by the family and friends of Morton G. and Pauline E. Schmidt of Kitchene Ontario to recognize their appreciation of their daughters' education at the Universi of Guelph. Application not required.</li> <li>Donor(s): Eleanor E. Wein</li> <li>Qualification(s): Student in semester 5 or above of the Applied Human Nutrition major of the BASc program with at least a 70% cumulative average and wh does not hold another major scholarship concurrently. If two student are equally qualified, the student showing the greatest improvement in semester average will receive the award.</li> <li>Amount: 1 award of \$1,500</li> </ul>
	Nelson Women's Institute Scholarship [I0587]

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 \$400

A. Scholarships	and Other Awards, Bachelor of Applied Science
Ontario Wome	n's Institute Scholarship [I0160]
	Federated Women's Institute of Ontario. Apply to the FRAN Awards April 1 with a CV/resume and cover letter outlining involvement in
	Federated Women's Institutes of Ontario
Donor(s): Qualification(s)	Residents of Ontario with a minimum cumulative average of 70% who have completed at least 4.00 credits in the B.A.Sc. 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
	m '83 International Ploughing Match (FRAN) Scholarship [I0340]
	nt Financial Services by April 1 with a completed Financial Need m (N.A.F.) and a letter outlining extracurricular activities.
Donor(s):	Ottawa-Carleton International Ploughing Match Committee 1983
	Students from the Region of Ottawa-Carleton in the year they have
~ • • • •	completed semester 2 in the BASc program and who have a cumulative average of 70% (minimum) standing in semesters 1 and 2. Participation
	in extracurricular activities and financial need will be considered.
Amount:	2 awards of \$1,000
Priscilla and St	anford Reid Trust Prize [10597]
	onour the first chair of the History Department, Stanford Reid, and his
Presbyterianism	Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the ering 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
Sister Marv Fr	ederick Sheehan Award [C0216]
	he Ontario Dietetic Association Public Service Foundation in memory and professional leadership shown by Sister Mary Frederick Sheehan
	k at St. Michael's Hospital, Toronto. Application not required.
Donor(s):	The Ontario Dietetic Association Public Service Foundation
Qualification(s)	Students graduating from the Applied Human Nutrition major of the
	BASc program who have been accepted to a Dietetic Internship are eligible. The recipient will be the student with the highest academic
	standing.
Amount:	1 award of \$250
Stephanie Wilk	en Volunteer Award [I0449]
Student Financia	he Wilken family in memory of Stephanie Wilken, BA 1995. Apply to I Services with letter indicating the kind and extent of volunteer activities Centre by October 1. Selection committee is the Senate Committee on
Awards on the re	commendation of the Student Wellness Educator at the Wellness Centre.
Donor(s):	Bev and Darlene Wilken
Qualification(s)	<ul> <li>Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The</li> </ul>
	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
The Jack and L	illian MacDonald Scholarship [E0379]
	, and colleagues of Lillian MacDonald and Dr. Jack MacDonald,
established a sch of post-secondar	Academic, of the University of Guelph from 1986 to 1995, have olarship that recognizes their commitment to increasing the accessibility y education to aboriginal persons. Apply by letter to Student Financial
Services by Apr	
Donor(s): Qualification(s)	Jack and Lillian MacDonald : In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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
Amount	of the GRPI who has the highest cumulative average at the University.
Amount:	of the GRPI who has the highest cumulative average at the University. 1 award of \$900

Thomas H. Peters Scholarship [10233]				
Application not required.				
Donor(s): Qualification(s): Amount:	Friends and associates of Thomas H. Peters 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. 1 award of \$250			
	t Beekeeper's Association Scholarship [I0285]			
	offered by the Toronto District Beekeepers Association in memory of			
	cLeod, past chair of the Association. Application not required.			
	Mr. Jack Robinson The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. 1 award of \$500			
Amount:	kers Local 4120 Scholarship [10293]			
Donor(s):	Financial Services, by January 31. United Steelworkers LU4120			
	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. 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, provided that a minimum of 70% standing is obtained. 1 award of \$1,000			
Van Stralen and Van Der Hoeven Memorial Scholarship [I0296] Application will be made by nominations signed by 4 currently registered students forwarded to Student Financial Services by April 1. Presentations are made in the Fall semester.				
Donor(s):	Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family			
	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. 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.			
Amount:	2 awards of \$400			
Vera Ayres MacBeth Scholarship [I0159] Mr. Bernard Ward has established this scholarship in memory of Mrs. Vera Ayres MacBeth, a 1923 graduate of the Macdonald Institute. Application not required.				
Donor(s):	Mr. Bernard A. Ward Full-time student in the BASc program with high academic standing. 1 award of \$400			
Virginia McEwen Memorial Scholarship [I0186]				
An endowment has been established by the family and friends of Virginia McEwen, an alumna of Macdonald Institute, Class of '57 (B.H.SC.), recipient of a University of Guelph Master's degree in 1971 and an enthusiastic participant in a wide range of activities of the University of Guelph Alumni Association for many years. Application not required.				
Donor(s): Qualification(s):	Dr. Freeman McEwen and family Outstanding students in the BASc co-op program. The first scholarship is awarded on admission to a student's first co-op work semester on the basis of academic performance in all courses completed prior to the first co-op work semester. The second scholarship is awarded to a student entering the second co-op work semester, based on an outstanding rating both on the student's Work Report and the Supervisor's Report on the student's performance, as well as on the basis of academic performance in all courses completed prior to the second co-op work semester.			

second co-op work semester. Amount: 2 awards of \$750

58	IX. Scholarships and Other Awards, Bachelor of Applied Science	
W.C. Winegard Medal [C0311]	Erin Demers Memorial Scholarship [I0406]	
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 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 Gold medal	<ul> <li>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 April 1 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.</li> <li><i>Donor(s):</i> Family and friends of Erin Katrina Demers</li> <li><i>Qualification(s):</i> A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This</li> </ul>	
W.N. Vaughan Medal [C0299]	award is payable in the second year (ie. completed 5.0 course credits)	
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 not required.	<i>Amount:</i> 1 award of \$2,000	
Donor(s): Friends of Walter N. Vaughan	Euclid-Hitachi Scholarships [I4517]	
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 Medal	Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontaric 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. Awarded in the Winter semester	
In-course Scholarships with Financial Need	ACCESS AWARD	
<ul> <li>3M Canada Scholarships [10564]</li> <li>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. Awarded in the Winter semester.</li> <li>Donor(s): 3M Canada Company</li> </ul>	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	
<i>Qualification(s):</i> Students entering Year 4 (ie. having completed a minimum of 15.0	FACS '85 Heritage Scholarship [14537]	
<ul><li>credits) with demonstrated financial need and high academic achievement.</li><li>Amount: 2 awards of \$1,000</li></ul>	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 cover letter outlining the extent	
<b>City of Guelph 175th Anniversary Scholarship [I0515]</b> 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	of community volunteerism or involvement in an on-campus student club, particularl as it relates to your area of study. To be considered for this award, you must list it o your N.A.F. ACCESS AWARD.	
Services with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7.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. <i>Donor(s):</i> <b>The Guelph Community Foundation</b> <i>Qualification(s):</i> Students registered in any degree program with more than 5.0 credits and less than 10.5 credits of full-time study, a minimum cumulative	Donor(s):The Class of FACS '85Qualification(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	
70% average, demonstrated leadership and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian	George A. Gray O.A.C. '51 Varsity Scholarships [10487]	
citizens or permanent residents at the time of application.	Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a	
Amount:       1 award of \$2,000         Eleanor Morgan & Bill Archibald Scholarships [14540]	great player of the game. Apply to Student Financial Services with a letter describing on- and off-campus extra-curricular activities and a completed Financial Need Assessmen	
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. Awarded in the Winter semester.         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	<ul> <li>Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financia need. Preference will be given to members of the varsity football team. Examples or leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation or university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the winter semester.</li> <li><i>Donor(s):</i> Mrs. George A. Gray</li> <li><i>Qualification(s):</i> Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have demonstrated leadership.</li> </ul>	

Amount: 2 awards of \$1,250

Graham Family Incentive Scholarship [I4506]	Robert, Louis and Helen Shaw Memorial Degree Scholarships [I4520]
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. Awarded in the Winter semester. ACCESS AWARD	Established by the Shaw Scholarship Committee with the assistance of the government's OSOTF program. Apply with a letter, including a summa agricultural activities and a completed Financial Need Assessment Form (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).	involvement in local agricultural activities. Preference wil
Amount: 1 award of \$5,000	to first year students from Peterborough County. Additional must meet the government-mandated terms for receipt of
Guelph Varsity Athletic Accessibility Scholarship [10518]	award (see General Statements on Awards).
Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October	Amount: Several awards of \$1,000
7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.	Tara Lynn Giuliani Memorial Award [10375] In memory of Tara Lynn Giuliani, a bright young woman, who did not let he stand in the way of her studies at the University of Guelph. Apply to the Students with Disabilities by November 25.
Donor(s):       Alumni and friends of the University of Guelph         Qualification(s):       Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0	Donor(s):       The Giuliani Family         Qualification(s):       Most academically promising applicant with a demonstrate and having financial need.         Amount:       1 award of \$500
credits).	University of Guelph Retiree Association Degree Scholarship [I0569]
Amount: 2 awards of \$1,250	This bursary is available to students who are related to a member of the U child, grand-child, or great grand-child. Selection will be based on t
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 cover 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	<ul> <li>demonstration of financial need. Apply to Student Financial Services by (a Financial Need Assessment Form (N.A.F.) and a letter indicating the relationship to the U.G.R.A. member.</li> <li>Donor(s): University of Guelph Retirees Association (U.G.R.A.)</li> <li>Qualification(s): Students related to a member of U.G.R.A. that are registed program with a minimum 75% cumulative average in t semester of full-time studies and demonstrated financia Amount: 1 award of \$1,000</li> </ul>
Donor(s): Nancy Sawyer, Mary Helen Simpson, their families, and Belle Shirlaw	Walter and Marion MacDougald Scholarship [14530]
Qualification(s): A student in any major of the B.A.Sc. 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).         1 award of \$1,000	Established by the family of Walter and Marian MacDougald on the 50 anniversary of their parents, in recognition of their gift of life-long learning children, with the assistance of the Ontario government's OSOTF program Student Financial Services by October 7 with a Financial Need Assessment Fo To be considered for this award, you must list it on your N.A.F. and include that outlines your interests in food supply, utilization, farmland conservation management. Preference will be given to students enrolled in a program
Kathleen and R. Douglas Kennedy Scholarship in CSAHS [10546]	food supply or utilization, farmland conservation or woodlot management
<ul> <li>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. Awarded in the winter.</li> <li><i>Donor(s):</i> Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy <i>Qualification(s):</i> Students registered in the Department of Family Relations and Applied Nutrition with a minimum cumulative average of 70% and</li> </ul>	Donor(s): Doug MacDougald, D.V.M.
demonstrated financial need. Amount: 1 award of \$1,000	William & Nona Heaslip Scholarship [10589]
Mrs. Elsa Hevenor Stewart Scholarships [10271]	Students must apply to Student Financial Services by submitting a Fina Assessment Form (N.A.F.) by October 7. Recipients of this award can have
Endowment fund provided by the estate of Mrs. Elsa H. Stewart, formerly of Pakenham, Ontario, to students with financial need. Awarded in the Winter semester. 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. Awarded in the winter. Selection will be based on the greatest need.	renewed for up to 3 years provided they continue to demonstrate financia maintain a minimum 70% cumulative average of full-time study. Stude considered for this award automatically once a N.A.F has been submitted by t date. <i>Donor(s):</i> <b>The William and Nona Heaslip Foundation</b> <i>Qualification(s):</i> Students that have completed 4.0 credits but no more than
Donor(s):       The Estate of Elsa Hevenor Stewart         Qualification(s):       Students enrolled in the BASc program who have completed at least 15 credits but no more than 17.5 credits with demonstrated financial need.         Amount:       2 awards of \$1,000	<i>Amount:</i> in any degree program; are a Canadian citizen/permanent have a minimum 70% cumulative average; and demonstra need. <i>Amount:</i> 2 awards of \$15,000

blished by the Shaw Scholarship Committee with the assistance of the Ontario rnment's OSOTF program. Apply with a letter, including a summary of local ultural activities and a completed Financial Need Assessment Form (N.A.F.), to ent Financial Services by October 7. ACCESS AWARD The Shaw Scholarship Committee r(s): ification(s): Students registered in the B.A.Sc., 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). unt: Several awards of \$1,000 Lynn Giuliani Memorial Award [10375] emory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness in the way of her studies at the University of Guelph. Apply to the Centre for ents with Disabilities by November 25. The Giuliani Family r(s): ification(s): Most academically promising applicant with a demonstrated disability and having financial need. 1 award of \$500 unt: ersity of Guelph Retiree Association Degree Scholarship [10569] bursary is available to students who are related to a member of the U.G.R.A. as grand-child, or great grand-child. Selection will be based on the greatest onstration of financial need. Apply to Student Financial Services by October 7 with nancial Need Assessment Form (N.A.F.) and a letter indicating the name of and ionship to the U.G.R.A. member. University of Guelph Retirees Association (U.G.R.A.) r(s): lification(s): Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need. 1 award of \$1.000 unt: er and Marion MacDougald Scholarship [14530] blished by the family of Walter and Marian MacDougald on the 50th wedding versary of their parents, in recognition of their gift of life-long learning to their five ren, with the assistance of the Ontario government's OSOTF program. Apply to ent Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) e considered for this award, you must list it on your N.A.F. and include a statement utlines your interests in food supply, utilization, farmland conservation or woodlot gement. Preference will be given to students enrolled in a program involved in supply or utilization, farmland conservation or woodlot management. ACCESS ARD. Doug MacDougald, D.V.M. r(s): ification(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). 2 awards of \$1,000 unt: am & Nona Heaslip Scholarship [10589] ents must apply to Student Financial Services by submitting a Financial Need ssment Form (N.A.F.) by October 7. Recipients of this award can have this award ved for up to 3 years provided they continue to demonstrate financial need and tain a minimum 70% cumulative average of full-time study. Students will be dered for this award automatically once a N.A.F has been submitted by the deadline r(s): The William and Nona Heaslip Foundation lification(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.

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60	IX. Scholarships and Other Awards, Bachelor of Applied Science	
Yeandle Family Scholarships [13546]	Class of '72: 25th Reunion Bursaries [I3512]	
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. <i>Donor(s):</i> The Estate of Audrey Yeandle	Established by the Class of '72: 25th Reunion Fund with the assistance of the Ontar government's OSOTF program to support students who wish to study full-time. App 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 has been submitted by the deadline date. Awarded in the Winter semester. ACCES AWARD. Donor(s): Class of '72: 25th Reunion	
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).	Donor(s):       Class of 72, 25th Remnon         Qualification(s):       Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of a OSOTF award (see General Statements on Awards).         Amount:       3 awards of \$1,000	
Amount:         Several awards up to \$2,000           In-course Awards with Financial Need	Elizabeth Burton Bursaries [13503]	
Archie and Isabelle (Cook) Rintoul Bursary (FRAN) [I3018]	Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program provides bursaries to students with demonstrated financial need. Apply with a complete	
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. Awarded in the winter.         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.	<ul> <li>Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 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.</li> <li>Donor(s): Mrs. Elizabeth Burton</li> <li>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).</li> <li>Amount: Several awards of up to \$2000</li> </ul>	
Amount:     1 award of \$1,000       Bette Stephenson Accessibility Bursary [I3054]	George and Margaret J. Miles Memorial Bursary [I3544]	
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. <i>Donor(s):</i> University of Guelph <i>Qualification(s):</i> 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. <i>Amount:</i> 3 awards to a maximum of \$1,500 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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> Brinson Partners Inc.	<ul> <li>Established by the family to honour the memory of the parents, George and Margaret Miles, life long supporters of education. Apply with a completed Financial Net Assessment Form (N.A.F.) and a letter describing involvement in extra-curricul activities to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD</li> <li>Donor(s): Established by the Miles Family</li> <li>Qualification(s): All undergraduate arts and social science students with demonstrate 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 inclustudent government, charitable organization, volunteer work, Big Brothers/Sisters, contributions to school and/or community, etc.). Additionally, students must meet the government-mandated terms freecipt of an OSOTF award (see General Statements on Awards).</li> <li>Amount: 2 awards of \$1,500</li> <li>Gryphon Investment Council Bursaries [I3513]</li> <li>Established by Gryphon Investment Counsel, with the assistance of the Ontar government's OSOTF program. Awarded in the Winter semester. Apply with a complete Financial Need Assessment Form (N.A.F.) to Student Financial Services by October Students will be considered for this award automatically once a N.A.F has been submittiby the deadline date. Students will be considered for this award automatically once and the students are submitted.</li> </ul>	
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.) to Student Financial 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.	N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCES         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 a OSOTF award (see General Statements on Awards).         Amount:       2 awards of \$1,500         Guelph Compassionate Health Bursary [I3061]         This bursary has been established and approved by the Student Health and Dentitive Student Health Active Student Healtheactive Student Healtheactive Student Healthe	
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	Committee to assist students up to 80% of unforeseen health needs above and beyon the benefits offered through the mandatory University of Guelph student health pla Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physicia recommendation, cost estimates and physician contact information to the Awards Office Student Financial Services. The application will be reviewed throughout the semest to handle emergencies immediately. <i>Donor(s):</i> <b>Student Health and Dental Plan Reserve</b> <i>Qualification(s):</i> Students must be registered on the University of Guelph Student Heal	
	Qualification(s): Students nuts: be registered on the Oniversity of Oueph Student Heal         Plan. The student must require treatment for a condition not current or completely covered by the Student Health Plan.         Amount:       Several varies to a maximum \$1,000	

Guelph Student Assistance ACCESS Bursaries [13556]	International Student Bursaries [13009]
These bursaries have been established and approved by undergraduate students through	Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the
student referendum with the aid of the Ontario government's OTSS program to assist	International Student Advisor.
undergraduate and University of Guelph campus diploma students in financial need.	Donor(s): Mrs. Norma L. Valeriote
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	<i>Qualification(s):</i> Students who are citizens of Third World countries, as defined by the
Student Loan Program (CSLP). Apply to Student Financial Services with a completed	United Nations, who are registered in a degree or diploma program and who demonstrate financial need.
Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered	Amount: Several of varying amounts
for this award automatically once a N.A.F has been submitted by the deadline date. Typically, awarded in the Winter semester. ACCESS AWARD.	Irvine and Grace Black Memorial Bursary [I3051]
Donor(s): Central Student Association	Established in memory of Irvine and Grace Black, by friends and family to recognize
Qualification(s): Full-time undergraduate students registered in any degree program	their many contributions to young people. Irvine, a well-known sheep breeder, was a
with demonstrated financial need. Additionally, students must meet	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
the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).	Services with a completed Financial Need Assessment Form (N.A.F.) and a letter
Amount: Several awards of varying amounts up to \$1,000	outlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded
Guelph Student Assistance Program [I3056]	in the Winter semester.
These bursaries have been established and approved by undergraduate students through	Donor(s):         Family and friends of Irvine and Grace B.L.A.ck           Qualification(s):         Full-time undergraduate students registered in any degree program
student referendum to assist undergraduate and University of Guelph campus diploma	with demonstrated financial need. Preference will be given to applicants
students in financial need. Preference will be given to students who are not eligible for	who are, or have been, active in the 4-H Club and/or a Women's
provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial	Institute. Amount: 1 award of \$500
Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.	
Typically, awarded in the Winter semester.	Marie Hardacre Bursary [13548]
Donor(s): Undergraduate Students	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
<i>Qualification(s)</i> : Full-time undergraduate students registered in any degree program with demonstrated financial need.	Applied Nutrition. Apply by October 7 to Student Financial Services with a completed
Amount: Several awards of varying amounts up to \$1,000	Financial Need Assessment Form. Students will be considered for this award
Helen Mahon Memorial Bursary [I3063]	automatically once a N.A.F has been submitted by the deadline date. Awarded in the winter semester. ACCESS AWARD.
Established in memory of Helen Mahon, a longtime employee of the University of	Donor(s): Mrs. A. Marie Hardacre
Guelph and who, following the death of her husband, raised three young children alone,	<i>Qualification(s):</i> Students registered in any academic program in the College of Social
all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and indicate on the N.A.F that you wish to	and Applied Human Sciences with demonstrated financial need.
be considered for this award. Awarded in the winter.	Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Donor(s): Family and Friends of Helen Mahon	Amount: 1 award of \$4,500
Qualification(s): Students registered in any program who come from a family where	Mary I. Whitelock Bursaries [13524]
one parent is deceased.           Amount:         1 award of \$500	Established by the estate of Mary I. Whitelock, a friend of the University, with the
Howard and Myrtle Rogers Bursaries [13537]	assistance of the Ontario government's OSOTF program, to assist students who wish to
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario	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
government's OSOTF program. Apply with a completed Financial Need Assessment	will be considered for this award automatically once a N.A.F has been submitted by the
Form (N.A.F.) to Student Financial Services by October 7. Students will be considered	deadline date. Awarded in the Winter semester. ACCESS AWARD.
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): Estate of Mary I. Whitelock
	<i>Qualification(s):</i> Students with demonstrated financial need. Additionally, students must
Donor(s):         The Estate of Howard and Myrtle Rogers           Qualification(s):         Students with demonstrated financial need. Preference will be given	meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
to students from Wellington County. Students are encouraged to apply	Amount: 13 awards of \$2,000
for an award in each year of study. The award may have been held in	Mildred Taylor Misener Bursaries [I3012]
previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for	Dr. Andrew Grant Misener, an alumnus of the University of Guelph, has provided this
receipt of an OSOTF award (see General Statements on Awards).	endowment fund. Apply by October 7 to Student Financial Services with a completed
Amount: 10 up to \$2,000	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. Awarded in the
International Emergency Medical Aid Assistance [I3059]	winter.
The University of Guelph provides support to International undergraduate students that	Donor(s): Dr. Andrew Grant Misener, President of Friends of the University of Guelph,
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	<b>Inc.</b> <i>Qualification(s):</i> Students in the RASs program with astablished financial need
to the International Student Advisor, in the Centre for International Programs office, by	<i>Qualification(s):</i> Students in the BASc program with established financial need. <i>Amount:</i> Several varies
completing an International Student Financial Need Assessment Form (N.A.F.) and	Ontario Co-operatives R.P. Forshaw Bursary [13013]
submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.	The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have
Donor(s): University of Guelph	established this bursary. Apply to Student Financial Services with a completed Financial
<i>Qualification(s):</i> Any International student registered in a degree program at the	Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.
University of Guelph with a minimum registration of 1.50 course	Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw
credits. Amount: Several awards of varying amounts	<i>Qualification(s)</i> : Undergraduate students who have financial need. Preference may be
Amount: Several awards of varying amounts	given to candidates who have been or are members of a co-operative
	or credit union.
	Amount: 1 award of \$400

Last Revision: January 28, 2008

52	IX. Scholarships and Other Awards, Bachelor of Applied Science
Robert Auger Humanitarian Bursary [I3058]	University of Guelph International Bursary [I3048]
This award, of up to \$500, has been established through the generosity of staff in t Office of Registrarial Services, family and friends of Robert Auger, a former Associa Registrar at the University of Guelph. It is intended as an emergency fund to ass students who unexpectedly find themselves in difficult financial circumstances, to provi grocery, and textbook vouchers.	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
Donor(s):         Office of Registrarial Services           Qualification(s):         Students who require assistance through this fund should apply in confidence to the Assistant Registrar, Financial Aid, Student Financia Services.           Amount:         Several awards of \$500	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
Scotiabank Bursaries [13532]	University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037
Established by Scotiabank, with the assistance of the Ontario government's OSOT program, to assist students with financial need to continue their studies as full-tir students. Distributed in the Winter semester. Apply with a completed Financial Ne Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will considered for this award automatically once a N.A.F has been submitted by the deadli date. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> Scotiabank <i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally,	TF       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. Awarded in the Winter semester.         be       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 and a minimum of 2.0 course credits completed.
students must meet the government-mandated terms for receipt of a	
Amount: OSOTF award (see General Statements on Awards). 2 awards of \$1,500	The University of Guelph offers in-course bursaries to students who have demonstrated
Stoney Creek Women's Institute Bursaries [I3017]	financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.
Established by the Stoney Creek Women's Institute to commemorate the Sixtie Anniversary of its founding. Apply by October 7 to Student Financial Services with completed Financial Need Assessment Form (N.A.F.). Students will be considered f this award automatically once a N.A.F has been submitted by the deadline date. Award in the winter.	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 and a
Donor(s): Stoney Creek Women's Institute	University Police Bursaries [13019]
Qualification(s): Students from the region of Hamilton-Wentworth in the B.A.Sc.         program with demonstrated financial need.         Amount:       2 awards of \$250	The University Police have made available a number of bursaries. Apply to Studer Financial Services with a completed Financial Need Assessment Form (N.A.F.) b
University of Guelph Access Bursaries [13522]	October 7. Students will be considered for this award automatically once a N.A.F ha been submitted by the deadline date.
Provided by alumni and friends of the University, with the assistance of the Ontar government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelp diploma students who wish to study full-time but who need financial support to do s Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financi Services by October 7. Students will be considered for this award automatically once N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCES	b)       Dono((a).         Qualification(s):       Full-time undergraduate and graduate students who have financial need.         Amount:       Several of various amounts         Variantic Student Accientation Parameter (12057)
AWARD. Variable amounts from \$500 to \$2,000         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 a OSOTF award (see General Statements on Awards).	These bursaries have been established and approved by the University of Guelph assist undergraduate and University of Guelph campus diploma students in financi need. Apply to Student Financial Services with a completed Financial Need Assessme Form (N.A.F.) by October 7. Typically, awarded in the Winter semester. <i>Donor(s):</i> University of Guelph
Amount: Several awards of \$500, Several awards of \$2,000	Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students
University of Guelph Alumni Association Access Bursaries [I3523] Established by the University of Guelph Alumni Association, with the assistance of t Ontario government's OSOTF program, to support students who wish to study full-tir but who need financial support to do so. Apply with a completed Financial Ne	he such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).
Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will	be
considered for this award automatically once a N.A.F has been submitted by the deadli date. Awarded in the Winter semester. ACCESS AWARD.	
Donor(s):         University of Guelph Alumni Association	Aeroplan International Travel Grant [T0604] Established to provide students with an airline ticket to international destinations served
Qualification(s): Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms freceipt of an OSOTF award (see General Statements on Awards).	by Air Canada or its Star Alliance partners. Apply by submitting a Financial Nee- Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Studen
Amount: 2 awards of \$1,000	Financial Services. Award is subject to the availability of Aeroplan miles and may no
University of Guelph Child Care Bursaries [I3053]	be available every year. Donor(s): Aeroplan
In order to provide accessible child care to students with (a) child(ren), the Universi of Guelph offers bursaries to students who have demonstrated financial need. Apply Student Financial Services, with a completed Financial Need Assessment Form (N.A.I by October 7. Awarded in the Winter semester.	to F.) <i>Qualification(s):</i> Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation in University of Guelph travel activities related to their academic
Donor(s):         University of Guelph           Qualification(s):         Students, supporting (a) child(ren) who demonstrate greatest financian need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and	Amount: I plana tigkat par goob comstar
Amount: Several awards of up to \$2,000	al

#### 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 profe	essional career in resource management and conservation and a special
interest in helpin	ng young people. The funds are given to provide twenty-five travel grants.
These travel gra	nts are offered to assist students in attending conferences, courses, co-op
student exchange	ges or study abroad programs in these areas. Students may receive this
grant only once.	Apply to Student Financial Services. Deadline dates are June 1 for Fall
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

Donor(5).	
Qualification(s):	Students in semester 3 and above. Students must have at least a 70%
	average and a primary area of interest 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 Bursary [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 by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1. 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<br/>study, Masters students in the first year of study, and Doctoral students<br/>in the first three years of study are eligible to be considered. Applicants<br/>must provide documentation that they have approval from the Hebrew<br/>University of Jerusalem (i) to take courses and (ii) for the period of<br/>the visit. Students must also arrange appropriate University of Guelph<br/>approvals for a "Letter of Permission" prior to applying. Additionally,<br/>students must meet the government-mandated terms for receipt of an<br/>OSOTF award (see General Statements on Awards).Amount:3 Awards with varying amounts

# 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 description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. ACCESS AWARD.

#### Donor(s): The Estate of Richard Hungerford

201101 (5).	0
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 undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.

#### Donor(s): University of Guelph

Qualification(s):	Registered undergraduate and graduate students that have completed
	5.0 credits with demonstrated financial need who have a minimum
	70% cumulative average in the last two semesters of full-time
	equivalent study are eligible to apply. The value of the award will
	depend on the assessed financial need. The scholarship can cover
	additional costs of travelling outside of Canada including: airfare,
	administrative costs, and differential costs of accommodation.
Amount:	Several up to \$1,500

64	IX. Scholarships and Other Awards, Bachelor of Art
Bachelor of Arts	Dr. C. John Small Commonwealth Scholarship [I0611]
<ul> <li>Please refer to the General Statement on Awards for:</li> <li>Award Eligibility</li> <li>ACCESS Awards Eligibility</li> <li>Ontario Student Opportunity Trust Fund (OSOTF) Program</li> <li>How Awards are Paid</li> <li>The University reserves the right to amend awards subject to the availability of</li> </ul>	Established in honour of Dr. C. John Small, OAC BSA '42, Hon D. Law '75, and hi 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 th program of study at the partner exchange University, (b) two faculty references of n 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
funds.	semesters with the above mentioned documents. Donor(s): Mrs. Jean K. Small
Entrance Scholarships	Qualification(s): Full-time visiting exchange students registered for at least one semester
Alumni Entrance Merit Scholarship, College of Arts [E0477] Established the College of Arts and the Development and Public Affairs Office. Application not required.	from a Commonwealth developing country who are pursuing studie or conducting research in the area of agriculture and rural developmen 1 award of \$1,500
Donor(s): Development and Public Affairs Office	Dr. Jack Britney Scholarship [E0034]
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	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 an Extension Education to a graduate student from any of the O.A.C. Diploma program
Amos & William Lowe Memorial Scholarship [E0158]	offered at any of the University of Guelph campuses that enters a degree program at th
<ul> <li>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 not required. Two awards of \$1,250 paid in two installments of \$625.</li> <li>Donor(s): William B. Lowe and Amos Edgar Lowe</li> <li>Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College.</li> </ul>	<ul> <li>University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main campus.</li> <li>Donor(s): Friends and Associates</li> <li>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. Preference will be given to Graduates of the Diploma in Agriculture program.</li> <li>Amount: 1 award of \$1,200</li> </ul>
Amount:       2 awards of \$1,250         Angelo and Frank Agro Undergraduate Scholarship [E0520]	Earl B. MacNaughton Entrance Scholarships [E0172]
This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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	<ul> <li>Established by friends, faculty, staff, alumni and students of the University to honou Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application not required.</li> <li>Donor(s): Earl B. MacNaughton</li> <li>Qualification(s): Students with high academic standing, entering an honours program in the College of Physical and Engineering Science. Emphasis will b given to academic achievement in high school science and mathematic Amount: 4 awards of \$1,000</li> </ul>
county, provincial and national 4H competitions. Recipients must maintain full-time	Elite Swine Entrance Scholarship [E0532]
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:       4 awards of \$7,000	This award is provided by Elite Swine Inc. to assist students entering an O.A.C undergraduate Program. High schools will forward nominations to the O.A.C. Award Committee by September 15.         Donor(s):       Elite Swine Inc.         Qualification(s):       High school graduates who have applied to O.A.C. undergraduate programs, based on admission average, contributions to their school
<b>Board of Governors' Scholarships [E0317]</b> 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	<ul> <li>and communities and on their potential to become leaders in society</li> <li>Preference will be given to students with a strong interest in animal science, particularly swine production.</li> <li>Amount: 5 awards of \$1,000</li> </ul>
of full-time study. Students who fail to qualify for a payment may re-qualify by	Frederick Hung Memorial Award [E0320]
subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).	The colleagues and family of the late Prof. Frederick Hung make available an entrance award to encourage students to major in Geography. Application not required.
Donor(s):       Board of Governors         Qualification(s):       Outstanding students entering semester 1         Amount:       25 awards of \$8,000	Donor(s):       The family and friends of Frederick Hung         Qualification(s):       Student entering the Bachelor of Arts (Geography Major) degree program directly from high school. The award will be given to the student who has achieved the highest mark in grade 12U/M Geograph or its equivalent and at least an 80% average overall.         Amount:       1 award of \$900
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	Gordon W. Innes Scholarship [E0140]
attract women to a profession that is largely comprised of men. Application 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. 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	Application not required.         Donor(s):       Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodston Agricultural Society.         Qualification(s):       Student from Oxford County with the highest admission average.         Amount:       1 award of \$1,400         Honours Mathematics or Statistics Scholarship [E0131]
may also be considered.Amount:1 award of \$2,250 (\$750 in each of semesters 1, 3 and 5).	This scholarship is awarded to the student with the highest admission average. Application not required.
	Donor(s):       Faculty of the Department of Mathematics and Statistics, via the C.P.E.S Scholarship Fund         Qualification(s):       Student entering semester one of the Honours Mathematics or Statistic degree program.         Amount:       1 award of \$500

#### International Student Entrance Scholarships [E0408]

In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis Application not required.

#### University of Guelph Donor(s):

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. Application not required.

Donor(s): The J.D. MacLachlan Trust

Qualification(s): Student entering the University with the highest admission average. 1 award of \$1,500 Amount:

#### Lincoln Alexander Chancellor's Scholarship [E0493]

These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

#### Donor(s) Many Donors

Donor(s).	
Qualification(s):	Entering students of academic distinction who are Aboriginal, persons
	with a disability or members of a racial minority, and who have made
	significant contributions to their schools and communities and
	demonstrated the potential to become leaders in society. Financial need
	may be taken into consideration.
Amount:	2 awards of \$26,000

#### Mary Alice & Marion Munn Memorial Entrance Scholarship [E0418]

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 award is made in two installments, one in each of the Fall and Winter semesters of the first year of study. The second installment will be paid on successful completion of MUSC\*1500 and registration in MUSC\*1510. Apply when signing up for an audition for MUSC\*1500 Applied Music I, which takes place on the Special Schedule days in the Fall semester. Following this audition, a final round will be held within one month to select the winner.

#### Donor(s): Dr. John Munn

<b>Oualification</b>	(s): A student entering the B.A. program intending to major in Music 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. In the event that two or more
	applicants are closely matched, preference will be given to the applicant
	who has the highest entrance average.
Amount	1 award of \$2 500

#### McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.

Donor(s). Wilhelmina McArthur-Humphries Trust Fund Qualification(s): Students entering semester 1 with a minimum 75% admission average. Preference will be given to those students from Lanark and Wellington Counties. 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. 12 awards of \$1,000 Amount:

#### 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

#### Paul and Aileen Clarke Donor(s): Qualification(s): Students with a minimum 80% average with a record of leadership and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. Amount: 1 award of \$12,000

# President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

fc D	A number of President's Scholarships have been named in honour of the ollowing people and/or donors:
	Dick Brown
	Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in Jniversity Athletics from 1968 to 1988.
C	Cecil H. Franklin and Ingrid Franklin
H	n 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 hese twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President's Entrance Scholarship program.
C	Charles S. Humphrey
C tř tř	n memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of hese twelve prestigious entrance awards to recognize his financial contribution hrough his estate to the President's Entrance Scholarship program. <b>Jack R. Longstaffe</b>
	0
a	The University of Guelph has named one of these twelve prestigious entrance wards in memory of Jack R. Longstaffe to recognize his financial contribution hrough his estate to the President's Entrance Scholarship program.
В	Burton C. Matthews
a	The University of Guelph has named one of these twelve prestigious entrance wards in honour of Burton C. Matthews to recognize his insight and leadership n establishing the President's Entrance Scholarship program.
К	Kathleen and Frederick Metcalf
di M ot	Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a listinguished 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).
R	Rol-land Farms Limited
L fa U	Five 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 amilies. The Vander Pol families are generous supporters of a number of Jniversity projects and programs.
	Lillian Stewart Usher
a h	The University of Guelph has named one of these twelve prestigious entrance wards 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.
ci p	Entering students of academic distinction who have made significant contributions to their schools and communities and demonstrate the potential to become leaders in society.
Amount: 1	12 awards of \$26,000

Entrance Scholarships with Financial Need
Bill Klopp Memorial Award [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 May 1 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). Donor(s): Ross and Mary Lou Klopp
<i>Qualification(s):</i> Presented to a student entering semester 1 from the cities of Kitchener
Or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has financial need.         Amount:       1 award of \$500
Devine Family Scholarship [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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
<ul> <li>Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is May 1. 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.</li> <li>Donor(s): Mr. Peter J. Devine Qualification(s): Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. Preference will be given to students of African Canadian descent. Additionally, students</li> </ul>
must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of \$25,000 (payable over 4 years of study)
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 (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 May 1. ACCESS AWARD.
Donor(s):       The Blount Foundation, Inc.         Qualification(s):       Students from the Province of Ontario, with demonstrated financial need, 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. 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

#### Registrar's Entrance Scholarships [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 (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 May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.

#### Donor(s): University of Guelph

 Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit.

 Amount:
 500 awards of \$2,000

# 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 (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 May 1. ACCESS AWARD

#### Donor(s): Rol-Land Farms

 Qualification(s):
 Outstanding entering undergraduate degree students 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

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### Donor(s): University of Guelph

201101 (3).	
Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

#### **Entrance Awards with Financial Need**

#### 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

I	Donor(s):	W. Roy Hindle and family
I	Qualification(s):	An entering O.A.C. degree student who has demonstrated financial
I		need. Additionally, students must meet the government-mandated
I		terms for receipt of an OSOTF award (see General Statement on
I		Awards).
I	Amount:	1 award of \$6,000

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

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. Students who have applied to the University of Guelph will receive an application form.

#### 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 of \$1,000, Several awards of \$3,000

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

#### 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

#### **In-course Scholarships**

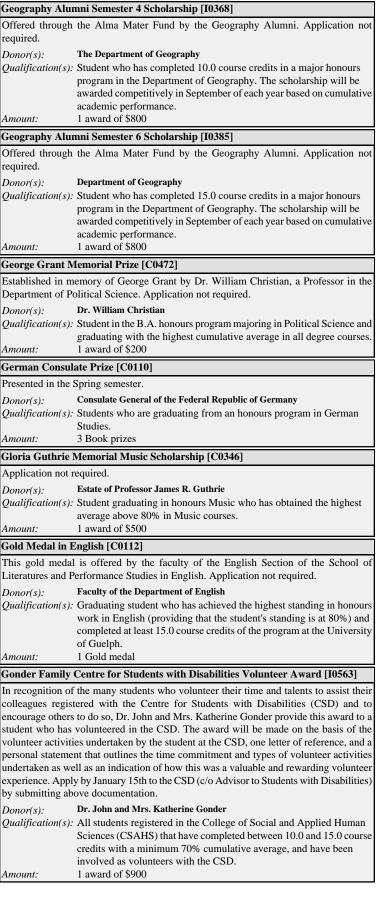
m-course Sci	10101 3111 p.3
A.M. Ross Cent	ennial Scholarship [I0249]
	essor A.M. Ross (funded in part on royalties derived from the O.A.C. ini publication of The College on the Hill). Application not required.
Donor(s):	Professor A.M. Ross
	Students in the 7th semester of the honours English program 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
	nolarship in Women's Studies [10596]
is provided to the education for wo Preference will be an understanding women advance	Dr. Agnes Varis, founder and president of Agar Chemicals. The award e student who demonstrates a passion and commitment for advancing ownen as evidenced by a major (or double major) in Women's Studies. e given to those students whose application letter or C.V. demonstrates g that women who benefit from advanced education must help other in society, through community, mentorship and teaching roles. Apply curriculum vitae to the Director of Women's Studies by April 1.
Donor(s): Qualification(s):	<b>Dr. Agnes Varis</b> 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 N	Memorial Award [I0176]
Established in m	emory of Aino Menning. Application not required.
Donor(s):	M. Tui Menning-Torrie
Qualification(s): Amount:	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. 1 award of \$500
Andrea Laatsch	Scholarship [I0168]
Application not a	required.
Donor(s): Qualification(s):	The friends of Andrea Laatsch 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 \$250
Austrian Embas	ssy Prize [I0022]
	Austrian Embassy. May be awarded in addition to Swiss or German . Application not required. Two book prizes.
Donor(s): Qualification(s):	<b>The Austrian Embassy</b> Advanced students of German who have shown excellence in the past two semasters, but need not be graduating. Application not required
Amount:	two semesters, but need not be graduating. Application not required. 2 Book prizes

Bill Taylor Memorial Scholarship [10280]	CFRU Volunteer Award [10215]
Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by April 1.	Apply to the CFRU Board of Governors by April 30.
	Donor(s): Station Manager, CFRU
<i>Donor(s):</i> AMF Canada Ltd. <i>Qualification(s):</i> Full-time student who has completed a minimum of 7.5 credits, but	<i>Qualification(s):</i> Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The
no more than 17.5 credits in the Winter term who has a cumulative	recipients will be selected on the basis of academic performance and
80% average or who is in the top 10% of his/her program. The recipient	volunteer work at CFRU.
must have demonstrated responsibility and leadership qualities through	Amount: 2 awards of \$250
participation in intramural or intercollegiate athletics.	Charles McGowan Memorial Prize [C0187]
Amount: 1 award of \$900	Established in memory of the late Lieutenant Charles McGowan. Application not required.
Blackburn Scholarship [I0404]	Donor(s): Charles McGowan Memorial Fund
In commemoration of the 125th Anniversary of the Ontario Agricultural College, Dr.	Qualification(s): Outstanding graduating student in an O.A.C. degree program.
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.	Amount: 1 award of \$300
Apply by letter, citing athletic contributions, to the O.A.C. Awards Committee by April	CIDS: Biophysical Environment and Development Award [C0461]
1.	Established by the College of Social and Applied Human Sciences. Presented in the
Donor(s): D.J. Blackburn	Winter semester. Application not required.
Qualification(s): O.A.C. degree or diploma student who has participated in	Donor(s): College of Social and Applied Human Sciences
intercollegiate athletics and maintained a minimum cumulative average	<i>Qualification(s):</i> Outstanding student, who has achieved academic excellence, a
of 70% while registered at Guelph. Athletic excellence and leadership will be used to determine the recipient.	minimum cumulative average of 80%, and service to the international community. The student will have completed at least 15.00 credits and
Amount: 1 award of \$500	will graduate in the Winter or expect to graduate in the Spring or Fall
C.A.S.U. (College of Arts Student Union) Award [I0161]	convocation ceremonies upon completion of their final year of the
	Biophysical Environment and Development area of emphasis of the
Apply by letter to Student Financial Services by April 1 stating area of participation, dates of participation and nature of contribution. This award may be held once only.	honours International Development degree.
Donor(s): C.A.S.U.	Amount: 1 award of \$200
<i>Qualification(s):</i> CASO: <i>Qualification(s):</i> Student within the College of Arts who has completed semesters 3 -	CIDS: Economics and Business Development Award [C0460]
8, and who participated in the social, political and cultural life of the	Established by the College of Social and Applied Human Sciences. Presented in the
University.	Winter semester. Application not required.
Amount: 1 award of \$200	Donor(s): College of Social and Applied Human Sciences
C.A.S.U. (College of Arts Student Union) Book Prizes [I0155]	<i>Qualification(s):</i> Outstanding student, who has achieved academic excellence, a minimum cumulative average of 80%, and service to the international
Students may win the prize once only in each department or school. Apply to the Chair	community. The student will have completed at least 15.00 credits and
of the Department or the Director of the School by April 30.	will graduate in the Winter or expect to graduate in the Spring or Fall
Donor(s): C.A.S.U.	convocation ceremonies upon completion of their final year of the
<i>Qualification(s):</i> Students enrolled in the College of Arts who have completed semesters	Economics and Business development area of emphasis of the honours
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	International Development degree. Amount: 1 award of \$200
volunteer participation in the social, political or cultural life of the	CIDS: Gender and Development Award [C0462]
University of Guelph.	· · · · · · · · · · · · · · · · · · ·
Amount: 8 Book prizes	Established by the College of Social and Applied Human Sciences. Presented in the Winter semester. Application not required.
Canadian Agri-Marketing Association (Ontario) Scholarship [I0541]	Donor(s):         College of Social and Applied Human Sciences
Provided by the Canadian Association of Agri-Marketing Association (Ontario). Apply	<i>Qualification(s):</i> Outstanding student, who has achieved academic excellence, a
to the O.A.C. awards Committee by April 1 with a summary of participation in the Ag	minimum cumulative average of 80%, and service to the international
Ec & Biz Society and in agri-marketing initiatives as well as a letter of recommendation from a faculty member.	community. The student will have completed at least 15.00 credits and
	will graduate in the Winter or expect to graduate in the Summer or
Donor(s):         Canadian Agri-Marketing Association (Ontario)           Qualification(s):         Student who has competed a minimum of 10.0 credits with a minimum	Fall convocation periods upon completion of his/her final year of the Gender and Development area of emphasis of the honours International
cumulative average of 70% who are members of O.A.C. and the Ag	Development degree.
Ec & Biz Society. Selection will be based on a combination of academic	Amount: 1 award of \$200
achievement and a demonstrated interest in agri-marketing.	CIDS: Latin American Studies Award [C0469]
Amount: 1 award of \$1,500	Established by the College of Social and Applied Human Sciences. Presented in the
Canadian Federation of University Women/Guelph Scholarship [I0294]	Winter semester. Application not required.
The Guelph Chapter of the Canadian Federation of University Women provides this	Donor(s): College of Social and Applied Human Sciences
annual scholarship. Application not required.	Qualification(s): Outstanding student, who has achieved academic excellence, a
Donor(s): The Guelph Chapter of the Canadian Federation of University Women	minimum cumulative average of 80%, and service to the international
<i>Qualification(s):</i> Female student registered in Year 3 in the Fall semester in either B.ENG., B.A. (College of Physical and Engineering Science) or	community. The student will have completed at least 15.00 credits and will graduate in the Winter or expect to graduate in the Spring or Fall
B.Sc.(College of Physical and Engineering Science) who has the highest	convocation ceremonies upon completion of their final year of the
cumulative average. Preference will be given to a student who has	Latin American Studies area of emphasis of the honours International
graduated from a secondary school in Wellington County.	Development degree.
Amount: 1 award of \$2,000	Amount: 1 award of \$200
Certified General Accountants Award for Excellence Prize [C0025]	
Awarded to the graduating student with the highest average in the three accounting	
courses listed. Application not required.	
Donor(s): Certified General Accountants Association of Ontario	
Qualification(s): Graduating student who has a minimum cumulative average of 77%	
in Financial Accounting BUS*2220; Management Accounting BUS*2230; and Intermediate Accounting BUS*3330.	
Amount: 1 award of \$150, plus 1 year tuition and course fee towards the CGA	
program. (approximate value of \$2,000)	

	Economy and Administrative Change Award [C0458]	College of Physical Engineering Science Academic Scholarship [I0073]
-	e College of Social and Applied Human Sciences. Presented in the	Application not required.
	Application not required.	Donor(s): College of Physical and Engineering Science
( )	College of Social and Applied Human Sciences	Qualification(s): Offered in the Winter semester to students who have completed at le
	Outstanding student, who has achieved academic excellence, a	15.0 course credits in a College of Physical and Engineering Scier
	minimum cumulative average of 80%, and service to the international	program and have excellent grades but have not received awards
	community. The student will have completed at least 15.0 credits and will graduate in the Winter or expect to graduate in the Spring or Fall	recently. <i>Amount:</i> 2 awards of \$250
	convocation ceremonies upon completion of their final year of the	
	Political Economy and Administrative Change area of emphasis of the	College of Physical Engineering Science Graduation Prize [C0075]
	honours International Development degree.	The winner will be selected in May from all students who have completed the progra
	1 award of \$200	in the previous twelve months. Application not required. One award of \$250 and
CIDS: Rural and	Agricultural Development Award [C0457]	commemorative plaque.         Donor(s):       College of Physical and Engineering Science
Established by th	e College of Social and Applied Human Sciences. Presented in the	Donor(s):         College of Physical and Engineering Science           Qualification(s):         Student graduating with the highest cumulative average from an
Winter semester.	Application not required.	honours B.Sc. program in a Physical and Engineering Science area
Donor(s):	College of Social and Applied Human Sciences	<i>Amount:</i> 1 award of \$250, 1 Commemorative plaque
Qualification(s):	Outstanding student, who has achieved academic excellence, a	College of Physical Engineering Science Scholarship [10076]
	minimum cumulative average of 80%, and service to the international	
	community. The student will have completed at least 15.00 credits and	Awarded in the Fall semester to a student who has completed semester 6 in the previo
	will graduate in the Winter or expect to graduate in the Spring or Fall	Fall, Winter or Spring semesters and who is enrolled in Year 4 of a College of Physi and Engineering Science program. Application not required.
	convocation ceremonies upon completion of their final year of the	
	Rural and Agricultural Development area of emphasis of the honours International Development degree.	<i>Donor(s):</i> <b>College of Physical and Engineering Science</b> <i>Qualification(s):</i> Recipients will be selected on the basis of a high average (minimu
	1 award of \$200	80% average required) in courses normally taken in Year 3.
		Amount: 1 award of \$250
	C. Leadership Awards [C0063]	Collins Barrow Award [10040]
	ar '51 O.A.C., on the occasion of its 45th anniversary. At the discretion ards Committee students may be selected before graduation. Application	Offered by Collins Barrow, a national firm of Chartered Accountants. Awarded in
not required.	aus commutee students may be selected before graduation. Application	Winter semester. Application not required.
	Year '51 O.A.C.	
( - ) -	Students graduating from the degree program in a major in an O.A.C.	<i>Donor(s):</i> Collins Barrow Chartered Accountants <i>Qualification(s):</i> Student with the highest grade in course BUS*3330, Intermediate
	department who have a 70% standing in the final year of study and	Accounting, in the Fall semester. In the event of a tie, the scholars
	who have demonstrated leadership in the College or University	will be given to the student with the highest cumulative average in
	extracurricular activities.	their program.
Amount:	5 awards of \$2,000	Amount: 1 award of \$500
Class of '67 O.A.	C. Centennial Scholarship [I0067]	Constas Prize [C0079]
Apply to Student	Financial Services by April 1.	This scholarship is offered in memory of Helen Constas, by the Department of Sociolo
Donor(s):	Class of O.A.C. '67	and Anthropology. It will be awarded at the Spring Convocation. Application not requir
	Student majoring in an O.A.C. department who through activity in all	Donor(s): The Department of Sociology and Anthropology, CSAHS
	branches of college life as well as scholastic achievement has made	<i>Qualification(s):</i> Student who is graduating with distinction (or has graduated at the
	an outstanding contribution to the University. 1 award of \$1,000	previous Winter or Fall Convocation) in a major in an honours progr
	1 award 01 \$1,000	
	nolarship [I0424]	has the highest cumulative average above 80% in Sociology and
Established by the	e Silver Anniversary celebrants to commemorate the 25th anniversary	
Established by the of the University	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main	has the highest cumulative average above 80% in Sociology and Anthropology courses.
Established by the of the University campus. The app	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]
Established by the of the University campus. The app semester and the	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required.	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr
Established by the of the University campus. The app semester and the <i>Donor(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b>	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [I0080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> Outstanding student in any degree program who has attained at least	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The award of Studies.
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b>	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The award is presented at the end of the Winter semester by the Belgian Consul General. Application
Established by the of the University campus. The app semester and the <i>Donor(s): Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr.         Director, a representative of East Residences, and the Head of French Studies. The aw is presented at the end of the Winter semester by the Belgian Consul General. Applicat not required.         Donor(s):       Consul General of Belgium in Toronto Qualification(s):
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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.	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw         is presented at the end of the Winter semester by the Belgian Consul General. Applicat         not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w         has made the greatest contribution to the program of the residence and the section of the secti
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [I0276]</b>	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr.         Director, a representative of East Residences, and the Head of French Studies. The aw is presented at the end of the Winter semester by the Belgian Consul General. Applicat not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, whas made the greatest contribution to the program of the residence at to the knowledge of Francophone cultures.
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b> Apply by April 1	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [10276]</b> to Student Financial Services.	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw         is presented at the end of the Winter semester by the Belgian Consul General. Applicat         not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w         has made the greatest contribution to the program of the residence at to the knowledge of Francophone cultures.         Amount:       1 Book Prize
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b> Apply by April 1 <i>Donor(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [10276]</b> to Student Financial Services. <b>Clayton and Dorothy Switzer</b>	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw         is presented at the end of the Winter semester by the Belgian Consul General. Applicat         not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w         has made the greatest contribution to the program of the residence to the knowledge of Francophone cultures.         Amount:       1 Book Prize         CSAHS Student Volunteer Scholarship [10482]
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b> Apply by April 1 <i>Donor(s):</i> <i>Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [10276]</b> to Student Financial Services.	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw         is presented at the end of the Winter semester by the Belgian Consul General. Applicat         not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w         has made the greatest contribution to the program of the residence to the knowledge of Francophone cultures.         Amount:       1 Book Prize         CSAHS Student Volunteer Scholarship [10482]         Inspired by Theresa Firestone, FACS '78, and funded by the Harshman Fellowsh
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b> Apply by April 1 <i>Donor(s):</i> <i>Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [10276]</b> to Student Financial Services. <b>Clayton and Dorothy Switzer</b> One to a student who has completed semester 2 of the Diploma in	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw         is presented at the end of the Winter semester by the Belgian Consul General. Applicat         not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w         has made the greatest contribution to the program of the residence at to the knowledge of Francophone cultures.         Amount:       1 Book Prize         CSAHS Student Volunteer Scholarship [10482]         Inspired by Theresa Firestone, FACS '78, and funded by the Harshman Fellowsh Society and Pfizer Canada Inc Students may apply on their own or be recommend
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b> Apply by April 1 <i>Donor(s):</i> <i>Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [10276]</b> to Student Financial Services. <b>Clayton and Dorothy Switzer</b> One to a student who has completed semester 2 of the Diploma in Agriculture program and one to a student who has completed semester	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw is presented at the end of the Winter semester by the Belgian Consul General. Applicat not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w has made the greatest contribution to the program of the residence a to the knowledge of Francophone cultures.         Amount:       1 Book Prize         CSAHS Student Volunteer Scholarship [10482]         Inspired by Theresa Firestone, FACS '78, and funded by the Harshman Fellowsh Society and Pfizer Canada Inc Students may apply on their own or be recommende by other students, faculty members or administrators from non-profit organization
Established by the of the University campus. The app semester and the <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>Clayton and Dor</b> Apply by April 1 <i>Donor(s):</i> <i>Qualification(s):</i>	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main ropriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> 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. 1 award of \$1,400 <b>othy Switzer Scholarships [I0276]</b> to Student Financial Services. <b>Clayton and Dorothy Switzer</b> One to a student who has completed semester 2 of the Diploma in Agriculture program and one to a student who has completed semester 4 of a degree program in O.A.C. Recipients will have a minimum of 70% standing and have demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.	has the highest cumulative average above 80% in Sociology and Anthropology courses.         Amount:       1 award of \$100         Consul General of Belgium Prize for French House [10080]         The recipient will be selected by a committee consisting of the French House Progr         Director, a representative of East Residences, and the Head of French Studies. The aw         is presented at the end of the Winter semester by the Belgian Consul General. Applicat         not required.         Donor(s):       Consul General of Belgium in Toronto         Qualification(s):       Student resident in French House with good academic standing, w         has made the greatest contribution to the program of the residence at to the knowledge of Francophone cultures.         Amount:       1 Book Prize         CSAHS Student Volunteer Scholarship [10482]         Inspired by Theresa Firestone, FACS '78, and funded by the Harshman Fellowsh Society and Pfizer Canada Inc Students may apply on their own or be recommended by other students, faculty members or administrators from non-profit organization Apply to the CSAHS Dean's Office with two letters of recommendation, at least one of the commendation, at least one of the commendation at least one commendatin the commendation at least one of the comm
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D.C. Masters Duirs in History [C0100]	IA. Scholarships and Other Awards, Bachelor of Arts
D.C. Masters Prize in History [C0180]	Dr. Ted Swart Scholarship [10561]
<ul> <li>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 not required.</li> <li>Donor(s): Department of History</li> <li>Qualification(s): Student completing the honours program in History (specialized honours, combined honours, or major honours) with the highest cumulative average (minimum of 80%) in History courses at the 3000 and 4000 levels in the preceding academic year.</li> </ul>	<ul> <li>Provided by the Department of Computing and Information Science, these scholarships are awarded in the Fall semester to students in a Computing and Information Science degree program that achieved the highest and second highest averages in Year 2 Computing and Information Science core courses. Application not required.</li> <li>Donor(s): Department of Computing and Information Science Qualification(s): Undergraduate students in a Computing and Information Science (CIS) degree program who have completed from 10.0 to 12.5 course credits and have taken the CIS core courses required for Year 2.</li> </ul>
Amount: 1 award of \$500	Amount: 1 award of \$500, 1 award of \$300
David F. Boyes Apiculture Scholarship [I0031]	E.A. (Nora) Cebotarev Prize [C0464]
Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application not required. <i>Donor(s):</i> <b>The Apiculture Club</b> <i>Qualification(s):</i> 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. <i>Amount:</i> 1 award of \$150	<ul> <li>Established by the Department of Sociology and Anthropology to honour Professor</li> <li>Emerita E.A. (Nora) Cebotarev's outstanding contribution to graduate programs in</li> <li>Sociology and Anthropology and to the life of the department and the larger community.</li> <li>Presented in the Fall semester. Application not required.</li> <li>Donor(s): Department of Sociology and Anthropology</li> <li>Qualification(s): Graduating student with an honours specialization from the Department</li> <li>of Sociology and Anthropology who has excelled academically by</li> <li>achieving a minimum cumulative average of 80% and has served the</li> </ul>
David Murray Medal in Arts [C0071]	university and larger community.
The recipient is selected by the Awards Committee of the College of Arts. Application	Amount: 1 Book prize
Ine recipient is selected by the Awards Committee of the College of Arts. Application not required. One award of a medal and \$200.         Donor(s):       College of Arts         Qualification(s):       College of Arts nominee for the Winegard Medal.         Amount:       1 award of \$200, 1 Medal	<b>E.B. MacNaughton Convocation Prize [C0171]</b> 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 not required. One award of a plaque-mounted medal and \$250.
Deans' Scholarships [I0323]	
Offered by the Board of Governors. Recipients will be selected by each of the College Awards Committees. Winners will be notified in the Fall semester. Application not required.	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
Donor(s):         Board of Governors           Qualification(s):         Students registered in any degree program. The primary academic	Edmund C. Bovey Scholarship in Philosophy [10113]
criteria is placement on the Deans' Honours List for two consecutive semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M. program, in the previous Fall/Winter/Summer sequence.         Amount:       150 awards of \$1,000         Dr. Charles Capstick Graduation Prize [C0558]         Provided by the Department of Computing and Information Science, these scholarships are awarded in May to students who have completed an undergraduate degree in a	Donated by Sandra and Joseph Rotman. The award will be made in 2 installments of \$500 payable after registration in semesters 7 and 8. Application not required.         Donor(s):       The Joseph Louis Rotman Charitable Foundation         Qualification(s):       Awarded to the student with the highest cumulative average in Philosophy courses who has completed 6 semesters in the major honours, combined honours, or specialized honours program in Philosophy.
Computing and Information Science program and have achieved the highest and second	Amount: 1 award of \$1,500
bighest cumulative averages at graduation. Application not required.         Donor(s):       Department of Computing and Information Science         Qualification(s):       Students who have completed an undergraduate degree in Computing and Information Science (CIS) in the previous twelve months.	Edward Johnson Music Foundation Scholarship [I0608] This scholarship supports the mission of the Edward Johnson Music Foundation to ensure that young people have access to the best musical education possible and to recognize the vital role of music in the fabric of our lives and communities. Selection will be based on musical and scholastic achievements and contributions to the University of Guelph
Amount: 1 award of \$500, 1 award of \$300	communities through performance and music education. Apply to the Department of
Dr. James Linders Scholarship [I0559]         Provided by the Department of Computing and Information Science, these scholarships are awarded in the Fall semester to students in a Computing and Information Science degree program that achieved the highest and second highest averages in Year 3 Computing and Information Science core courses. Application not required.         Donor(s):       Department of Computing and Information Science (CIS) dualification(s):         Undergraduate students in a Computing and Information Science (CIS)	Music by April 1 with a letter or C.V. listing musical contributions.         Donor(s):       Edward Johnson Music Foundation         Qualification(s):       Students in an Honours degree program with a declared major or minor in Music, who have completed a minimum of 10.0 credits towards their degree and who have a minimum cumulative average of 80% in MUSC courses.         Amount:       1 award of \$500
degree program who have completed from 15.0 to 17.5 course credits and have taken the CIS core courses required for Year 3.	Ellen Nilsen Memorial Scholarship [I0047]
Amount: 1 award of \$500, 1 award of \$300	Apply to the Director for International Development Studies with an unofficial summary,
Dr. Mary McLeish Scholarship [10560]	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
Provided by the Department of Computing and Information Science, these scholarships are awarded in the Fall semester to students in a Computing and Information Science degree program that achieved the highest and second highest averages in Year 1 Computing and Information Science core courses. Application not required. <i>Donor(s):</i> <b>Department of Computing and Information Science</b> <i>Qualification(s):</i> Undergraduate students in a Computing and Information Science (CIS) degree program who have completed from 5.0 to 7.5 course credits	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         Essay Prize in Music [10357]
and have taken the CIS core courses required for Year 1.	Essays should be submitted to the Director of the School of Fine Art and Music.
Amount: 1 award of \$500, 1 award of \$300	Donor(s):       The Department of Music         Qualification(s):       Student with at least Honours standing in the Honours Music Major or Minor program for the best research paper submitted in a 3000 or 4000 level music course (excluding papers written for MUSC*4401/2).         Amount:       1 award of \$100

Essays in Theat	re/Etudes Theatrales Prize [I0115]
Awarded in the V	Winter semester. Application not required.
Donor(s):	The Department of Drama
Qualification(s):	Student in a major or honours program in Drama with the highest
	cumulative average at the end of the 5th semester.
Amount:	1 Book prize
	ography Alumni Scholarship [I0500]
	nour of the retirement of Dr. Fred Dahms, one of the founding members
friends. Applicat	(1968-74) of the Department of Geography, by alumni, colleagues and
Donor(s):	Alumni, colleagues and friends of Dr. Fred Dahms, Department of
Donor(s).	Geography
Qualification(s):	Full-time or part-time undergraduate student who has completed 15.00
Amount:	credits in the major honours program in the Department of Geography. 1 award of \$500
ţ.	Classics [10098]
	varded to students selected by members of the Classics Section of the ages and Literatures and by the Director of the School. Application not
required.	ages and Enteratures and by the Director of the School. Application not
Donor(s):	Dr. P. O'Cleirigh and Dr. A. Sherwood
	Students registered in any Classics program are eligible and the awards
	are based on aggregate performance in one or more courses totaling 1
Amount:	credit at the 2000 level or above from Classical Studies, Greek or Latin. 2 awards of \$100
,	han Political Science Scholarship [I0513]
	ernard Cummins, a '92 and '93 graduate of the College of Social Science, ini and the friends and family of Frederick Vaughan, in honour of
	ick Vaughan. Apply by letter to the Chair of the Department of Political
	1 1st. The letter should include a brief description of the student's
	sts, and/or involvement with Canadian politics, Constitution, and/or
•	vell as a comprehensive listing of his/her extracurricular activities.
Donor(s):	Mr. Bernard Cummins, family and friends Undergraduate student majoring in Political Science or Criminal Justice
Qualification(s).	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 Fac	ulty in French Studies (School of Languages and Literatures).
Donor(s):	French Consul
~ ~ ~ ~ ~	Offered to a student for work in oral French.
Amount:	1 Book prize
	c Book Prize [I0218]
•	e Friends of Music of the University of Guelph. Application not required.
Donor(s):	Friends of Music, Chair, Department of Music
Qualification(s):	Student who, in a given year, has completed at least 15.00 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 Musi	c In-Course Scholarship [I0195]
Established by the	e Friends of Music of the University of Guelph. Application 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 gradits toward
	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 Musi	c In-Course Scholarship in Applied Music [10497]
	e Friends of Music of the University of Guelph. Application not required.
Donor(s):	Friends of Music, Chair, Department of Music
· · ·	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
Amount:	MUSC*3510 (Applied Music) with the highest grade above 80%. 1 award of \$600



	Scholarship [10580]	-	te Prize in Italian Studies [I0143]
	cognition of the diversity of student abilities and the varying challenges e study. The recipient will be chosen on the basis of academic	Application not	
Ŭ	h a preference to students enrolled in any CSAHS major of the B.Comm.	Donor(s):	Consulate General of the Republic of Italy
	ation not required.	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
Donor(s):	Dr. John and Mrs. Katherine Gonder		course.
Qualification(s):	All students in the CSAHS who have completed between 10.0 and	Amount:	1 Book prize
	15.0 course credits with a minimum 70% cumulative average, and who have been identified with a learning disability through the University	J. Percy Smith	Drama Prize [C0261]
	of Guelph's Centre for Students with Disabilities.	Application not	required.
Amount:	1 award of \$900	Donor(s):	Dr. J. Percy Smith
Gordon Ashton	Statistics Scholarship [10543]	Qualification(s).	: Graduating honours student in Drama with high academic standing in
	is named in honour of Professor Gordon Ashton, a founding member		Drama courses, who has also made a worthy contribution to drama
	nt of Mathematics and Statistics. A student may only be considered for	Amount:	activities within the School of English and Theatre Studies. 1 award of \$200
this award once.	Application not required.		
Donor(s):	Department of Mathematics and Statistics and (retired) Professor Dixon		ics Scholarship [I0204]
Qualification (a)	More, C.P.E.S		emory of Dr. John M. Bell, a distinguished teacher of classics and Chair nt of Languages and Literatures. Application not required.
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	Donor(s):	J.M. Bell Memorial Fund
	a cumulative average of at least 80% and the highest average over 80%		: Student continuing in an honours program in Classics with the highest
	on a minimum of 4.0 credits in year 2 (i.e., while earning 5.0 to 9.75	guangreanen(b)	average (80% or above) in 4.00 credits from Classical Studies, Greek,
	credits.		or Latin courses beyond the 1000 level. The award may only be held
Amount:	1 award of \$750		once.
	ral's Medal [C0044]	Amount:	1 award of \$500
	ne Office of the Governor General of Canada. Application not required.		tonours Scholarship in Social Science [10259]
Donor(s):	The Chancellery		ot tenable with the College of Social and Applied Human Sciences or nate Awards. Awarded to the student with the highest academic standing.
Qualification(s):	Restricted to those undergraduate students in any degree program who	B.A. program Se Application not	6 6
	are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.		Faculty, staff, alumni and students, of the former College of Social Science
Amount:	1 Silver medal	Donor(s): Qualification(s)	: Students who have completed between 12.75 and 15.0 credits and who
	e Arts Association, Gordon Couling Scholarship [I0117]	guangreanen(o)	are registered in an Honours program in the Departments of Geography,
_	this scholarship is to be made by submitting a portfolio of studio work		Political Science, Psychology, Sociology and Anthropology or a social
	ce of the School of Fine Art and Music no later than the final day of		science interdisciplinary program.
classes of the Wi		Amount:	1 award of \$300
Donor(s):	Guelph Creative Arts Association	J.W. Skinner M	Iedal in Social Science [C0260]
Qualification(s):	Studio Arts major who has completed, or is completing, 12.50 credits		onour of the many contributions of Dr. J.W. Skinner, a former Dean of
	at the time of application, who is proceeding towards an honours degree	-	ocial Sciences. Application not required.
	in Studio Arts, and who has a cumulative average of at least 70% in all previous course attempts in Art History and Studio Arts.	Donor(s):	Faculty, staff, alumni and students, of the former College of Social Science
Amount:	1 award of \$200	Qualification(s). Amount:	: Presented to the C.S.A.H.S. Winegard Medal nominee. 1 Medal
Highdale Farms	s Scholarship [10348]		Aedal in Economic History [C0173]
0	t Financial Services, by April 1.		of Economics with the assistance of Dr. Warren Jestin, a B.A. and M.A.
Donor(s):	Arthur Spoerri		ember of the University's Board of Governors from 1997 to 2003, offers
	Two awards are available for students in semesters 3 through 6 with	~	nour of Professor Jack Madden, founding member of the former College
~ • • •	at least a 75% cumulative average and whose primary area of study is		ce and the Department of Economics. Application not required. One
	related to the natural sciences. The first award is based on academic	award of a meda	
	proficiency. The second award is based on academic proficiency and	Donor(s):	Department of Economics with the assistance of Dr. Warren Jestin
	demonstrated leadership with preference given to students from Ottawa-Carleton, Dundas-Glengarry-Stormont, Grenville, Lanark,	Qualification(s).	: Student in honours Economics who has completed at least one Economic History course at any time throughout their program with
	Prescott-Russell and Renfrew counties.		the highest grade in the course and are graduating in the Winter
Amount:	2 awards of \$2,500		semester, or have graduated in the previous Fall or Summer.
International U	ndergraduate Scholarship [10577]	Amount:	1 award of \$200, 1 Medal
Established throu	ugh a student referendum approved by the undergraduate student body,	Jakob Amstutz	Prize [C0407]
to recognize inte	ernational students' academic merit along with involvement/leadership	Established in m	nemory of Jakob Amstutz, a valued faculty member of the Philosophy
	their enrollment at the University of Guelph. Financial need will be	department for r	nore than twenty years. Application not required.
	in the event of a tie. Apply to Student Financial Services, by April 1, cating involvement/extracurricular activity since entry to the University,	Donor(s):	Guelph Philosophical Society
	d/or professional references, and a completed Financial Need Assessment	Qualification(s).	Student with the highest cumulative average who has graduated during
	or International Students form. This award can only be held once by the		the previous fall or winter or will be graduating in the summer of the current academic year from the Honours Philosophy program.
student.		Amount:	1 award of \$200
Donor(s):	International Student Organization (ISO)		n Award for Academic and Extracurricular Excellence [C0344]
Qualification(s):	Full-time International students (defined as those paying full	-	
	international student tuition without exemption), who have completed		Department of Psychology to recognize its nominee for the Winegard to the Department of Psychology Undergraduate Academic Counsellor
	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	** *	, including a list of extracurricular activities.
	application.	Donor(s):	The Department of Psychology
Amount:	1 award of \$1,000		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

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Jean Carter Me	morial Gerontology Scholarship [I0488]	John Kenneth (	Galbraith Scholarship in Economics [10108]
	e family and friends of Jean Carter, a Mac' 38 graduate who was actively		g to the Chair, Department of Economics by March 1.
	ife of the College and the University. Apply by letter to the CSAHS		The Board of Governors, University of Guelph
	wards Committee, Dean's Office by April 1st, including a statement	Donor(s):	Student who has completed, or is about to complete, the 5th semester
that outlines the	student's experience working with the elderly in a volunteer capacity	Qualification(3)	level in the B.A. program, and who has declared intent to proceed in
	urricular involvement the student may have and two letters of reference,		an honours program in Economics. The scholarship will be awarded
	hould be from someone who can speak to the student's volunteer		on the basis of high academic standing, particularly in courses in
-	the elderly, while the other should comment on the extracurricular		Economics, Food Agriculture and Resource Economics, Mathematics
activities of the s			and Statistics and will be presented after the recipient has registered
Donor(s):	Mr. Robert N. Carter and Family		for the 7th semester level of an honours program in Economics.
Qualification(s):	Undergraduate student in the CSAHS who has completed at least 10.0	Amount:	1 award of \$600
	credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will be	John Vanderka	mp Memorial Scholarship in Economics [10525]
	given to students in the BASc program majoring in Gerontology.	Provided by the	family, friends and colleagues of the late Dr. John Vanderkamp, former
Amount:	1 award of \$1,000	Dean of the Co	ollege of Social Science (1981-91) and Chair of the Department of
	Boehnert Memorial Prize in Women's Studies [C0502]	Economics (197	1-1980). Application not required.
		Donor(s):	The family, friends and colleagues of John Vanderkamp
	mily, friends and colleagues of the late Dr. Joanna Boehnert, a professor nt of Psychology (1968-2001) who established the Guelph Women's	Qualification(s).	: Student registered in an Economics specialization in the B.A. program
	in 1980 and served as the program's coordinator for 14 years. Application		who has competed between 12.5 and 15.0 credits, and has declared
not required.	an 1700 and served as the program's coordinator for 14 years. Application		his/her intention to proceed in the honours program. The award winner
Donor(s):	Family, friends and colleagues of the late Dr. Joanna Boehnert		will be selected on the basis of high academic achievement, particularly in the applied Economics courses, and the award will be presented
	Graduating honours student majoring in Women's Studies. The award		after the recipient has registered in a subsequent semester of an honours
zaanjieanom(s).	will be presented to the student who has attained the highest cumulative		specialization in the B.A. in Economics.
	specialization average.	Amount:	1 award of \$500
Amount:	1 award of \$1,000	Kenneth W. Ha	mmond Award [10045]
John A. Archiba	ald Memorial Scholarship [I0014]	The evaluation	of the student will be based on the final essay in the "Environmental
	ory of John A. Archibald, former Director of the Horticultural Research	-	d Human Choice: 5000 Days" course. The selection committee will be
Institute of Ontar	rio. Apply to Student Financial Services by April 1.		persons: the donor, the Director of the Arboretum, the Dean of Physical
Donor(s):	The friends and associates of the late John A. Archibald	• •	Science and the Dean of Biological Science. Application not required.
Qualification(s):	Outstanding student with an interest in courses in the Department of	Donor(s):	Kenneth W. Hammond
	Land Resource Science who has completed semester 6. The recipient	Qualification(s).	Student who has best demonstrated an understanding of the world's
	will be chosen on the basis both of high academic standing and	A	resource situation and its proper use by humankind.
Amount:	participation in extracurricular activities. 1 award of \$1,200	Amount:	1 award of \$1,000
		Kip Hunter Pri	
	ndation of Canada Scholarship [I0516] gh the generosity of The John Deere Foundation of Canada to recognize		ay, written by an undergraduate in a philosophy course. The essay may ired assignment for a course (in which case either the student or the
	ence. Application not required.		ubmit it) or it may be specially prepared for the competition. Submission
			the Chair, Department of Philosophy, by the end of the 12th week of the
Donor(s):	The John Deere Foundation of Canada Student registered in the B.Sc.Agr (Food Agriculture and Resource	Winter semester	
Qualification(s).	Economics),B.Sc.(Agr.) Agronomy, B.A. (Food Agriculture and Resource	Donor(s):	Faculty, students and staff of the Philosophy Department
	Resource Economics), or B.Comm (Agricultural Business) program		: Any undergraduate who has registered for a philosophy course during
	who has completed a minimum of 15.0 credits. Selection will be based	2	the academic year in which the prize is awarded.
	on the student with the highest cumulative average. A student may be	Amount:	1 Book prize
	receive this award once only.	Lambda Found	ation Scholarship in LBGT Studies [10591]
Amount:	1 award of \$2,000	-	rovided to encourage research on the subject of lesbian, bisexual, gay
John Eccles Sch	olarship [I0093]		ed (LBGT) peoples. The scholarship is based upon areas of research
Nominations, ac	companied by appropriate resumes, are to be submitted to Student		history, contributions, and issues by or about LBGT peoples. Preference
Financial Service	es by April 1.		an applicant who is involved in the LBGT community as demonstrated
Donor(s):	Student Housing Services		olunteer activities, active civil society memberships, or as attested by a
Qualification(s):	Full-time student registered in semester 2, 3, 4, 5 or 6 and living in		nendation from a community group, or evidenced by related previous
	residence in the Winter semester who has a cumulative 80% average		ts. This scholarship may be awarded to a given student only once. Projects
	or who is in the top 10% of his/her program. The recipient must have		completed or research proposals accepted within the past calendar year. In of Arts by December 15th including the research proposal or completed
	demonstrated responsibility and leadership qualities through		um vitae, and any supporting letters referencing involvement in the
	participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.		ity and/or faculty support.
Amount:	1 award of \$600	Donor(s):	Lambda Foundation and other donors
	Honours Thesis Prize [C0189]		: Students enrolled in a program with a thesis, a research essay,
	bers of the Department of Political Science, colleagues and friends of		independent research project or course work programs pertaining to
n meren ny mem			lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly
Professor Melby		4	defined by the applicant.
Professor Melby Donor(s):	Members of the Department of Political Science, colleagues and friends	Amount:	1 award of \$1,000
Professor Melby Donor(s):		Amount:	

Amount: 1 award of \$500

÷	ipcak Chemistry Scholarship [10528]		raduation Prize [C0182]
	was established by Professor Gordon L. Lange, Professor Joe M.		nmer Convocation. Application not required. One award of \$250 and
	ds and colleagues. Professors Gordon L. Lange and Joe M. Prokipcak nbers of the chemistry Faculty who retired in 2001. Their excellence in	commemorative	
	ognized within the university and nationwide, winning them a total of	Donor(s):	Faculty members, who will be anonymous, through the College of Physica Science and Engineering Expendable Scholarship Fund
	awards. Application not required.	Qualification(s).	: The graduating student who has majored in mathematics and who in
Donor(s):	Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues		the past year has graduated from an honours degree program with the highest cumulative average over 80%.
Qualification(s).	Student in C.P.E.S. with the highest average grade in CHEM*1040,1050 and 2700 who has completed a minimum of 10.0	Amount:	1 award of \$250
	credits up to a maximum of 14.75 credits.		rships in English [I0188]
Amount:	1 award of \$1,000		ips are offered in memory of Prof. Ernest Cyrus McLean, a member of 21 to 1060 and Chair of the Department of English from 1054 to 1060
Le Prix Leopolo	l Senghor [10254]	Application not	21 to 1960 and Chair of the Department of English from 1954 to 1960 required.
	Honorary Consul for Senegal is awarded in even-numbered years.	Donor(s):	Anonymous
Application not		Qualification(s).	: Students in a B.A. program in English who have completed semeste
Donor(s): Ovalification(s)	Department of Languages		4 in the previous Spring, Fall or Winter semesters with a high academi
Qualification(s).	Student with good academic standing who has achieved excellence in the study of francophone African literatures, and in particular the		standing. A cumulative 80% average in English courses is considere the minimum requirement.
	literature of Senegal. The recipient will be selected on the basis of	Amount:	2 awards of \$1,000
	performance in the course FREN*3290 with recommendation from		ompkins Scholarship [I0341]
4	the Director of the School of Languages and Literatures.		amily in memory of Michael Tompkins, Governor General's Medallis
Amount:	1 Book prize		e will be given to students who do not hold other Senate awards. Th
	Scholarship [10156]	scholarship may	be held once only. It is payable after registration in the student
	nour of two founding fathers of calculus. Awarded in the Fall semester.	-	ester. Essays must be submitted by January 15th to the honours Englis
	the T.D. Newton Memorial Scholarship. Application not required.	advisor, together advisor.	r with an application form which is available from the honours Englis
Donor(s): Qualification(s)	<b>The Department of Mathematics and Statistics</b> A second year student majoring in mathematics or statistics (i.e. one	Donor(s):	Donnamarie Tompkins-Grace
Quangication(S).	who has completed a minimum of 5 credits up to a maximum of 9.75		: Student continuing in the honours English degree program at the
	credits) who has a cumulative average of at least 80% and the highest	Emilia (3)	University of Guelph who submits the best essay written in a 3000 c
	grades over 80% in MATH*1200 and MATH*1210. A student may		a 4000 level English Literature course.
A	be considered for this award only once.	Amount:	1 award of \$1,000
Amount:	1 award of \$500		mer Scholarship [I0253]
	y Exchange Student Scholarship [10446]		y submission of a portfolio of studio work to the Office of the Directo
	students, faculty, staff and friends to honour Prof. Leonard Conolly, ama, Chair of the Department of Drama, 1981-88, and Associate		Fine Art and Music by November 1.
	Academic, 1988-1992. Apply to the Centre for International Programs	Donor(s):	The Michael Scotchmer Scholarship Committee
	siting during the subsequent Fall or Winter semesters. Selection, by the	Qualification(s).	: Fine Art student who is in the intermediate stage of his/her program i.e. semesters 3 to 6. Applicants must have completed at least 2.50
Centre for Inter	national Programs, will be based on assessment of (a) a one-page		credits in studio at Guelph, with a 70% average in those courses by
	ribing the significance of the student visiting Guelph to the program of		the end of the prior Winter semester.
	ner exchange university (b) two faculty references of one-page each, thigh performance in the course work completed, as documented by a	Amount:	1 award of \$1,000
	gram grades to date, submitted by the home university.	Mordechai Roz	anski History Scholarship [10545]
Donor(s):	Students, staff, faculty and friends of Dr. Leonard Connolly		the Jean Rich Foundation in recognition of Dr. Rozanski's tenure a
	Full-time visiting exchange undergraduate or graduate student,	president of the	University of Guelph from 1993 to 2003. Application not required.
	registered at Guelph for at least one semester, from any country in the	Donor(s):	Jean Rich Foundation
	South (a list of eligible countries and exchange partner universities is qualiable in the Centre for International Programs)	Qualification(s).	Student in Year 3 (who has completed a minimum of 10.0 credits u
Amount:	available in the Centre for International Programs). 1 award of \$1,000		to a maximum of 14.75 credits) of the Honours History program wit the highest cumulative average.
		Amount:	1 award of \$6,000
	zie Prizes for Outstanding Achievement in History [I0470] we been established in memory of Marion McKenzie (1905-1994), a		non Scholarship [10169]
	a love of learning and a continuing curiosity about the world both past		nolarships given to students completing semesters 5, 6 or 7 during th
	se are awarded to the top student in each of the required core courses		will be considered by the College Awards Committee. Application no
in the History pro	gram (HIST*1010, HIST*2450, HIST*2602). Application not required.	required.	
Donor(s):	TBA	Donor(s):	The Murdo MacKinnon Scholarship Fund
Qualification(s).	The recipient for HIST*1010 must have completed no more than 5.0	Qualification(s).	: Student(s) registered in an honours major program in the College of
	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		Arts in Music, Drama, Art History, Studio Arts, English, History, Philosophy, Language and Literatures or Erangh Studies with the
	in the history program; and the recipient for HIST*2602, no more than 10.0 credits.		Philosophy, Languages and Literatures or French Studies with the highest cumulative average in his/her honour subject(s). Preference
Amount:	3 awards of \$250		will be given to students who have done all of their work at the
	[emorial Award [I0192]		University of Guelph.
	family and friends of Marlene Pike. Application not required.	Amount:	1 award of \$500
Donor(s):	The family and friends of the late Marlene Pike	Nancy Stoten H	Ionours Prize in French [I0411]
	Student majoring in Studio Art who has completed 12.50 credits,		parents, family and friends of Nancy Stoten, a former student in Frenc
,	including SART*3300 Sculpture II and who is judged to have made	**	tion not required.
	an outstanding contribution in sculpture classes as manifested in the	Donor(s):	The family and friends of Nancy Stoten
	quality of work produced as well as in the effort expended and promise	Qualification(s).	: Students enrolled in the French Studies who has achieved the highe
Amount	shown. 1 award of \$400		average in the five best courses in French at the 3000 and 4000 leve Recipients of the Nancy Stoten Memorial Scholarship are not eligibl
Amount:	1 awalu 01 \$400		for this prize. Students in semesters 7 or 8 or graduating students wi
			be considered for the prize in May.

	Iemorial Scholarship [I0106]
Provided by the	parents, family and friends of Nancy Stoten, a former student in French
• •	tion not required.
Donor(s):	Mr. Michael and Mrs. Jean Stoten
	Students enrolled in the French Studies with fewer than 15.50 credits
glianificanion(b)	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 N	Memorial Scholarship in Psychology [I0154]
11.0	by July 1 to the Chair of the Psychology Department's Undergraduate
	iculum Committee (UACC).
Donor(s):	The Bowen family, friends and faculty colleagues
Qualification(s):	Presented to a student with an excellent academic record in the first 5 semesters of a Psychology program. Preference will be given to
	"mature" students.
Amount:	1 award of \$600
O.A.C. '55 Scho	larships [I0064]
	class of O.A.C. '55. Apply to Student Financial Services by April 1.
Donor(s):	0.A.C. '55
( )	Students who are registered in any O.A.C. degree program or students
-	enrolled in the B.ENG. program and have completed semester 4.
	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. Recipients must
	have a 70% minimum cumulative average.
Amount:	1 award of \$2,000
O.A.C. Centenn	ial Graduate Fellowships [C0209]
Financial Service Donor(s):	es by April 1. 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 are eligible for these fellowships. The fellowship will be based on academic achievement in semesters 7 and
	of baccalaureate graduation are eligible for these fellowships. The
	of baccalaureate graduation are eligible for these fellowships. 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.
	of baccalaureate graduation are eligible for these fellowships. 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. 2 awards of \$2,200
	of baccalaureate graduation are eligible for these fellowships. 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.
	of baccalaureate graduation are eligible for these fellowships. 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. 2 awards of \$2,200 s' Federation Medal [C0217] required.
<b>O.A.C. Students</b> Application not n <i>Donor(s):</i>	of baccalaureate graduation are eligible for these fellowships. 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. 2 awards of \$2,200 <b>s' Federation Medal [C0217]</b> required. <b>O.A.C.</b>
O.A.C. Students Application not n Donor(s):	of baccalaureate graduation are eligible for these fellowships. 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. 2 awards of \$2,200 <b>5' Federation Medal [C0217]</b> required. <b>O.A.C.</b> • Graduating student in an undergraduate degree program in a major in
O.A.C. Students Application not n Donor(s):	of baccalaureate graduation are eligible for these fellowships. 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. 2 awards of \$2,200 <b>5' Federation Medal [C0217]</b> required. <b>O.A.C.</b> • Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student
<b>O.A.C. Students</b> Application not a <i>Donor(s):</i> <i>Qualification(s):</i>	of baccalaureate graduation are eligible for these fellowships. 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. 2 awards of \$2,200 <b>s' Federation Medal [C0217]</b> required. <b>O.A.C.</b>
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I I	ize [I0239]
Application not r	required.
Donor(s):	Printmaking students and faculty of the Department of Fine Art
Qualification(s):	Student judged to have made the outstanding academic contribution
	to the practice of printmaking during that semester. All students
	currently enrolled in a printmaking course at any level are eligible,
	provided that they are considered by the Printmaking Selection
	Committee of the School of Fine Art and Music to have fulfilled all
A	workshop responsibilities. 1 award of \$100
Amount:	
	anford Reid Trust Prize [10597]
	pnour the first chair of the History Department, Stanford Reid, and his
	Reid to acknowledge the best paper written about the history of
•	and/or the Reformed tradition. Apply, by April 1, with a copy of the ring letter including contact information to the Department of History
Awards Chair.	ring letter including contact information to the Department of History
Donor(s):	Priscilla and Stanford Reid Trust Fund
	Any student submitting an essay on the history of Presbyterianism
Quanfication(3).	and/or Reformed tradition.
Amount:	1 award of \$500
Psychology Cor	e and Methodology Scholarship [10345]
-	Department of Psychology. Application 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 who has
	course requirements.
Amount:	1 award of \$200
Psychology Hon	ours Thesis Prize [10343]
	Department of Psychology. Application not required.
Donor(s):	The Department of Psychology
• •	Student enrolled in the B.A. honours program or the honours
Quanfication(3).	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. The winning thesis is selected from nominations by thesis
	supervisors.
Amount:	1 award of \$200
	or Honours Scholarship [10342]
Psychology Seni	or Honours Scholarship [I0342] Department of Psychology. Application not required.
Psychology Seni	
<b>Psychology Seni</b> Provided by the D Donor(s):	Department of Psychology. Application not required. Department of Psychology Student enrolled in the BA Honours program or the honours
<b>Psychology Seni</b> Provided by the D Donor(s):	Department of Psychology. Application not required. Department of Psychology Student enrolled in the BA Honours program or the honours specialization in the BSc program majoring in Psychology, having the
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Psychology Seni Provided by the Donor(s): Qualification(s): Amount:	Department of Psychology. Application not required. Department of Psychology 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*3370. Award may be held once only. 1 award of \$200
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Psychology Seni Provided by the I Donor(s): Qualification(s): Amount: R.A. Fisher Stat Established to h semester. Not ter Donor(s): Qualification(s): Amount:	Department of Psychology. Application not required. Department of Psychology 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*3370. Award may be held once only. 1 award of \$200 <b>istics Scholarship [I0102]</b> onour one of the founding fathers of statistics. Awarded in the Fall hable with the Year 3 Statistics Scholarship. Application not required. <b>Faculty, students and other affiliates of the Department of Mathematics and Statistics</b> 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. 1 award of \$500
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Psychology Seni Provided by the I Donor(s): Qualification(s): Amount: R.A. Fisher Stat Established to hisemester. Not ter Donor(s): Qualification(s): Amount: R.C. Moffatt Ma This scholarship be considered fo with any other D required. Donor(s):	Department of Psychology. Application not required. Department of Psychology 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*3370. Award may be held once only. 1 award of \$200 <b>istics Scholarship [I0102]</b> onour one of the founding fathers of statistics. Awarded in the Fall hable with the Year 3 Statistics Scholarship. Application not required. <b>Faculty, students and other affiliates of the Department of Mathematics and Statistics</b> 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. 1 award of \$500 <b>emorial Scholarship in Mathematics or Statistics [I0536]</b> was established by the Estate of Professor R.C. Moffatt. A student may r this award in both third and fourth years. This award is not tenable bepartment of Mathematics or Statistics scholarships . Application not <b>Estate of Professor R.C. Moffatt</b> Student in year 3 or 4 (i.e., who has completed a minimum of 10.0 credits up to a maximum of 19.75 credits) enrolled as a statistics or

Ralph and Edi	ith Kidd Memorial Scholarship in Music [I0463]	Spanish Embassy Prizes [C0269]
Kidd, first chai	the Friends of Music of the University of Guelph in honour of Ralph irman of the Department of music, and his wife Edith Kidd, who were establishing the Thursday at Near expect arise in 1068. Application	Application not required.         Donor(s):       The Spanish Embassy
not required.	establishing the Thursday at Noon concert series in 1968. Application	<i>Qualification(s):</i> Most outstanding graduating students in Spanish. Academic standing will be used to determine the recipient.
Donor(s): Qualification(s	Friends of Music :): Student registered in the Honours B.A. or other honours degree program	Amount: 2 Book prizes
Qualification(s	with either a major or a minor in Music, who has completed at least	Statistics Graduation Prize [C0508]
	15.00 credits and who has the highest average (above 70%) in Music	Awarded at Summer Convocation. Application not required. One award of \$250 and a commemorative plaque.
Amount:	courses. 1 award of \$500	Donor(s):       College of Physical and Engineering Science
	rize in French [I0393]	<i>Qualification(s):</i> The graduating student who has majored in statistics and who in the
	University Professor Emeritus Rex A. Barrell. Application not required.	past year has graduated from an honours degree program with the
Donor(s):	Dr. Rex A. Barrell	highest cumulative average over 80%.Amount:1 award of \$250, 1 Commemorative plaque
	:): Awarded to the student with the best major essay in FREN*3070,	Stephanie Wilken Volunteer Award [10449]
Amount:	Enlightenment and Crisis in the previous fall or winter semester. 1 non-monetary	Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to
Ruth and Eber	r Pollard Award in Canadian History [10362]	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
	e Guelph Historical Society in recognition of Ruth and Eber Pollard's	Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.
	President and Vice-President, respectively, of the Society from 1973 to	Donor(s): Bev and Darlene Wilken
	ion not required.	<i>Qualification(s):</i> Student registered in any undergraduate degree program, who has been
Donor(s): Oualification(s	<b>The Guelph Historical Society</b> y): The award is for the best essay presented by a student in HIST*4470	a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all
Quanfication(s	or HIST*4970 in Canadian History, particularly its local dimension.	courses to date and volunteer work at the Wellness Centre.
Amount:	1 award of \$1,000	Amount: 1 award of \$1,000
Ruth and Eber	r Pollard Scholarship in Canadian History [10576]	Swiss Embassy Prizes [C0275]
	Ruth and Eber Pollard, former President and Treasurer, respectively, of	Offered by the Swiss Consulate. Application not required.
-	torical Society during the years 1972 to 1993. This award will be provided the demonstrates a passion for Canadian History and ongoing participation	Donor(s): Mr. H.W. Gasser, Swiss Embassy of Ottawa
	llness, or athletics. Apply by, April 1, to the department of History with	<i>Qualification(s):</i> Outstanding honour students in French, German and Italian at the end of the 8th semester.
	ore than two pages outlining academic credentials in History and ongoing	Amount: 3 Book prizes
	exercise and wellness.	T.K. Warley Agrifood Policy Prize [I0212]
Donor(s): Qualification(s	Mr. Eber and Mrs. Ruth Pollard (): Students majoring in History with a minimum cumulative program	Established by Prof. T.K. Warley, former Chair of the Department of Food Agriculture
Qualification(s	average of 80% who have completed a minimum of 5.0 course credits.	and Resource Economics and a faculty member of the Ontario Agricultural College from
Amount:	1 award of \$1,000	1970 to 1991. Application not required.
Samuel and Sa	aidye Bronfman Family Foundation Printmaking Prize [10035]	Donor(s):         Professor T.K. Warley           Qualification(s):         Student providing the best term paper written on a public policy issue
Application not	t required.	relating to the agrifood system or rural society in courses such as
Donor(s):	From the Samuel and Saidye Bronfman Family Foundation	AGEC*3030 Price and Production Analysis, AGEC*4000 Agricultural
Qualification(s	(c): Student enrolled in a printmaking course at any level who produces the most outstanding print during the semester. The prize-winning	and Food Policy, and AGEC*4720 Special Study in Food Agriculture and Resource Economics.
	print will become part of the Print Study Collection.	Amount: 1 award of \$500
Amount:	3 awards of \$100	Ted Hadwen Scholarship [C0463]
Samuel Sidlofs	sky Scholarship [C0114]	Application not required.
	ends, colleagues, and former students in recognition of the contributions	Donor(s): Department of Sociology and Anthropology
	amuel Sidlofsky to the University of Guelph Community over 24 years.	Qualification(s): Student graduating with an honours major in either Sociology or
Application not	Friends, colleagues and former students of Professor Samuel Sidlofsky	Anthropology whose thesis has been judged to be the best among those
Donor(s): Oualification(s	(c): Full-time student graduating at the Spring convocation or to a student	completed during the academic year ending with the completion of the Winter semester.
2	who has graduated at the previous Winter or Fall convocation in an	Amount: 1 award of \$100
	honours program in the Department of Sociology and Anthropology	Ted Newton Memorial Scholarship [I0198]
	with the highest aggregate mark in at least 2 courses dealing with prejudice, race, ethnicity, discrimination and/or aging.	Established in honour of Professor Ted Newton, the founding chair of the Department
Amount:	1 award of \$100	of Mathematics and Statistics. Awarded in the Fall semester. Application not required.
Society of Mar	nagement Accountants of Ontario Scholarship [C0268]	Donor(s): Family, friends and colleagues of Dr. T.D. (Ted) Newton
•	p will be awarded at summer convocation. Application not required. One	<i>Qualification(s):</i> 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
award of \$500	and a free course enrolment in the first complete CMA subject enrolled	credits) who has the highest average over 80% on a minimum of 4.0
in the Society's		credits in year 1 (i.e., while the first 4.0 to 4.75 credits are in progress.
Donor(s):	Society of Management Accountants, Grand River Chapter	A student may be considered for this award once only.
Qualification(s	(c): Full-time student graduating from B.Comm., B.A. (minor in Business Administration), or B.Sc. (minor in Business Administration), or	Amount: 1 award of \$1,500
	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 BUS*2220 and Intermediate	
Amount:	Accounting BUS*3330. 1 award of \$500, and a free course enrolment in the first complete	
mount.	CMA subject enrolled in the Society's program	

The Jack and I	illian MacDonald Scholarship [E0379]
	, and colleagues of Lillian MacDonald and Dr. Jack MacDonald.
	Academic, of the University of Guelph from 1986 to 1995, have
	olarship that recognizes their commitment to increasing the accessibility
-	y education to aboriginal persons. Apply by letter to Student Financial
Services by Apr	
Donor(s):	Jack and Lillian MacDonald
Qualification(s).	In the first instance, the award will be given to an entering student
	coming from the Grand River Polytechnical Institute (GRPI) and who
	has received the highest cumulative average in the Native University
	Access 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 GRPI who has the highest cumulative average at the University.
Amount:	1 award of \$900
Thomas H. Pete	ers Scholarship [I0233]
Application not	required.
Donor(s):	Friends and associates of Thomas H. Peters
Qualification(s).	· Student in any academic program of the University who has completed
	courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a
	minimum 10.0 credits completed. Applicants must have a minimum
	of 70% cumulative average and have demonstrated an interest and
	aptitude in the area of crops and land reclamation.
Amount:	1 award of \$250
Toronto Distric	t Beekeeper's Association Scholarship [I0285]
A scholarship is	offered by the Toronto District Beekeepers Association in memory of
the late Hugh M	cLeod, past chair of the Association. Application not required.
Donor(s):	Mr. Jack Robinson
	The recipient will have good academic standing, have participated in
2	extracurricular activities, and demonstrated a keen interest in
	beekeeping.
	1
Amount:	1 award of \$500
Tucker Scholar	ship for Women in Mathematics and Statistics [I0483]
Tucker Scholar Established by F	ship for Women in Mathematics and Statistics [I0483] Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study
Tucker Scholar Established by E of Mathematics	ship for Women in Mathematics and Statistics [I0483] Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the
Tucker Scholar Established by E of Mathematics award to the Dep	ship for Women in Mathematics and Statistics [I0483] Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.
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Tucker Scholar Established by E of Mathematics award to the Dep Donor(s):	<ul> <li>ship for Women in Mathematics and Statistics [I0483]</li> <li>Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.</li> <li>Emma Tucker, B.Sc.'96</li> <li>Female full-time mathematics or statistics major with a minimum cumulative average of 80% and completion of a minimum of 10.00</li> </ul>
Tucker Scholar Established by E of Mathematics award to the Dep Donor(s):	<ul> <li>ship for Women in Mathematics and Statistics [I0483]</li> <li>Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.</li> <li>Emma Tucker, B.Sc.'96</li> <li>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</li> </ul>
Tucker Scholar Established by E of Mathematics award to the Dep Donor(s): Qualification(s).	<ul> <li>ship for Women in Mathematics and Statistics [I0483]</li> <li>Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.</li> <li>Emma Tucker, B.Sc.'96</li> <li>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.</li> </ul>
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Tucker Scholar Established by E of Mathematics award to the Dep Donor(s): Qualification(s). Amount: United Steelwoo	<ul> <li>ship for Women in Mathematics and Statistics [I0483]</li> <li>Emma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.</li> <li>Emma Tucker, B.Sc.'96</li> <li>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.</li> <li>1 award of \$500</li> <li>ckers Local 4120 Scholarship [I0293]</li> </ul>
Tucker Scholar Established by E of Mathematics award to the Dep Donor(s): Qualification(s). Amount: United Steelwoo	<ul> <li>ship for Women in Mathematics and Statistics [I0483]</li> <li>mma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.</li> <li>Emma Tucker, B.Sc.'96</li> <li>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.</li> <li>1 award of \$500</li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31.</li> </ul>
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W.C. Winegard Medal [C0311]		
The W.C. Wineg	ard Medal is the most prestigious graduating award of the University	
	student will be nominated by each College Awards Committee. The	
	Committee will make the final selection and the medal will be awarded	
at Convocation in	n June. Application not required.	
Donor(s):	The Board of Governors' of the University	
Qualification(s):	Graduating student who excels both academically and in extracurricular	
Amount:	activities. 1 Gold medal	
W.N. Vaughan		
	lidates will be nominated by Senators and the medal winner will be	
-	mittee selected by the Striking Committee. The medal will be awarded	
	n June. Application not required.	
Donor(s):	Friends of Walter N. Vaughan	
	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 Medal	
W.S. Reid Essay	7 Prize [I0229]	
In honour of W.S	S. Reid, Professor Emeritus. Application 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	
	rgraduate Thesis Prize [10244]	
In honour of W.	S. Reid, Professor Emeritus. Application 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	
Amount:	History Project Seminar I and II on a non-Canadian topic. 1 award of \$200	
	1 award 61 \$200	
Walls Fasses M	-4h	
-	athematics Scholarship [10544]	
This scholarship	is named in honour of Professor Wally Fraser, a founding member of	
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This scholarship the Department this award once.	is named in honour of Professor Wally Fraser, a founding member of of Mathematics and Statistics. A student may only be considered for Awarded in the Fall semester. Application not required.	
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Wayne Thompson Prize [C0456]	Beatrice Youngman Prize in Music [I4378]
Established by the Department of Sociology and Anthropology in recognition of the leadership demonstrated by Dr. Wayne Thompson, Chair of the Department from 1978-1990. Application not required. <i>Donor(s):</i> <b>The Department of Sociology and Anthropology</b>	The Guelph Music Club, with the assistance of the Ontario government's OSOTF program, has provided this annual scholarship to honour Beatrice Youngman, a former piano teacher, a volunteer and President of the Club, and a recognized contributor to music and culture within Guelph and the driving force of the Guelph Music Club for
Donor(s):       The began there of sociology and Anthropology         Qualification(s):       Graduating student who has the highest overall cumulative average in an area of concentration in Sociology and Anthropology.         Amount:       1 award of \$100	over twenty years. Apply with a completed Financial Need Assessment Form (N.A.F. to Student Financial 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
William Furlong Scholarship in Microeconomics [10582]	Donor(s): The Guelph Music Club
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 not required. Donor(s): Colleagues & Friends of Dr. William Furlong	Qualification(s):       Student from the B.A. program in honours Music, with demonstrated financial need who has completed the sixth semester with the highes 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 \$2,000
Qualification(s): Full-time students enrolled in Introductory Microeconomics	C.P.E.S. Dean's Scholarship - ACCESS [14527]
(ECON*1050) Amount: 3 awards of \$200	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 Service
Wilma Hollywood Memorial Scholarship [I0509] Established by the Department of Psychology, in honour of the late Wilma Hollywood, a long-serving staff member. Application not required.	by October 7. Students will be considered for this award automatically once a N.A.I has been submitted by the deadline date. Awarded in the Winter semester. This award may be held once only. ACCESS AWARD
<i>Donor(s):</i> <b>Department of Psychology</b> <i>Qualification(s):</i> Student majoring in Psychology in either the B.A. or B.Sc. program	Donor(s):       Established by a number of industrial, commercial and public sector corporations
<i>Amount:</i> 1 award of \$200	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%
Year 3 Mathematics Scholarship [10506]	cumulative average is required. Additionally, students must meet the
Awarded in the Fall semester. Application not required.	government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Donor(s): The Department of Mathematics and Statistics	Amount: 1 award of \$750
Qualification(s): Fourth year student majoring in mathematics (i.e,. one who has	City of Guelph 175th Anniversary Scholarship [10515]
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 earing 10.0 to 14.75 credits). A student may be considered for this award once only.	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 Financia Services with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not tt exceed two pages in length from individuals familiar with the volunteer and/or community
Amount: 1 award of \$750	service contributions by Oct. 7. Selection will include equally weighted consideration of
Year 3 Statistics Scholarship [10507]	academic performance, leadership both on and off campus and financial need. Thi
Awarded in the Fall semester. Application not required.	award may be held only once.
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 earing 10.0 to 14.75 credits). A student may be considered for this award once only.           Amount:         1 award of \$750	Donor(s):       The Guelph Community Foundation         Qualification(s):       Students registered in any degree program with more than 5.0 credit: and less than 10.5 credits of full-time study, a minimum cumulative 70% average, demonstrated leadership and financial need. Applicant 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
In-course Scholarships with Financial Need	College of Arts Honours Scholarships [I4524]
-	Established by supporters of the College of Arts, with the assistance of the Ontario
<b>3M Canada Scholarships [10564]</b> 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. Awarded in the Winter semester.         Donor(s): <b>3M Canada Company</b>	government's OSOTF program. Apply with a completed Financial Need Assessmen Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date ACCESS AWARD Donor(s): Numerous Donors
<i>Qualification(s):</i> Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement. <i>Amount:</i> 2 awards of \$1,000	<i>Qualification(s):</i> 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
Alf and Mary Hales Undergraduate Scholarship in Political Science [I4511]	General Statements on Awards).
Alf and Mary Hales, with the assistance of the Ontario government's OSOTF program, endowed this annual award. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. Awarded in the winter. ACCESS AWARD. <i>Donor(s):</i> Alf and Mary Hales <i>Qualification(s):</i> Students with demonstrated financial need completing their third year	Amount: 5 awards of \$500
of study (semester 6) in an honours major in Political Science. The scholarships will be given to eligible students who have the highest cumulative averages in Political Science courses. Additionally, students must meet the government-mandated terms for receipt of an OSOTF	

2 awards of \$1,000

Amount:

award (see General Statements on Awards).

# 79

Earl B. MacNa	ughton C.P.E.S. ACCESS Scholarships [I4172]	George A. Gray O.A.C. '51 Varsity Scholarships [10487]
Earl B. MacNau, the College of I government's O Form (N.A.F.) to for this award a Awarded in the Donor(s):	friends, faculty, staff, alumni and students of the University to honour ghton, former head of the Department of Physics and founding Dean of Physical and Engineering Science, with the assistance of the Ontario SOTF program. Apply with a completed Financial Need Assessment o Student Financial Services by October 7. Students will be considered uutomatically once a N.A.F has been submitted by the deadline date. Winter semester. ACCESS AWARD. <b>Earl B. MacNaughton</b> : 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). 2 awards of \$1,000	Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Apply to Student Financial Services with a letter describing on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial need. Preference will be given to members of the varsity football team. Examples of leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation on university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the winter semester. <i>Donor(s):</i> Mrs. George A. Gray <i>Qualification(s):</i> Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average
		in all courses completed in the previous year of study and have
_	n & Bill Archibald Scholarships [14540] eanor and Bill Archibald, with the assistance of the Ontario government's	demonstrated leadership.
	n, provide this scholarship in memory of their parents. Apply with a	Amount: 2 awards of \$1,250
	ncial Need Assessment Form (N.A.F.) and a letter outlining community	Gerald and Mary Henley Rubio Scholarship [I4534]
ACCESS AWA Donor(s):	<ul> <li>Student Financial Services by October 7. Awarded in the Winter semester.</li> <li>RD.</li> <li>The Family of Eleanor &amp; Bill Archibald</li> <li>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).</li> <li>1 award of \$1,000</li> </ul>	<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li><i>Donor(s):</i> Professor Mary Henley Rubio and the late Gerald Rubio <i>Qualification(s):</i> 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</li> </ul>
		majoring in English are eligible, a student majoring in History may be
The family and t who was tragica her memory. Ap	<b>Idemorial Scholarship [I0406]</b> friends of Erin Demers, a first-year student at the University of Guelph lly killed in a car accident in 1996, have established this scholarship in ply to Student Financial Services by April 1 with a completed Financial nt Form (N.A.F.), along with one supporting reference letter from a	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
	stant, Residence Manager, or Residence Officer.	Gordon Ashton Scholarship [14535]
Donor(s): Qualification(s). Amount:	Family and friends of Erin Katrina Demers 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. 1 award of \$2,000	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. Awarded in the Winter semester. ACCESS AWARD <i>Donor(s):</i> <b>C. Dixon More</b>
Euclid-Hitachi	Scholarships [I4517]	<i>Qualification(s):</i> All statistics majors who have completed a minimum of 10.00 credits
government's OS studies as full-tin	Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario SOTF program, to assist students with financial need to continue their me students. Apply with a completed Financial Need Assessment Form lent Financial Services by October 7. Awarded in the Winter semester. RD	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
Donor(s):	Euclid-Hitachi of Canada Ltd.	Graham Family Incentive Scholarship [I4506]
	<ul> <li>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).</li> <li>awards of \$1,500</li> </ul>	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. Awarded in the Winter semester. 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

80	IX. Scholarships and Other Awards, Bachelor of Arts
Guelph Philosophical Society Scholarship [I4119]	Michael and Virginia Walsh Scholarship in Philosophy [I4529]
<ul> <li>Established by the Guelph Philosophical Society with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): The Guelph Philosophical Society</li> <li>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).</li> <li>Amount: 1 award of \$500</li> </ul>	<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD <i>Donor(s):</i> F. Michael Walsh, BA '69, MA '70, PhD '93 and D. Virginia (Trimble) Walsh, BA '72</li> <li><i>Qualification(s):</i> 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).</li> <li><i>Amount:</i> 1 award of \$1,000</li> </ul>
Guelph Varsity Athletic Accessibility Scholarship [10518]	R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]
<ul> <li>Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October</li> <li>7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.</li> <li>Donor(s): Alumni and friends of the University of Guelph</li> <li>Qualification(s): Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0)</li> </ul>	<ul> <li>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. Awarded in the winter.</li> <li>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</li> </ul>
credits).	Scottish Studies Foundation Scholarship [14541]
Amount: 2 awards of \$1,250	Provided with the assistance of the Ontario government's OSOTF program. The recipient
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 if applicable, attach a letter stating research interest and involvement. Awarded in the Winter semester. 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	<ul> <li>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.) ACCESS AWARD</li> <li><i>Donor(s):</i> Scottish Studies Foundation and private donors</li> <li><i>Qualification(s):</i> 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).</li> <li><i>Amount:</i> 1 award of \$4,000</li> </ul>
an independent study option. Additionally, students must meet the	Studio Arts Specialized Studio Practice Scholarship [14522]
government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).         Amount:       2 awards of \$500	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
Lin Coburn Memorial Scholarship [I4539]         Provided with the assistance of the Ontario government's OSOTF program, this award is for a B.A. student majoring in English who embodies and inspires a dedication for and a love of learning. Apply by letter (maximum 2 pages), expressing interest in the award and listing essays and/or other written material from courses competed in the program, along with a completed Financial Need Assessment Form, to Student Financial Services by October 7. Short-listed candidates will be contacted by SETS for copies of their academic portfolios. Students may hold this award only once. Awarded in the winter semester. ACCESS AWARD.         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	<ul> <li>(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 once only. Selection will be based on the student's portfolio. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): Numerous Donors</li> <li>Qualification(s): Studies with demonstrated financial need registered in SART*4850 Specialized Studio Practice I or SART*4860 Specialized Studio Practice II. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> <li>Amount: 1 award of \$400</li> <li>Tara Lynn Giuliani Memorial Award [10375]</li> <li>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 to the Centre for Students with Disabilities by November 25.</li> <li>Donor(s): The Giuliani Family</li> </ul>
	<i>Qualification(s):</i> Most academically promising applicant with a demonstrated disability and having financial need.

1 award of \$500 Amount:

2007-2008 University of Guelph Undergraduate Calendar

#### University of Guelph Retiree Association Degree Scholarship [10569]

This bursary is available to students who are related to a member of the U.G.R.A. as child, grand-child, or great grand-child. Selection will be based on the greatest demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and relationship to the U.G.R.A. member. *Donor(s):* University of Guelph Retirees Association (U.G.R.A.) *Qualification(s):* Students related to a member of U.G.R.A. that are registered in a degree

# *Qualification(s):* Students related to a memoer of U.G.K.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need. *Amount:* 1 award of \$1,000

#### William & Nona Heaslip Scholarship [10589]

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time 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

#### Willson Woodside Memorial Scholarship [14536]

Established in memory of Willson Woodside, a founding member and former chair of the Department of Political Science, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.), a covering letter outlining involvement on campus or in the community, and one letter of reference from an individual addressing the applicant's leadership ability to Student Financial Services, by October 7. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. Awarded in the Winter semester. ACCESS AWARD

#### Donor(s): Department of Political Science

( - ) -	•
Qualification(s):	Undergraduate student in Political Science who has completed at least
	10.00 credits with 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 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 Awards with Financial Need

#### 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 [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. Awarded in the Winter semester. 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.) to Student Financial 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): 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. Awarded in the Winter semester. 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. Awarded in the Winter semester. 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]

1 award of \$500

Amount:

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. Awarded in the Winter semester. 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 C	onservation Authority Foundation Bursary [I3007]	
Apply with a con	npleted Financial Need Assessment Form (N.A.F.) to Student Financial	
Services by October 7. Students will be considered for this award automatically once a		
N.A.F has been s	submitted by the deadline date. Awarded in the Winter semester.	
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.

David R. Leach Memorial Bursary [I3534]	Guelph Student Assistance ACCESS Bursaries [13556]
<ul> <li>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 by October 7. Awarded in the Winter semester. ACCESS AWARD</li> <li><i>Donor(s):</i> Mrs Deborah Leach-Sartor</li> <li><i>Qualification(s):</i> 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).</li> </ul>	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. Typically, awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> Central Student Association <i>Qualification(s):</i> Full-time undergraduate students registered in any degree program with demonstrated financial need. Additionally, students must meet
Amount: 1 award of \$1,000	the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Elizabeth Burton Bursaries [I3503]	Amount: Several awards of varying amounts up to \$1,000
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. Awarded in the Winter semester. 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	Guelph Student Assistance Program [13056]         These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Typically, awarded in the Winter semester.         Donor(s):       Undergraduate Students         Qualification(s):       Full-time undergraduate students registered in any degree program
George and Margaret J. Miles Memorial Bursary [I3544]	Amount: Several awards of varying amounts up to \$1,000
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. Awarded in the Winter semester. 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.).	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. Awarded in the Winter semester.         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,
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	all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter.
Gryphon Investment Council Bursaries [I3513]	Donor(s): Family and Friends of Helen Mahon
Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Awarded 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	Qualification(s):       Students registered in any program who come from a family where one parent is deceased.         Amount:       1 award of \$500
by the deadline date. Students will be considered for this award automatically once a	Howard and Myrtle Rogers Bursaries [13537]
<ul> <li>N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): Gryphon Investment Council Inc.</li> <li>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).</li> <li>Amount: 2 awards of \$1,500</li> <li>Guelph Compassionate Health Bursary [I3061]</li> </ul>	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. Awarded in the Winter semester. 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
This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond	previous years but students must demonstrate on-going financial need.
<ul> <li>Committee to assist students up to 80% of unforesent nearth needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.</li> <li><i>Donor(s)</i>: Student Health and Dental Plan Reserve <i>Qualification(s)</i>: Students must be registered on the University of Guelph Student Health Plan. The student must require treatment for a condition not currently or completely covered by the Student Health Plan.</li> <li><i>Amount</i>: Several varies to a maximum \$1,000</li> </ul>	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

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an on-going basis.

Donor(s):

Amount:

Donor(s)

Amount:

Donor(s):

Amount:

Donor(s)

Amount:

Donor(s):

Amount:

### International Emergency Medical Aid Assistance [I3059]

O.A.C. '38 Lloyd Minshall Bursaries [I3529] The University of Guelph provides support to International undergraduate students that Established by O.A.C. '38 Alumni, with the assistance of the Ontario government's are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates covered by UHIP or the Student Dental/Medical insurance plans. Students should apply and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to to the International Student Advisor, in the Centre for International Programs office, by Student Financial Services by October 7. Students will be considered for this award completing an International Student Financial Need Assessment Form (N.A.F.) and automatically once a N.A.F has been submitted by the deadline date. Awarded in the submitting documentation to support the medical issue. These bursaries are awarded on Winter semester. ACCESS AWARD O.A.C. '38 Alumni Donor(s): University of Guelph Qualification(s): O.A.C. undergraduate students with demonstrated financial need in Qualification(s): Any International student registered in a degree program at the semesters 5, 6, 7 or 8 and O.A.C. graduate students are eligible to apply. Additionally, students must meet the government-mandated University of Guelph with a minimum registration of 1.50 course credits. terms for receipt of an OSOTF award (see General Statements on Several awards of varying amounts Awards). 7 awards of \$1,000 Amount: International Student Bursaries [I3009] O.A.C. '55 Access Bursaries [I3517] Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the Provided by the class of O.A.C. '55 with the assistance of the Ontario government's International Student Advisor. OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) Mrs. Norma L. Valeriote to Student Financial Services by October 7. Students will be considered for this award Qualification(s): Students who are citizens of Third World countries, as defined by the automatically once a N.A.F has been submitted by the deadline date. Awarded in the United Nations, who are registered in a degree or diploma program Winter semester. ACCESS AWARD. and who demonstrate financial need. Several of varying amounts Donor(s): O.A.C. Class of '55 Qualification(s): Students at any semester level in an O.A.C. degree program or students Irvine and Grace Black Memorial Bursary [I3051] enrolled in the B.ENG. program with demonstrated financial need and Established in memory of Irvine and Grace Black, by friends and family to recognize a 60% minimum cumulative average. Additionally, students must meet their many contributions to young people. Irvine, a well-known sheep breeder, was a the government-mandated terms for receipt of an OSOTF award (see judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was General Statement on Awards). active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial Several awards of \$500 Amount: Services with a completed Financial Need Assessment Form (N.A.F.) and a letter O.A.C. '57 Bursaries [I3518] outlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded Provided by the Class of O.A.C. '57 with the assistance of the Ontario government's in the Winter semester. OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) Family and friends of Irvine and Grace B.L.A.ck to Student Financial Services by October 7. Students will be considered for this award Qualification(s): Full-time undergraduate students registered in any degree program automatically once a N.A.F has been submitted by the deadline date. Awarded in the with demonstrated financial need. Preference will be given to applicants Winter semester. ACCESS AWARD who are, or have been, active in the 4-H Club and/or a Women's O.A.C. '57 and the O.A.C. Alumni Foundation Institute. Donor(s): 1 award of \$500 Qualification(s): O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated Marie Hardacre Bursary [I3548] terms for receipt of an OSOTF award (see General Statements on Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHS with Awards). a preference to female students registered in the Department of Family Relations and Amount: 5 awards of \$1,000 Applied Nutrition. Apply by October 7 to Student Financial Services with a completed O.A.C. Alumni Foundation Access Bursaries [I3533] Financial Need Assessment Form. Students will be considered for this award Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario automatically once a N.A.F has been submitted by the deadline date. Awarded in the winter semester. ACCESS AWARD. 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 Mrs. A. Marie Hardacre for this award automatically once a N.A.F has been submitted by the deadline date. Qualification(s): Students registered in any academic program in the College of Social Awarded in the Winter semester, ACCESS AWARD and Applied Human Sciences with demonstrated financial need. Additionally, students must meet the government-mandated terms for Donor(s): **O.A.C.** Alumni Foundation receipt of an OTSS award (see General Statements on Awards). Qualification(s): O.A.C. undergraduate students with demonstrated financial need. 1 award of \$4,500 Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Mary I. Whitelock Bursaries [I3524] 4 awards of \$500 Amount: Established by the estate of Mary I. Whitelock, a friend of the University, with the Ontario Co-operatives R.P. Forshaw Bursary [I3013] assistance of the Ontario government's OSOTF program, to assist students who wish to The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have 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 established this bursary. Apply to Student Financial Services with a completed Financial will be considered for this award automatically once a N.A.F has been submitted by the Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. deadline date. Awarded in the Winter semester. ACCESS AWARD. The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Donor(s): Estate of Mary I. Whitelock Forshaw Qualification(s): Students with demonstrated financial need. Additionally, students must Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative meet the government-mandated terms for receipt of an OSOTF award or credit union. (see General Statements on Awards). 1 award of \$400 Amount: 13 awards of \$2,000 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. Awarded in the Winter semester.

	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.
ŀ	Amount:	Several of various amounts

Robert Auger Humanitarian Bursary [I3058]	University of Guelph Alumni Association Access Bursaries [13523]
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. <i>Donor(s):</i> Office of Registrarial Services	Established by the University of Guelph Alumni Association, with the assistance of th Ontario government's OSOTF program, to support students who wish to study full-tim but who need financial support to do so. Apply with a completed Financial Nee Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will b considered for this award automatically once a N.A.F has been submitted by the deadlin date. Awarded in the Winter semester. ACCESS AWARD.
Qualification(s):       Students who require assistance through this fund should apply in confidence to the Assistant Registrar, Financial Aid, Student Financial Services.         Amount:       Several awards of \$500	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).
Ron Scriver Memorial Bursary [I3547]	Amount: 2 awards of \$1,000
Established in memory of Mr. Ron Scriver (1946 - 32005) 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. <i>Donor(s):</i> <b>Family and Friends of Ron Scriver</b> <i>Qualification(s):</i> 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).	University of Guelph Child Care Bursaries [13053]         In order to provide accessible child care to students with (a) child(ren), the Universi of Guelph offers bursaries to students who have demonstrated financial need. Apply Student Financial Services, with a completed Financial Need Assessment Form (N.A.F by October 7. Awarded in the Winter semester.         Donor(s):       University of Guelph         Qualification(s):       Students, supporting (a) child(ren) who demonstrate greatest financi 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 financi need.         Amount:       Several awards of up to \$2,000
Amount: 1 award of \$1,500	University of Guelph International Bursary [I3048]
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. Awarded in the Winter semester. 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	<ul> <li>are faced with unexpected, or unforeseen financial shortfalls while registered on campu Students should apply to Benny Quay, in the Centre of International Programs office I completing an International Student Financial Need Assessment Form (N.A.F.). The bursaries are awarded on an on-going basis.</li> <li>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.</li> <li>Amount: Several varies</li> </ul>
OSOTF award (see General Statements on Awards).	University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [1303
Amount: 2 awards of \$1,500	The University of Guelph offers in-course bursaries to students who have demonstrat
<ul> <li>T.K. Warley Bursaries [I3510]</li> <li>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. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Donor(s): O.A.C. Alumni Association</li> <li>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).</li> <li>Amount: 3 awards of \$500</li> </ul>	<ul> <li>financial need. Apply to Student Financial Services, with a completed Financial Net Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.</li> <li><i>Donor(s):</i> University of Guelph</li> <li><i>Qualification(s):</i> Ontario students registered for full-time studies (as defined by OSA in a degree program with demonstrated financial need and a minimu of 2.0 course credits completed.</li> <li><i>Amount:</i> Several awardsranging in value from \$100 to \$3,000</li> <li>University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [1304</li> <li>The University of Guelph offers in-course bursaries to students who have demonstrate financial need. Apply to Student Financial Services, with a completed Financial Net Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.</li> <li><i>Donor(s):</i> University of Guelph</li> <li><i>Qualification(s):</i> Undergraduate students registered for full-time studies (as defined OSAP) in a degree program with demonstrated financial need and minimum of 2.0 course credits completed.</li> </ul>
University of Guelph Access Bursaries [13522]	Amount: Several awards to a maximum of \$800
<ul> <li>Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) diploma 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. Awarded in the Winter semester. ACCESS AWARD. Variable amounts from \$500 to \$2,000</li> <li><i>Donor(s):</i> Alumni and Friend of the University of Guelph</li> <li><i>Qualification(s):</i> 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).</li> <li><i>Amount:</i> Several awards of \$500, Several awards of \$2,000</li> </ul>	University Police Bursaries [I3019]         The University Police have made available a number of bursaries. Apply to Stude         Financial Services with a completed Financial Need Assessment Form (N.A.F.)         October 7. Students will be considered for this award automatically once a N.A.F h         been submitted by the deadline date.         Donor(s):       The University Police         Qualification(s):       Full-time undergraduate and graduate students who have 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. Typically, awarded in the Winter semester.

#### 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).
Amounts	Several awards of various amounts to a maximum of \$1,000

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, a travel budget, and a completed Financial Need Assessment Form (N.A.F.) 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 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 by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year.

#### Donor(s): Aeroplan

 Qualification(s): Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation in University of Guelph travel activities related to their academic program. Preference will be given to students participating in the semester abroad or academic exchanges.

 Amount:
 1 plane ticket per each semster

#### 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 1 for Fall 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 in semester 3 and above. Students must have at least a 70%
-	average and a primary area of interest related to natural resources
	management, environmental science, conservation, soil science and/o
	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 Bursary [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 by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1. ACCESS AWARD. Up to three awards totalling \$7500.

# Donor(s):Canadian Friends of the Hebrew University in JerusalemQualification(s):Undergraduate degree students in either the second or third year of<br/>study, Masters students in the first year of study, and Doctoral students<br/>in the first three years of study are eligible to be considered. Applicants<br/>must provide documentation that they have approval from the Hebrew<br/>University of Jerusalem (i) to take courses and (ii) for the period of<br/>the visit. Students must also arrange appropriate University of Guelph<br/>approvals for a "Letter of Permission" prior to applying. Additionally,<br/>students must meet the government-mandated terms for receipt of an<br/>OSOTF award (see General Statements on Awards).Amount:3 Awards with varying amounts

#### 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 April 1 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 \$1,000

#### Geography Field Trip Travel Grant [T0584]

In honour of the retirement of Dr. G.T. Bloomfield, former faculty member and Chair of the department of Geography from 1977 to 1982. Upon registration for GEOG \*4690, students will submit to the chair of the department 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.

I	Donor(s):	Alumni, Colleagues, and Friends of Dr. G.T. Bloomfield
I	Qualification(s):	Full-time students enrolled in the major honours program (B.A.H;
		B.Sc.(ESS); B.Sc.(Env)) in the Department of Geography who have
		completed 12.5 course credits and have an overall average of at least
		70% at the time of registration for GEOG *4690
	Amount:	1 award of \$450

#### 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 April 1, 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

Amount: undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study 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 April 1. 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: 3 awards of \$1,800

Last Revision: January 28, 2008

J.D. Cunningham Travel Grant [T0605]	O.A.C. '54 International Study Scholarship [T0586]
Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by April 1 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	<ul> <li>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 April 1, no more than two semesters prior to the commencement of the program.</li> <li>Donor(s): Class of O.A.C. '54</li> <li>Qualification(s): Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative program average</li> </ul>
<i>Qualification</i> (s). Students currently enioned 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. <i>Amount:</i> 1 award of \$2,000	<i>Amount:</i> 2 awards of \$1,450
Massey Fund Travel Scholarships [T0417]	Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
<ul> <li>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 April 15.</li> <li>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.     </li> <li>Amount: 1 award of \$750</li> </ul>	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 description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. ACCESS AWARD. <i>Donor(s):</i> The Estate of Richard Hungerford
Michael Chepesuik International Travel Grant [T0373]	Qualification(s): Registered undergraduate students with demonstrated financial need
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 April 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.	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
Donor(s): Mr. Michael W. Chepisuik	Robb Travel Grants [T3028]
Qualification(s):       Undergraduate or graduate 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	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 April 15. Varying amounts (80% of the travel costs will be covered up to \$750 per student). <i>Donor(s):</i> The estate of Martha Robb
O.A.C. '05 Excellence Travel Grant [T0060]	<i>Qualification(s):</i> O.A.C. students who are attending another university on a Letter of
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005.	Permission. Amount: Several varies
Apply to the O.A.C. Awards Office by April 1 with the submission of a letter of no longer than two pages outlining the intended study program/conference/or other type of	Roderick Long International Travel Grant [T0360]
<ul> <li>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.</li> <li>Donor(s): Class of OAC 1905 and the Class of OAC 2005</li> <li>Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.</li> </ul>	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 April 15, and include a description of the study abroad program. Travel grant (or grants) totalling \$1,500. Donor(s): Mr. Roderick W. Long Qualification(s): O.A.C. undergraduate student who is studying outside of Canada on
Amount: 1 award of \$300	an approved program for one or more semesters
O.A.C. '47 Travel Bursaries [T3505]	Amount: Several awards of \$1,500
<ul> <li>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 by letter with a completed Travel Award Application and a Financial Need Assessment Form (N.A.F.) for Travel awards to Student Financial Services by October 1, February 1 or June 1. ACCESS AWARD Donor(s): O.A.C. '47</li> <li>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).</li> </ul>	<b>University of Guelph Travel Scholarships [T0421]</b> The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. <i>Donor(s):</i> <b>University of Guelph</b>
Amount: 3 awards of \$600	Qualification(s):       Registered undergraduate and graduate students that have completed         S.0 credits with demonstrated financial need who have a minimum         70% cumulative average in the last two semesters of full-time         equivalent study are eligible to apply. The value of the award will         depend on the assessed financial need. The scholarship can cover         additional costs of travelling outside of Canada including: airfare,         administrative costs, and differential costs of accommodation.

Amount:

Several 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**

#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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

projects.	
Amount: 4 awards of \$7,000	

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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

Donor(s):	Board of Governors
Qualification(s)	: Outstanding students entering semester 1
Amount:	25 awards of \$8,000
Dr. Jack Britne	y Scholarship [E0034]
Established in m	emory 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	ation to a graduate student from any of the O.A.C. Diploma programs
CC 1	

faculty member in the former School of Food Agriculture and Resource Economics and Extension Education to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main campus.

Donor(s):	Friends and	Associates
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	1 anala of \$1,200
Amount:	1 award of \$1,200
	Diploma in Agriculture program.
	University of Guelph. Preference will be given to Graduates of the
	high academic achievement and entering a degree program at the
Qualification(s):	Graduate students from a University of Guelph Diploma program with

Gordon W. Innes Scholarship [E0140]

Application not required.

Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s):	Student from Oxford County with the highest admission average.
Amount:	1 award of \$1,400

#### 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 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. Application not required.

 Donor(s):
 The J.D. MacLachlan Trust

 Qualification(s):
 Student entering the University with the highest admission average.

 Amount:
 1 award of \$1,500

#### 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 inv	olvement in	extra-cur	rricular a	ctivities.		

Amount: 1 award of \$500

#### Lincoln Alexander Chancellor's Scholarship [E0493]

These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

#### Donor(s): Many Donors

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Qualification(s):	: Entering students of academic distinction who are Aboriginal, persons
	with a disability or members of a racial minority, and who have made
	significant contributions to their schools and communities and
	demonstrated the potential to become leaders in society. Financial need
	may be taken into consideration.
Amount:	2 awards of \$26,000
-	

# McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.

Donor(s): Wilhelmina McArthur-Humphries	Trust Fund
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Qualification(s):	Students entering semester 1 with a minimum 75% admission average.
	Preference will be given to those students from Lanark and Wellington
	Counties. 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.
Amount:	12 awards 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

#### Donor(s): Paul and Aileen Clarke

Qualification(s):	Students with a minimum 80% average with a record of leadership
	and community participation are eligible. Preference will be given to
	candidates from Blenheim district or Kent County and who were raised,
	or have worked, on a farm. Students may be contacted to provide
	special need circumstances if there is a short list of equal candidates.
Amount:	1 award of \$12,000

President's Scho	olarship [E0238]	University of Guelph Entrance Scholarships [E0291]	
of \$26,000 (\$6,5 after the first year or distinguished award. Nominati- two students; o science/humaniti school's nominat the material sent High schools mu	ious entrance awards at the University of Guelph. Twelve scholarships 00 annually) plus the opportunity for a summer research assistanship of study (approximately \$6,000 stipend), named to honour their donors members of the University. Students cannot apply directly for this ons must be made by each high school. Each high school can nominate one entering a science program and one entering an arts/social es program. The nomination process is a two-part process: (a) the ion and (b) the student's supporting documentation. This is outlined in to each high school in Canada from the University of Guelph each fall. st submit the complete application (both parts) directly to the Associate tt Financial Services by Feb. 1.	This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required.         Donor(s):       University of Guelph         Qualification(s):       Students entering their first year of post-secondary studies for the first time and have a minimum 85% admission average.         Amount:       Several awards ranging in value from \$2,000 to \$3,000	
Donor(s):	A number of President's Scholarships have been named in honour of the	University of Guelph Faculty Association Scholarship [E0292]	
	<ul> <li>following people and/or donors:</li> <li>Dick Brown</li> <li>Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1968 to 1988.</li> <li>Cecil H. Franklin and Ingrid Franklin</li> <li>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.</li> <li>Charles S. Humphrey</li> <li>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.</li> <li>Jack R. Longstaffe</li> <li>The University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President's Entrance Scholarship program.</li> <li>Burton C. Matthews</li> <li>The University of Guelph has named one of these twelve prestigious entrance awards in monour of Burton C. Matthews to recognize his insight and leadership in establishing the President's Entrance Scholarship program.</li> </ul>	<ul> <li>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. Application nor required.</li> <li>Donor(s): University of Guelph Faculty Association</li> <li>Qualification(s): Student entering an undergraduate degree program at the University of Guelph with the highest admission average who has been a resident in the County of Wellington during the previous twelve months.</li> <li>Amount: 1 award of \$2,250</li> <li>W. Penri Morris Memorial Scholarship [E0430]</li> <li>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 Forces 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 not required.</li> <li>Donor(s): Prof. Rosalina Morris</li> <li>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.</li> </ul>	
	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	Entrance Scholarships with Financial Need	
	Cable Ltd. and a member of the University of Guelph Heritage Board (1996).	Bill Klopp Memorial Award [E0150]	
Qualification(-)	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.	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 May 1. 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). Donor(s): Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener	
	Entering students of academic distinction who have made significant contributions to their schools and communities and demonstrate the potential to become leaders in society. 12 awards of \$26,000	or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has financial need.	
Amount: The Jack and Li	illian MacDonald Scholarship [E0379]	Amount: 1 award of \$500	
Family, friends, Vice-President,	and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Academic, of the University of Guelph from 1986 to 1995, have plarship that recognizes their commitment to increasing the accessibility		

1 award of \$900

Jack and Lillian MacDonald

Services by April 1. Donor(s): Jac

Amount:

of post-secondary education to aboriginal persons. Apply by letter to Student Financial

*Qualification(s):* In the first instance, the award will be given to an entering student

coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University.

#### Devine Family Scholarship [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. 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.

#### Mr. Peter J. Devine Donor(s):

Qualification(s): Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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).

#### 1 award of \$25,000 (payable over 4 years of study) Amount:

#### Registrar's Entrance Scholarships [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 (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 May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.

#### University of Guelph Donor(s):

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic merit.
Amount:	500 awards of \$2,000

#### 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 (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 May 1. ACCESS AWARD

#### Donor(s): **Rol-Land Farms**

Qualification(s).	· Outstanding entering undergraduate degree students 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

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### University of Guelph Donor(s):

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

#### **Entrance Awards with Financial Need**

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

#### Harvey Graham, O.A.C. '39 Donor(s):

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. Students who have applied to the University of Guelph will receive an application form.

#### University of Guelph Donor(s):

Qualification(s): Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need. Several awards of \$1,000, Several awards of \$3,000 Amount:

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

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

In-course Scholarships	
Bill Taylor Memorial Scholarship [I0280]	
11	nclude a supporting letter from a coach or intramural supervisor. Apply cial Services by April 1.
Donor(s):	AMF Canada Ltd.
Qualification(s): Amount:	<ul> <li>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.</li> <li>1 award of \$900</li> </ul>
CFRU Voluntee	er Award [I0215]
Apply to the CF	RU 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.

#### Class of 1970 Scholarship [I0424]

2 awards of \$250

Amount:

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 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

Collins Barrow Award [10040]	John Eccles Scholarship [10093]
Offered by Collins Barrow, a national firm of Chartered Accountants. Awarded in the	Nominations, accompanied by appropriate resumes, are to be submitted to Studer
Winter semester. Application not required.	Financial Services by April 1.
Donor(s): Collins Barrow Chartered Accountants	Donor(s): Student Housing Services
<i>Qualification(s):</i> Student with the highest grade in course BUS*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship	<i>Qualification(s):</i> 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
will be given to the student with the highest cumulative average in	or who is in the top 10% of his/her program. The recipient must have
their program.	demonstrated responsibility and leadership qualities through
Amount: 1 award of \$500	participation in residence related activities. Residence Life Staff and
David F. Boyes Apiculture Scholarship [I0031]	paid members of Interhall Council and Hall Councils are not eligibl Amount: 1 award of \$600
Established in memory of David Boyes a technician in the Apiculture Field Laboratory.	Kenneth W. Hammond Award [10045]
Application not required.	The evaluation of the student will be based on the final essay in the "Environment
Donor(s):         The Apiculture Club           Qualification(s):         Student registered in the Fall semester who achieves high academic	Perspectives and Human Choice: 5000 Days" course. The selection committee will be
standing in Introductory Apiculture (ENVB*2210) in the previous	comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physic
year, demonstrates an interest in apiculture and who has participated	and Engineering Science and the Dean of Biological Science. Application not require
in extracurricular activities.	Donor(s): Kenneth W. Hammond
Amount: 1 award of \$150	<i>Qualification(s):</i> Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.
Deans' Scholarships [10323]	Amount: 1 award of \$1,000
Offered by the Board of Governors. Recipients will be selected by each of the College Awards Committees. Winners will be notified in the Fall semester. Application not	Kip Hunter Prize [10139]
required.	For the best essay, written by an undergraduate in a philosophy course. The essay ma
Donor(s): Board of Governors	be either a required assignment for a course (in which case either the student or the
Qualification(s): Students registered in any degree program. The primary academic	instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by the end of the 12th week of the
criteria is placement on the Deans' Honours List for two consecutive semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.	Winter semester.
program, in the previous Fall/Winter/Summer sequence.	Donor(s): Faculty, students and staff of the Philosophy Department
Amount: 150 awards of \$1,000	Qualification(s): Any undergraduate who has registered for a philosophy course durin
Edward Johnson Music Foundation Scholarship [10608]	the academic year in which the prize is awarded.
This scholarship supports the mission of the Edward Johnson Music Foundation to ensure	Amount: 1 Book prize
that young people have access to the best musical education possible and to recognize	Lambda Foundation Scholarship in LBGT Studies [I0591]
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	This award is provided to encourage research on the subject of lesbian, bisexual, ga and transgendered (LBGT) peoples. The scholarship is based upon areas of researc
communities through performance and music education. Apply to the Department of	pertaining to the history, contributions, and issues by or about LBGT peoples. Preference
Music by April 1 with a letter or C.V. listing musical contributions.	will be given to an applicant who is involved in the LBGT community as demonstrate
Donor(s): Edward Johnson Music Foundation	by a record of volunteer activities, active civil society memberships, or as attested by letter of recommendation from a community group, or evidenced by related previou
<i>Qualification(s):</i> Students in an Honours degree program with a declared major or minor in Music, who have completed a minimum of 10.0 credits towards	academic pursuits. This scholarship may be awarded to a given student only once. Project
their degree and who have a minimum cumulative average of 80% in	must have been completed or research proposals accepted within the past calendar year
MUSC courses.	Apply to the Dean of Arts by December 15th including the research proposal or complete
Amount: 1 award of \$500	project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.
Governor General's Medal [C0044]	Donor(s): Lambda Foundation and other donors
Established by the Office of the Governor General of Canada. Application not required.	<i>Qualification(s):</i> Students enrolled in a program with a thesis, a research essay,
Donor(s): The Chancellery	independent research project or course work programs pertaining to
<i>Qualification(s):</i> Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two	lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.
convocations, with the highest cumulative average.	Amount: 1 award of \$1,000
Amount: 1 Silver medal	Leonard Conolly Exchange Student Scholarship [10446]
International Undergraduate Scholarship [I0577]	Established by students, faculty, staff and friends to honour Prof. Leonard Conoll
Established through a student referendum approved by the undergraduate student body,	professor of drama, Chair of the Department of Drama, 1981-88, and Associa
to recognize international students' academic merit along with involvement/leadership	Vice-President Academic, 1988-1992. Apply to the Centre for International Program
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 April 1,	by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by t Centre for International Programs, will be based on assessment of (a) a one-pa
with a letter indicating involvement/extracurricular activity since entry to the University,	submission describing the significance of the student visiting Guelph to the program
two academic and/or professional references, and a completed Financial Need Assessment	study at the partner exchange university (b) two faculty references of one-page eac
Form (N.A.F.) for International Students form. This award can only be held once by the	and (c) consistent high performance in the course work completed, as documented by transcript of program grades to date, submitted by the home university.
student. Donor(s): International Student Organization (ISO)	transcript of program grades to date, submitted by the home university. <i>Donor(s):</i> Students, staff, faculty and friends of Dr. Leonard Connolly
Donor(s):         International Student Organization (ISO)           Qualification(s):         Full-time International students (defined as those paying full	Donor(s):         Students, staff, faculty and friends of Dr. Leonard Connolly           Qualification(s):         Full-time visiting exchange undergraduate or graduate student,
international student tuition without exemption), who have completed	registered at Guelph for at least one semester, from any country in the
at least 4.0 course credits from the University of Guelph with a	South (a list of eligible countries and exchange partner universities
minimum cumulative average of 75%, and is registered at the time of application.	available in the Centre for International Programs). Amount: 1 award of \$1,000
Amount: 1 award of \$1,000	Amount: 1 award of \$1,000
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 not required.	
Donor(s): Faculty, staff, alumni and students, of the former College of Social Science	
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 Medal	

#### IX. Scholarships and Other Awards, Bachelor of Arts and Science Marion McKenzie Prizes 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 not required. TBA Donor(s): 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 3 awards of \$250 Amount: 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 Stephanie Wilken Volunteer Award [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 The 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. Apply by letter to Student Financial Services by April 1. Donor(s): Jack and Lillian MacDonald *Qualification(s):* In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University. Amount 1 award of \$900 Thomas H. Peters Scholarship [I0233] Application not required. Friends and associates of Thomas H. Peters Donor(s): 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. 1 award of \$250 Amount 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 not required. Mr. Jack Robinson Donor(s): Qualification(s): The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. 1 award of \$500 Amount:

United Steelwor	kers Local 4120 Scholarship [I0293]	
	t Financial Services, by January 31.	
Donor(s):	United Steelworkers LU4120	
	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 compared of the provident of the semester of	
	the Winter semester. 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, provided that a	
	minimum of 70% standing is obtained.	
Amount:	1 award of \$1,000	
	l Van Der Hoeven Memorial Scholarship [I0296]	
	be made by nominations signed by 4 currently registered students	
	dent Financial Services by April 1. Presentations are made 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. 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.	
Amount:	2 awards of \$400	
W.C. Winegard		
	ard Medal is the most prestigious graduating award of the University	
	student will be nominated by each College Awards Committee. The	
-	Committee will make the final selection and the medal will be awarded	
at Convocation is	n June. Application not required.	
Donor(s):	The Board of Governors' of the University	
Qualification(s):	Graduating student who excels both academically and in extracurricular	
A	activities.	
Amount:	1 Gold medal	
W.N. Vaughan		
<u>^</u>	lidates 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		
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at Convocation is	n June. Application not required.	
at Convocation in <i>Donor(s)</i> :	n June. Application not required. Friends of Walter N. Vaughan	
at Convocation in <i>Donor(s)</i> :	n June. Application not required.	
at Convocation in <i>Donor(s):</i>	n June. Application not required. <b>Friends of Walter N. Vaughan</b> 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.	
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2 awards of \$1,000

Amount:

92	IX. Scholarships and Other Awards, Bachelor of Arts and Science
City of Guelph 175th Anniversary Scholarship [10515]	George A. Gray O.A.C. '51 Varsity Scholarships [I0487]
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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7.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 with more than 5.0 credits and less than 10.5 credits of full-time study, a minimum cumulative 70% average, demonstrated leadership 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	<ul> <li>Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and great player of the game. Apply to Student Financial Services with a letter describing on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on you N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financia need. Preference will be given to members of the varsity football team. Examples o leadership may include academic tutoring, mentoring team mates, assisting in thorganization and promotion of varsity and/or intramural athletics, participation or university committees, such as in residences, on Senate or in Colleges, and simila off-campus activities. Students may receive the award up to four times. Awarded in the winter semester.</li> <li><i>Donor(s):</i> Mrs. George A. Gray</li> <li><i>Qualification(s):</i> Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have</li> </ul>
Eleanor Morgan & Bill Archibald Scholarships [14540] The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's	demonstrated leadership.
OSOTF program, provide this scholarship in memory of their parents. Apply with a	Amount: 2 awards of \$1,250
completed Financial Need Assessment Form (N.A.F.) and a letter outlining community	Graham Family Incentive Scholarship [14506]
involvement to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS AWARD.	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.)
Donor(s): The Family of Eleanor & Bill Archibald	to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS
Qualification(s): Students registered in any program with a minimum of 5.0 credits who	AWARD
have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the	<i>Donor(s):</i> Harvey Graham O.A.C. '39 <i>Qualification(s):</i> Students entering the fourth year of a four year degree program,
government-mandated terms for receipt of an OSOTF award (See	maintaining at least a 70% program average and demonstrating financia
General Statements on Awards).	need, who have previously received the Harvey Graham Bursary.
Amount: 1 award of \$1,000	Additionally, students must meet the government-mandated terms for
Erin Demers Memorial Scholarship [I0406]	receipt of an OSOTF award (see General Statements on Awards). Amount: 1 award of \$5,000
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	Guelph Varsity Athletic Accessibility Scholarship [10518]
<ul> <li>her memory. Apply to Student Financial Services by April 1 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.</li> <li>Donor(s): Family and friends of Erin Katrina Demers</li> <li>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.</li> <li>Amount: 1 award of \$2,000</li> </ul>	Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.  Donor(s): Alumni and friends of the University of Guelph Qualification(s): Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0 credits). 
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario	Tara Lynn Giuliani Memorial Award [10375]
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. Awarded in the Winter semester. ACCESS AWARD Donor(s): Euclid-Hitachi of Canada Ltd. Qualification(s): Students with a minimum cumulative average of 70% with	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 to the Centre for Students with Disabilities by November 25. Donor(s): <b>The Giuliani Family</b> Qualification(s): Most academically promising applicant with a demonstrated disability
demonstrated financial need. Additionally, students must meet the	and having financial need.
government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	Amount: 1 award of \$500
Amount: 2 awards of \$1,500	<ul> <li>University of Guelph Retiree Association Degree Scholarship [I0569]</li> <li>This bursary is available to students who are related to a member of the U.G.R.A. as child, grand-child, or great grand-child. Selection will be based on the greates demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and relationship to the U.G.R.A. member.</li> <li>Donor(s): University of Guelph Retirees Association (U.G.R.A.)</li> <li>Qualification(s): Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need.</li> </ul>
	Amount: 1 award of \$1 000

Amount:

1 award of \$1,000

#### William & Nona Heaslip Scholarship [10589]

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time 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 Awards with Financial Need

#### 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. Awarded in the Winter semester. 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.) to Student Financial 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): 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. Awarded in the Winter semester. 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. Awarded in the Winter semester. 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. Awarded 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. Students will be considered for this award date. Awarded in the Winter semester. 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 Bursary [I3061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.

#### Donor(s): Student Health and Dental Plan Reserve

Qualification(s):	Students must be registered on the University of Guelph Student Health
	Plan. The student must require treatment for a condition not currently
	or completely covered by the Student Health Plan.
Amount:	Several varies to a maximum \$1,000

#### 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. Typically, awarded in the Winter semester. ACCESS AWARD.

#### Donor(s): Central Student Association

Qualification(s):	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).
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. Typically, awarded in the Winter semester.

#### 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]	Ontario Co-operatives R.P. Forshaw Bursary [I3013]			
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	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 Financia Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.			
7 with a Financial Need Assessment Form and indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter.	Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P.			
Donor(s): Family and Friends of Helen Mahon	<b>Forshaw</b> <i>Qualification(s):</i> Undergraduate students who have financial need. Preference may be			
<i>Qualification(s):</i> Students registered in any program who come from a family where one parent is deceased.	given to candidates who have been or are members of a co-operative or credit union.			
Amount: 1 award of \$500	Amount: 1 award of \$400			
Howard and Myrtle Rogers Bursaries [I3537]	Robert Auger Humanitarian Bursary [13058]			
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. Awarded in the Winter semester. ACCESS AWARD <i>Donor(s):</i> <b>The Estate of Howard and Myrtle Rogers</b> <i>Qualification(s):</i> Students with demonstrated financial need. Preference will be given	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 assis students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. <i>Donor(s):</i> <b>Office of Registrarial Services</b> <i>Qualification(s):</i> Students who require assistance through this fund should apply in			
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	confidence to the Assistant Registrar, Financial Aid, Student Financia Services.			
previous years but students must demonstrate on-going financial need.	Amount: Several awards of \$500			
Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	Scotiabank Bursaries [I3532]			
Amount: 10 up to \$2,000	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			
International Emergency Medical Aid Assistance [I3059]	students. Distributed in the Winter semester. Apply with a completed Financial Need			
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.	Assessment Form (N.A.F.) to Student Financial 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):       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).			
Donor(s): University of Guelph	Amount: 2 awards of \$1,500			
Qualification(s): Any International student registered in a degree program at the	University of Guelph Access Bursaries [I3522]			
University of Guelph with a minimum registration of 1.50 course credits.	Provided by alumni and friends of the University, with the assistance of the Ontario			
Amount: Several awards of varying amounts	government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) diploma students who wish to study full-time but who need financial support to do so.			
International Student Bursaries [I3009] Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor.	Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial 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. Variable amounts from \$500 to \$2,000			
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	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).			
Irvine and Grace Black Memorial Bursary [I3051]	Amount: Several awards of \$500, Several awards of \$2,000			
Established in memory of Irvine and Grace Black, by friends and family to recognize	University of Guelph Alumni Association Access Bursaries [I3523]			
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. Awarded in the Winter semester.	Established by the University of Guelph Alumni Association, with the assistance of th Ontario government's OSOTF program, to support students who wish to study full-tim but who need financial support to do so. Apply with a completed Financial Nee Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will b considered for this award automatically once a N.A.F has been submitted by the deadlin date. Awarded in the Winter semester. ACCESS AWARD.			
Donor(s):       Family and friends of Irvine and Grace B.L.A.ck         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.	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			
Amount: 1 award of \$500	University of Guelph Child Care Bursaries [13053]			
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	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.			
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	by October 7. Awarded in the Winter semester. Donor(s): University of Guelph Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financia			
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.	need, to offset the costs of child care. To be eligible, undergraduate			
will be considered for this award automatically once a N.A.F has been submitted by the	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 financia need.         Amount:       Several awards of up to \$2,000			

University of Guelph International Bursary [13048]	Arthur D. Latornell Undergraduate Travel Grants [T0058]
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.	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 1 for Fall 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. <i>Donor(s):</i> <b>The Estate of Arthur D. Latornell</b>
Amount: Several varies	<i>Qualification(s):</i> Students in semester 3 and above. Students must have at least a 70%
University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [13037]	average and a primary area of interest related to natural resources
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. Awarded in the Winter semester. Donor(s): University of Guelph	management, environmental science, conservation, soil science and/orrural development. Students will be asked to submit a one-page reviewof 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
<i>Qualification(s):</i> Ontario students registered for full-time studies (as defined by OSAP)	Canadian Friends of the Hebrew University in Jerusalem Travel Bursary [T4532]
in a degree program with demonstrated financial need and a minimum	The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the
of 2.0 course credits completed. Amount: Several awardsranging in value from \$100 to \$3,000	Ontario government's OSOTF program, have established these travel scholarships to
	assist students study at the Hebrew University of Jerusalem. Apply by letter with a
University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047] The University of Guelph offers in-course bursaries to students who have demonstrated	completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1, ACCESS AWARD, Up to three awards totalling \$7500
financial need. Apply to Student Financial Services, with a completed Financial Need	May 1. ACCESS AWARD. Up to three awards totalling \$7500. Donor(s): Canadian Friends of the Hebrew University in Jerusalem
Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. 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 and a minimum of 2.0 course credits completed. Amount: Several awards to a maximum of \$800	Qualification(s): Undergraduate degree students in either the second or third year of study, Masters students in the first year of study, and Doctoral students in the first three years of study are eligible to be considered. 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
University Police Bursaries [I3019]	approvals for a "Letter of Permission" prior to applying. Additionally,
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.	students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).         Amount:       3 Awards with varying amounts         Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
Donor(s):       The University Police         Qualification(s):       Full-time undergraduate and graduate students who have financial need.         Amount:       Several of various amounts	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 description of the intended travel, an estimate of the travel
University Student Assistance Program [I3057]	costs and a completed Financial Need Assessment Form (N.A.F.) at least one month
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial	prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. ACCESS AWARD.
need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Typically, awarded in the Winter semester. 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	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
Student Loan Program (CSLP).           Amount:         Several awards of various amounts to a maximum of \$1,000	University of Guelph Travel Scholarships [T0421]
In-course Travel Grants	The University of Guelph, through the sale of Guelph London House, has established on and automate to provide travel scholarships to undergraduate and graduate students
	an endowment to provide travel scholarships to undergraduate and graduate students who wish to study outside of Canada but need financial support to do so. Preference will
Aeroplan International Travel Grant [T0604] Established to provide students with an airline ticket to international destinations served	be given to students participating in the London Semester. Students may only receive
by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year.	this travel grant once per degree. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. <i>Donor(s):</i> University of Guelph
Donor(s):       Aeroplan         Qualification(s):       Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation in University of Guelph travel activities related to their academic program. Preference will be given to students participating in the semester abroad or academic exchanges.         Amount:       1 plane ticket per each semster	Qualification(s): Registered undergraduate and graduate students that have completed         5.0 credits with demonstrated financial need who have a minimum         70% cumulative average in the last two semesters of full-time         equivalent study are eligible to apply. The value of the award will         depend on the assessed financial need. The scholarship can cover         additional costs of travelling outside of Canada including: airfare,         administrative costs, and differential costs of accommodation.         Amount:       Several up to \$1,500

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**

# 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 not required. Two awards of \$1,250 paid in two installments of \$625.

Donor(s): William B. Lowe and Amos Edgar Low
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Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College. 2 awards of \$1,250 Amount:

#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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.

#### The Frank Agro Estate Donor(s)

		-
Q	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.
A	mount:	4 awards of \$7,000

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

#### Donor(s): **Board of Governors**

Qualification(s): Outstanding students entering semester 1 25 awards of \$8,000 Amount.

# Dr. C. John Small Commonwealth Scholarship [I0611]

Established in honour of Dr. C. John Small, OAC BSA '42, Hon D. Law '75, and his lifelong dedication to foreign service. Selection will be based on the assessment of : (a) a one-page submission describing the significance for the student visiting Guelph to the program of study at the partner exchange University, (b) two faculty references of no more than one-page each, and (c) consistent high performance in course work completed, as documented by a transcript of program grades to date. Apply to the Centre for International Programs by May 1 for visiting during the subsequent Fall or Winter semesters with the above mentioned documents.

#### Donor(s): Mrs. Jean K. Small

Qualification(s):	Full-time visiting exchange students registered for at least one semester
	from a Commonwealth developing country who are pursuing studies
	or conducting research in the area of agriculture and rural development.
Amount:	1 award of \$1,500

IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree				
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 to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main campus.				
Donor(s): Qualification(s): Amount:	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. Preference will be given to Graduates of the Diploma in Agriculture program.			
Elite Swine Ent	rance Scholarship [E0532]			
undergraduate Pr Committee by Se Donor(s):	Elite Swine Inc.			
Qualification(s): Amount:	High school graduates who have applied to O.A.C. undergraduate programs, based on admission average, contributions to their schools and communities and on their potential to become leaders in society. Preference will be given to students with a strong interest in animal science, particularly swine production. 5 awards of \$1,000			
	es Scholarship [E0140]			
Application not r				
Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.			
Qualification(s): Amount:	Student from Oxford County with the highest admission average. 1 award of \$1,400			
International St	udent 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 not required.				
Donor(s): Qualification(s): Amount:	<b>University of Guelph</b> 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. Several awards ranging in value from \$500 - \$6,000			
J.D. MacLachla	n Scholarship [E0170]			
Provided by the	family of J.D. MacLachlan. Application not required.			
Donor(s): Qualification(s): Amount:	<b>The J.D. MacLachlan Trust</b> Student entering the University with the highest admission average. 1 award of \$1,500			
	ler Chancellor's Scholarship [E0493]			
These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.				
Donor(s): Qualification(s):	Many Donors Entering students of academic distinction who are Aboriginal, persons with a disability or members of a racial minority, and who have made significant contributions to their schools and communities and			

McArthur-Hur	nphries Scholarship [E0183]	President's So	holarship
awarded to stud highest admissio Donor(s):	<ul> <li>e Wilhelmina McArthur-Humphries Trust Fund. This scholarship is ents entering any undergraduate degree program and are based on the on average. Application not required.</li> <li>Wilhelmina McArthur-Humphries Trust Fund</li> <li>Students entering semester 1 with a minimum 75% admission average. Preference will be given to those students from Lanark and Wellington Counties. An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from the other county, the awards will be given to eligible applicants from the other county.</li> <li>12 awards of \$1.000</li> </ul>	The most prest of \$26,000 (\$6 after the first y or distinguish award. Nomin two students; science/humar school's nomin the material se High schools r Registrar, Stud	5,500 annu ear of study ed member ations mustor one enten nities progration and ( nt to each h nust submit
	helor of Bio-Resource Management Entrance Scholarships [E0585]	Donor(s):	A numb followin
outlining career related activities Donor(s): Qualification(s)	Class of O.A.C. '49 O.A.C. Alumni Foundation : Students entering the first semester of the BBRM program with a minimum 75% admission average.		Two of t whose le Universi <b>Cecil H.</b> In honor Honorar these two
Amount:	2 awards of \$2,500		and volu Charles
Paul and Aileer scholarship in h Apply by letter of have completed submit to Stude University for a Assessment For year. This awar Scholarship. An a minimum 70%	<b>Camily Scholarship [E0381]</b> In Clarke and their family established the endowment for this entrance bonour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Doutlining extracurricular and/or community activities, ensuring that you a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and ent Financial Services by April 1. Students who have applied to the admission will receive information on completing a Financial Need m (N.A.F.) for Entrance Awards from the University early in the calendar d is not tenable with the President's or Lincoln Alexander Chancellor's nual payments are contingent upon full-time enrolment and maintaining % average on the previous Fall and Winter semesters. One award of 0 annually for 4 years).		In memo Company these two through I <b>Jack R.</b> The Univ awards in through I <b>Burton</b> ( The Univ awards in in establi <b>Kathlee</b>
Donor(s): Qualification(s) Amount:	<b>Paul and Aileen Clarke</b> : Students with a minimum 80% average with a record of leadership and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. 1 award of \$12,000		Mr. and distingui Metcalf r of Macle Cable Lt <b>Rol-land</b> Two of tl
			Limited families

# [E0238]

rance awards at the University of Guelph. Twelve scholarships ally) plus the opportunity for a summer research assistanship y (approximately \$6,000 stipend), named to honour their donors rs of the University. Students cannot apply directly for this t be made by each high school. Each high school can nominate ering a science program and one entering an arts/social ram. The nomination process is a two-part process: (a) the (b) the student's supporting documentation. This is outlined in high school in Canada from the University of Guelph each fall. t the complete application (both parts) directly to the Associate cial Services by Feb. 1.

#### er of President's Scholarships have been named in honour of the g people and/or donors: own

the scholarships, endowed by Dr. Patrick Lett are awarded to winners eadership qualities best reflect those demonstrated by Dick Brown in ity Athletics from 1968 to 1988.

#### . Franklin and Ingrid Franklin

ur of Cecil Franklin, former Chair of the Board of Governors and ry Fellow of the University, the University of Guelph has named one of elve prestigious entrance awards to recognize his financial contributions inteer support to the President's Entrance Scholarship program.

#### S. Humphrey

ory of Charles S. Humphrey, a former President of Hart Chemical y Canada Ltd. and long-time friend, the University has named one of elve prestigious entrance awards to recognize his financial contribution his estate to the President's Entrance Scholarship program.

#### Longstaffe

versity of Guelph has named one of these twelve prestigious entrance in memory of Jack R. Longstaffe to recognize his financial contribution his estate to the President's Entrance Scholarship program.

#### C. Matthews

versity of Guelph has named one of these twelve prestigious entrance n honour of Burton C. Matthews to recognize his insight and leadership lishing the President's Entrance Scholarship program.

#### n and Frederick Metcalf

I Mrs. F.T. Metcalf of Guelph have endowed this award. After a ished career in cable TV, broadcasting and publishing, the late Mr. retired as President of Maclean Hunter Ltd. and Chairman of the Board ean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter td. and a member of the University of Guelph Heritage Board (1996).

#### d Farms Limited

the scholarships are endowed by the four shareholders of Rol-land Farms of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their . 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): Entering students of academic distinction who have made significant contributions to their schools and communities and demonstrate the potential to become leaders in society. Amount: 12 awards of \$26,000

#### 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 undergraduate or graduate student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application not required.

#### Donor(s). Mrs. Helen Quinn (O.A.C. '35)

Donor(5).	······ ••····· ••···
Qualification(s):	Entering semester one of an O.A.C. program to an undergraduate or
	graduate 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

98	IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree
The Jack and Lillian MacDonald Scholarship [E0379]	Devine Family Scholarship [E4542]
<ul> <li>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. Apply by letter to Student Financial Services by April 1.</li> <li><i>Donor(s):</i> Jack and Lillian MacDonald <i>Qualification(s):</i> In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University. 1 award of \$900</li> </ul>	On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. Scholarship offers will be made in May. This award is not
Amount: 1 award of \$900 University of Guelph Entrance Scholarships [E0291]	tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.
This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required. <i>Donor(s):</i> University of Guelph	Donor(s):       Mr. Peter J. Devine         Qualification(s):       Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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 \$25,000 (payable over 4 years of study)
Qualification(s): Students entering their first year of post-secondary studies for the first	Registrar's Entrance Scholarships [E0384]
Amount:time and have a minimum 85% admission average.Amount:Several awards ranging in value from \$2,000 to \$3,000	Established by the University of Guelph to support entering undergraduate students with
University of Guelph Faculty Association Scholarship [E0292]	identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from
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. Application not required. <i>Donor(s):</i> <b>University of Guelph Faculty Association</b> <i>Qualification(s):</i> Student entering an undergraduate degree program at the University of Guelph with the highest admission average who has been a resident in the County of Wellington during the previous twelve months.	Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.         Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.         Donor(s):       University of Guelph         Qualification(s):       Students entering a full-time undergraduate program on the basis of financial need and academic merit.         Amount:       500 awards of \$2,000
Amount: 1 award of \$2,250	Rol-Land Farms Scholarships [E4519]
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 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	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 (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 May 1. ACCESS AWARD         Donor(s):       Rol-Land Farms         Qualification(s):       Outstanding entering undergraduate degree students 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 Scholarships with Financial Need	University of Guelph Accessibility Scholarship [E3038]
Bill Klopp Memorial Award [E0150]	Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment
<ul> <li>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 May 1. 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).</li> <li>Donor(s): Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has femancial paged</li> </ul>	<ul> <li>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 May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).</li> <li>Donor(s): University of Guelph Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic excellence.</li> <li>Amount: 150 awards of \$9,000</li> </ul>
has financial need.Amount:1 award of \$500	

#### **Entrance Awards with Financial Need**

#### 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

Donor(s):	W. Roy Hindle and family
Qualification(s):	An entering O.A.C. degree student who has 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

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

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. Students who have applied to the University of Guelph will receive an application form.

#### 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 of \$1,000, Several awards of \$3,000

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Donor(s):	The Estate of Mrs. H. Stewart	
Qualification(s):	on(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	

#### **In-course Scholarships**

#### Bill Taylor Memorial Scholarship [I0280]

Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by April 1.

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

	99
Canadian Agri-	Marketing Association (Ontario) Scholarship [10541]
to the O.A.C. aw	Canadian Association of Agri-Marketing Association (Ontario). Apply ards Committee by April 1 with a summary of participation in the Ag and in agri-marketing initiatives as well as a letter of recommendation ember.
Donor(s): Qualification(s): Amount:	<b>Canadian Agri-Marketing Association (Ontario)</b> 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.
	1 award of \$1,500 r Award [10215]
	RU Board of Governors by April 30.
Donor(s):	Station Manager, CFRU 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. 2 awards of \$250
Class of 1970 Sc	holarship [I0424]
Established by th of the University campus. The app semester and the <i>Donor(s):</i>	The Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main propriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required. <b>Class 1970: 25th Reunion Gift</b> Outstanding student in any degree program who has attained at least
Amount:	an 80% average in two consecutive semesters resulting in placement on the Deans' Honours List. 1 award of \$1,400
Collins Barrow	Award [10040]
	ns Barrow, a national firm of Chartered Accountants. Awarded in the Application not required.
Donor(s):	Collins Barrow Chartered Accountants Student with the highest grade in course BUS*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. 1 award of \$500
David F. Boyes	Apiculture Scholarship [10031]
Established in me Application not r Donor(s):	emory of David Boyes a technician in the Apiculture Field Laboratory. required. The Apiculture Club
Qualification(s): Amount:	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. 1 award of \$150
Deans' Scholars	
Offered by the B	oard of Governors. Recipients will be selected by each of the College tees. Winners will be notified in the Fall semester. Application not
Donor(s): Qualification(s): Amount:	<b>Board of Governors</b> Students registered in any degree program. The primary academic criteria is placement on the Deans' Honours List for two consecutive semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M. program, in the previous Fall/Winter/Summer sequence. 150 awards of \$1,000
	ral's Medal [C0044]
	e Office of the Governor General of Canada. Application not required.
Donor(s): Qualification(s):	The Chancellery Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two
4	convocations, with the highest cumulative average.

1 Silver medal

100	IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree
International Undergraduate Scholarship [10577]	Lambda Foundation Scholarship in LBGT Studies [10591]
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 April 1, 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	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. Project: 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 complete project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support. <i>Donor(s):</i> Lambda Foundation and other donors <i>Qualification(s):</i> 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.
Joerg and Franzis Leiss Horticultural Scholarship [10565]	Amount: 1 award of \$1,000
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 not required. <i>Donor(s):</i> Mr. Joerg Leiss, O.A.C. '63	O.A.C. Students' Federation Medal [C0217]         Application not required.         Donor(s):       O.A.C.
Qualification(s): Students with a minimum cumulative averge 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.	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 Medal
	Oxford County Pork Producers Scholarship (Degree) [I0531]
John Eccles Scholarship [10093]           Nominations, accompanied by appropriate resumes, are to be submitted to Student Financial Services by April 1.           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.	<ul> <li>The Oxford County Pork Producers have made available this scholarship. Apply to O.A.C. Awards Committee by April 1 with a letter of up to two pages in length including information about leadership, community involvement and pork industry involvement. Donor(s): Oxford County Pork Producers</li> <li>Qualification(s): Any student who has completed a minimum of 5.0 credits in an O.A.C. degree program with a minimum cumulative average of 70%, pork production background or interest in pork production/industry, and demonstrated leadership and/or community involvement. Preference will be given to students from Oxford County or surrounding area.</li> <li>Amount: 1 award of \$1,000</li> </ul>
Amount: 1 award of \$600	Priscilla and Stanford Reid Trust Prize [10597]
Kenneth W. Hammond Award [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 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	<ul> <li>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.</li> <li>Donor(s): Priscilla and Stanford Reid Trust Fund</li> <li>Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>Amount: 1 award of \$500</li> </ul>
Kip Hunter Prize [I0139]	Stephanie Wilken Volunteer Award [10449]
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 the end of the 12th week of the Winter semester.         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	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
	The Jack and Lillian MacDonald Scholarship [E0379]
	<ul> <li>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. Apply by letter to Student Financial Services by April 1.</li> <li>Donor(s): Jack and Lillian MacDonald Qualification(s): In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University. Amount: 1 award of \$900</li> </ul>

Amount:

1 award of \$900

Amount:

crea achievement. 2 awards of \$1,000

IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree 101			
Thomas H. Peters Scholarship [10233]	City of Guelph 175th Anniversary Scholarship [10515]		
Application 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	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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7.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.		
Toronto District Beekeeper's Association Scholarship [I0285]	Donor(s): The Guelph Community Foundation		
A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application not required. <i>Donor(s):</i> <b>Mr. Jack Robinson</b> <i>Qualification(s):</i> The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.	Qualification(s): Students registered in any degree program with more than 5.0 credits and less than 10.5 credits of full-time study, a minimum cumulative 70% average, demonstrated leadership 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		
Amount: 1 award of \$500	Eleanor Morgan & Bill Archibald Scholarships [14540]		
United Steelworkers Local 4120 Scholarship [I0293]	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		
Apply to Student Financial Services, by January 31.         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. 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, provided that a minimum of 70% standing is obtained.         Amount:       1 award of \$1,000	completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. Awarded in the Winter semester.         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		
Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]	Erin Demers Memorial Scholarship [I0406]		
<ul> <li>Application will be made by nominations signed by 4 currently registered students forwarded to Student Financial Services by April 1. Presentations are made in the Fall semester.</li> <li>Donor(s): Mr. &amp; Mrs. J. Van Stralen &amp; family and Mr. &amp; Mrs. Hans Van Der Hoeven &amp; family</li> <li>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. 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.</li> <li>Amount: 2 awards of \$400</li> </ul>	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 April 1 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		
W.C. Winegard Medal [C0311]	activities.		
The W.C. Winegard Medal is the most prestigious graduating award of the University	Amount: 1 award of \$2,000		
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 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 Gold medal	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. Awarded in the Winter semester. ACCESS AWARD         Donor(s):       Euclid-Hitachi of Canada Ltd.		
W.N. Vaughan Medal [C0299]	<i>Qualification(s):</i> Students with a minimum cumulative average of 70% with		
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 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 Medal	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		
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. Awarded in the Winter semester. <i>Donor(s):</i> <b>3M Canada Company</b>			
Qualification(s): Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement			

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. Apply to Student Financial Services with a letter describing

on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial need. Preference will be given to members of the varsity football team. Examples of leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation on university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the winter semester. Donor(s): Mrs. George A. Gray Qualification(s): Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have	<ul> <li>demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and relationship to the U.G.R.A. member.</li> <li>Donor(s): University of Guelph Retirees Association (U.G.R.A.)</li> <li>Qualification(s): Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need.</li> <li>Amount: 1 award of \$1,000</li> <li>William &amp; Nona Heaslip Scholarship [I0589]</li> <li>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</li> </ul>
demonstrated leadership.       Amount:     2 awards of \$1,250	date.
Graham Family Incentive Scholarship [14506]	Donor(s): The William and Nona Heaslip Foundation
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. Awarded in the Winter semester. ACCESS AWARD Donor(s): Harvey Graham O.A.C. '39	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
<i>Qualification(s):</i> Students entering the fourth year of a four year degree program,	In-course Awards with Financial Need
maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary.	Bette Stephenson Accessibility Bursary [13054]
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	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
Guelph Varsity Athletic Accessibility Scholarship [10518]	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
<ul> <li>Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October</li> <li>7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.</li> <li>Donor(s): Alumni and friends of the University of Guelph Qualification(s): Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial</li> </ul>	<ul> <li>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.</li> <li>Donor(s): University of Guelph</li> <li>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.</li> <li>Amount: 3 awards to a maximum of \$1,500</li> <li>Brinson Partners Inc. Bursaries [13526]</li> </ul>
need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0 credits). Amount: 2 awards of \$1,250	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
R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]	for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD.
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. Awarded in the winter.	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
Donor(s): Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy	Burnbrae Farms Bursaries [13525]
<i>Qualification(s):</i> This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need. <i>Amount:</i> 1 award of \$1,000	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.) to Student Financial Services by October 7. Students will be considered for this award automatically
Tara Lynn Giuliani Memorial Award [I0375]	once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester.
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 to the Centre for Students with Disabilities by November 25. Donor(s): The Giuliani Family Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Amount: 1 award of \$500	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

This bursary is available to students who are related to a member of the U.G.R.A. as

child, grand-child, or great grand-child. Selection will be based on the greatest

#### University of Guelph Retiree Association Degree Scholarship [10569]

IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree	103
Class of '72: 25th Reunion Bursaries [I3512]	Gryphon Investment Council Bursaries [I3513]
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. Awarded in the Winter semester. 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	Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Awarded 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. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. 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): 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).
Class of O.A.C. '33 Bursaries [I3531]	Amount: 2 awards of \$1,500 Guelph Compassionate Health Bursary [I3061]
<ul> <li>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. Awarded in the Winter semester. 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</li> <li>Class of O.A.C. '36 Bursaries [I3501]</li> </ul>	This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.         Donor(s):       Student Health and Dental Plan Reserve         Qualification(s):       Students must be registered on the University of Guelph Student Health Plan. The student must require treatment for a condition not currently or completely covered by the Student Health Plan.
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.)	Amount: Several varies to a maximum \$1,000
<ul> <li>to Student Financial 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</li> <li>Donor(s): Class of 1936</li> <li>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).</li> <li>Amount: 2 awards of \$500</li> </ul>	Guelph Student Assistance ACCESS Bursaries [13556] These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Typically, awarded in the Winter semester. ACCESS AWARD.
Provided in memory of David R. Leach by his family, with the assistance of the Ontario	Donor(s): Central Student Association
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 by October 7. Awarded in the Winter semester. ACCESS AWARD	Qualification(s): 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).         Amount:       Several awards of varying amounts up to \$1,000
Donor(s): Mrs Deborah Leach-Sartor	Guelph Student Assistance Program [13056]
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 \$1,000	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.
Elizabeth Burton Bursaries [13503]	Typically, awarded in the Winter semester. Donor(s): Undergraduate Students
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	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
by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	Gwen Karr Memorial Bursary [I3010]
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).	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. Awarded in the Winter semester.
Amount: Several awards of up to \$2000	Donor(s):       Mr. T.K.C. Karr, O.A.C. '32         Qualification(s):       O.A.C. students with demonstrated financial need         Amount:       Several varies

#### O A C '38 L L 134 .11 D 1

Helen Mahon Memorial Bursary [I3063]	O.A.C. '38 Lloyd Minshall Bursaries [13529]
<ul> <li>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 indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter.</li> <li>Donor(s): Family and Friends of Helen Mahon</li> <li>Qualification(s): Students registered in any program who come from a family where one parent is deceased.</li> <li>Amount: 1 award of \$500</li> </ul>	<ul> <li>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 classmater 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. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '38 Alumni</li> <li>Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8 and O.A.C. graduate students are eligible to</li> </ul>
	apply. Additionally, students must meet the government-mandated
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	terms for receipt of an OSOTF award (see General Statements on Awards). Amount: 7 awards of \$1,000
for this award automatically once a N.A.F has been submitted by the deadline date.	O.A.C. '55 Access Bursaries [I3517]
Awarded in the Winter semester. 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	<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Donor(s): O.A.C. Class of '55</li> <li>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</li> </ul>
International Emergency Medical Aid Assistance [I3059]	the government-mandated terms for receipt of an OSOTF award (see
The University of Guelph provides support to International undergraduate students that	General Statement on Awards). Amount: Several awards of \$500
are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not	Amount.         Several awards of \$500           O.A.C. '57 Bursaries [I3518]
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. <i>Donor(s):</i> University of Guelph	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. Awarded in the Winter semester. ACCESS AWARD
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.	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 require of on OSOTE students.
Amount: Several awards of varying amounts	terms for receipt of an OSOTF award (see General Statements on Awards).
International Student Bursaries [I3009]	Amount: 5 awards of \$1,000
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor.	O.A.C. Alumni Foundation Access Bursaries [I3533]
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	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 Awarded in the Winter semester. ACCESS AWARD
Irvine and Grace Black Memorial Bursary [I3051]	Donor(s): O.A.C. Alumni Foundation
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	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:       4 awards of \$500
Services with a completed Financial Need Assessment Form (N.A.F.) and a letter	Ontario Co-operatives R.P. Forshaw Bursary [I3013]
outlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded in the Winter semester.         Donor(s):       Family and friends of Irvine and Grace B.L.A.ck         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	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. Awarded in the Winter semester.         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.
Mary I. Whitelock Bursaries [I3524]	Amount: 1 award of \$400
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. Awarded in the Winter semester. 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).	Ontario Grape Growers Bursary [13033]         Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester.         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

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Robert Auger Humanitarian Bursary [13058]	University of Guelph Child Care Bursaries [13053]
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.	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. Awarded in the Winter semester.
grocery, and textbook voluciers.         Donor(s):       Office of Registrarial Services         Qualification(s):       Students who require assistance through this fund should apply in confidence to the Assistant Registrar, Financial Aid, Student Financial Services.         Amount:       Several awards of \$500	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.
Scotiabank Bursaries [13532]	Amount: Several awards of up to \$2,000
Established by Scotiabank, with the assistance of the Ontario government's OSOTF	University of Guelph International Bursary [13048]
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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> Scotiabank <i>Qualification(s):</i> 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).	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: 2 awards of \$1,500	Amount: Several varies
T.K. Warley Bursaries [13510]	University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]
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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> <b>O.A.C. Alumni Association</b>	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. Awarded in the Winter semester.         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 and a minimum of 2.0 course credits completed.         Amount:       Several awardsranging in value from \$100 to \$3,000
<i>Qualification(s):</i> Students with demonstrated financial need who are in semester 5 to 8	
<ul> <li>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).</li> <li>Amount: 3 awards of \$500</li> </ul>	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. Awarded in the Winter semester. Donor(s): University of Guelph Qualification(s): Undergraduate students registered for full-time studies (as defined by
University of Guelph Access Bursaries [I3522] Provided by alumni and friends of the University, with the assistance of the Ontario	OSAP) in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed. <i>Amount:</i> Several awards to a maximum of \$800
government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph)	University Police Bursaries [I3019]
diploma 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. Awarded in the Winter semester. ACCESS AWARD. Variable amounts from \$500 to \$2,000	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):       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 for the student of \$500.       Secure length of \$500.	Donor(s):     The University Police       Qualification(s):     Full-time undergraduate and graduate students who have financial need.       Amount:     Several of various amounts
Amount:     Several awards of \$500, Several awards of \$2,000	University Student Assistance Program [I3057]
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. Awarded in the Winter semester. 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	<ul> <li>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. Typically, awarded in the Winter semester.</li> <li>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).</li> </ul>
receipt of an OSOTF award (see General Statements on Awards).Amount:2 awards of \$1,000	Amount: Several awards of various amounts to a maximum of \$1,000

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

#### 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, a travel budget, and a completed Financial Need Assessment Form (N.A.F.) 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 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 by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year.

#### Donor(s): Aeroplan

Qualification(s):	Full-time students with a minimum cumulative average of 70%,
	completion of a minimum of 5.0 credits and confirmed participation
	in University of Guelph travel activities related to their academic
	program. Preference will be given to students participating in the
	semester abroad or academic exchanges.
Amount:	1 plane ticket per each semster

#### 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 1 for Fall 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 in semester 3 and above. Students must have at least a 70% average and a primary area of interest 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 Financial Need Assessment Form (N.A.F.) 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 Bursary [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 by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1. 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, Masters students in the first year of study, and Doctoral students
	in the first three years of study are eligible to be considered. 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:	3 Awards with varying amounts

#### 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 April 1 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 \$1,000

#### H.C. Mason Travel Scholarships [T0598]

In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students has been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by April 1, 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 April 1. 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:	3 awards of \$1,800

#### 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 April 1 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

#### 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 April 15.

## Donor(s): O.A.C. Awards Committee

Qualification(s	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:	1 award of \$750

#### 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 April 1 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

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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 by letter with a completed Travel Award Application and a Financial Need Assessment Form (N.A.F.) for Travel awards to Student Financial Services by October 1, February 1 or June 1. 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	3 awards of \$600

#### 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 April 1, 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

#### 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 description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. 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 April 15, and include a description of the study abroad program. Travel grant (or grants) totalling \$1,500.

#### 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 \$1,500

#### 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 undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.

#### Donor(s): University of Guelph

Donor(s).	
Qualification(s):	Registered undergraduate and graduate students that have completed
	5.0 credits with demonstrated financial need who have a minimum
	70% cumulative average in the last two semesters of full-time
	equivalent study are eligible to apply. The value of the award will
	depend on the assessed financial need. The scholarship can cover
	additional costs of travelling outside of Canada including: airfare,
	administrative costs, and differential costs of accommodation.
Amount:	Several up to \$1,500

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**

#### 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 not required. Two awards of \$1,250 paid in two installments of \$625.

Donor(s): William B. Lowe and Amos Edgar Lowe	
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 Qualification(s):
 Student entering any of the undergraduate degree programs of the Ontario Agricultural College.

 Amount:
 2 awards of \$1,250

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#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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

201101 (0).	0
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:	4 awards of \$7,000

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

#### Donor(s): Board of Governors

 Qualification(s):
 Outstanding students entering semester 1

 Amount:
 25 awards of \$8,000

# 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

Amount:

1 award of \$300

	IX. Scholarships and Other Awards, Bachelor of Commerce
Dr. Jack Britne	ey Scholarship [E0034]
faculty member Extension Educa offered at any of	emory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and former in the former School of Food Agriculture and Resource Economics and ation to a graduate student from any of the O.A.C. Diploma programs f the University of Guelph campuses that enters a degree program at the uelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the
Donor(s): Qualification(s)	Friends and Associates : Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph. Preference will be given to Graduates of the Diploma in Agriculture program.
Amount:	1 award of \$1,200
	trance Scholarship [E0532]
	provided by Elite Swine Inc. to assist students entering an O.A.C. Program. High schools will forward nominations to the O.A.C. Awards bettember 15.
Donor(s):	Elite Swine Inc.
Qualification(s). Amount:	: High school graduates who have applied to O.A.C. undergraduate programs, based on admission average, contributions to their schools and communities and on their potential to become leaders in society. Preference will be given to students with a strong interest in animal science, particularly swine production. 5 awards of \$1,000
	es Scholarship [E0140]
Application not	
Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s). Amount:	: Student from Oxford County with the highest admission average. 1 award of \$1,400
International S	tudent Entrance Scholarships [E0408]
must submit all considered for a Application not <i>Donor(s):</i>	<ul> <li>Indergraduate degree program at the University of Guelph. Applicants relevant documentation for admission consideration by March 1 to be a scholarship. These scholarships are awarded on a competitive basis. required.</li> <li>University of Guelph</li> <li>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.</li> </ul>
Amount:	Several awards ranging in value from \$500 - \$6,000
J.D. MacLachla	an Scholarship [E0170]
Provided by the	family of J.D. MacLachlan. Application not required.
Donor(s): Qualification(s) Amount:	The J.D. MacLachlan Trust Student entering the University with the highest admission average. 1 award of \$1,500
James MacMill	an Memorial Scholarship [10494]
Toronto. Apply	nemory of James MacMillan, his great uncle, by Austin Conway of with a completed Financial Need Assessment Form (N.A.F.) to Student es by October 7.
Donor(s): Qualification(s)	Austin Conway : Kemptville College graduate with high academic standing (a minimum 75% cumulative average) who registers in the O.A.C. degree program in Agriculture or in Agriculture and Business. Financial need may also be considered.
Amount:	1 award of \$2,500
	J.C. Beattie Memorial Scholarship [E0026]
Beattie and Jean	ssie L. Beattie has established a scholarship in memory of Lillie Ann nie Cockburn Beattie. The scholarship is awarded alternately between ld-numbered years) and B.Comm. (even-numbered years) programs. required.
Donor(s):	The estate of Jessie L. Beattie
	Student entering full-time studies in the B.A.Sc. program or the School of Hospitality and Tourism Management, Real Estate and Housing or Marketing Management majors in the B.Comm. program who has achieved the highest mark in English during the final year of high school. In the event of a tie, preference will be given to students from rural areas.
Amount	1 award of \$200

#### Lincoln Alexander Chancellor's Scholarship [E0493]

These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

#### Donor(s): **Many Donors**

Qualification(s):	Entering students of academic distinction who are Aboriginal, persons
	with a disability or members of a racial minority, and who have made
	significant contributions to their schools and communities and
	demonstrated the potential to become leaders in society. Financial need
	may be taken into consideration.
Amount:	2 awards of \$26,000

#### Mac-FACS-FRAN Alumni Association Centennial Scholarship [E0162]

Apply by April 1 with a summary letter outlining volunteer experience and 2 lett recommendation to the Department of Marketing and Consumer Studies. The rec will be chosen based on the equal weighting of high academic achievement and lead in community-based volunteer activities.

#### Donor(s): Mac-FACS-FRAN Alumni Association

Qualification(s):	Full-time students entering the BComm. program in a major offered
	by the Department of Marketing and Consumer Studies with a
	minimum cumulative average of 80%.
Amount:	1 award of \$1,000

Mac-FACS-FRAN Alumni Entrance Scholarship - Marketing and Consumer S [E0521]

Selection will be based on the highest admission average. This award is not tenable the President's Scholarship, the Lincoln Alexander Chancellor's Scholarship or the D Family Scholarship. Application not required.

#### Mac-FACS-FRAN Alumni Association Donor(s):

9	ualification(s): Students entering a BComm. program offered by the Department	of
	Marketing and Consumer Studies.	
	nount: 1 award of \$1,000	

#### McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholars awarded to students entering any undergraduate degree program and are based of highest admission average. Application not required.

Donor(s): Wilhelmina McArthur-Humphries Trust Fund

Qualification(s):	Students entering semester 1 with a minimum 75% admission average.
	Preference will be given to those students from Lanark and Wellington
	Counties. 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.
Amount:	12 awards of \$1,000

#### P.A.J. Clarke Family Scholarship [E0381]

Paul and Aileen Clarke and their family established the endowment for this ent scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area fa Apply by letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years). Paul and Ailoon Clan

Donor(s):	Paul and Alleen Clarke
Qualification(s):	Students with a minimum 80% average with a record of leadership
	and community participation are eligible. Preference will be given to
	candidates from Blenheim district or Kent County and who were raised,
	or have worked, on a farm. Students may be contacted to provide
	special need circumstances if there is a short list of equal candidates.
Amount:	1 award of \$12,000

#### President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

ersons       Dick Brown         e made       Two of the scholarships, endowed by Dr. Patrick Lett a whose leadership qualities best reflect those demonstra University Athletics from 1968 to 1988.         al need       Cecil H. Franklin and Ingrid Franklin         In honour of Cecil Franklin, former Chair of the Boo Honorary Fellow of the University, the University of Gu these twelve prestigious entrance awards to recognize his and volunteer support to the President's Entrance Schola Charles S. Humphrey         In memory of Charles S. Humphrey, a former Preside Company Canada Ltd. and long-time friend, the Univer these twelve prestigious entrance awards to recognize his through his estate to the President's Entrance Scholarship	ted by Dick Brown in ard of Governors and telph has named one of financial contributions rship program.
<ul> <li>whose leadership qualities best reflect those demonstration university Athletics from 1968 to 1988.</li> <li>Cecil H. Franklin and Ingrid Franklin         <ul> <li>In honour of Cecil Franklin, former Chair of the Book Honorary Fellow of the University, the University of Guthese twelve prestigious entrance awards to recognize his and volunteer support to the President's Entrance Schola</li> <li>Charles S. Humphrey</li> <li>In memory of Charles S. Humphrey, a former Preside Company Canada Ltd. and long-time friend, the Univertify through his estate to the President's Entrance Scholarship</li> </ul> </li> </ul>	ted by Dick Brown in ard of Governors and telph has named one of financial contributions rship program.
Cecil H. Franklin and Ingrid Franklin         In honour of Cecil Franklin, former Chair of the Boo         Honorary Fellow of the University, the University of Gu         these twelve prestigious entrance awards to recognize his         and volunteer support to the President's Entrance Schola         Charles S. Humphrey         In memory of Charles S. Humphrey, a former Presid         Company Canada Ltd. and long-time friend, the Univer         these twelve prestigious entrance awards to recognize his         through his estate to the President's Entrance Scholarship	elph has named one of financial contributions rship program.
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In memory of Charles S. Humphrey, a former Presid Company Canada Ltd. and long-time friend, the Univer these twelve prestigious entrance awards to recognize his through his estate to the President's Entrance Scholarship	
tership Company Canada Ltd. and long-time friend, the Univer these twelve prestigious entrance awards to recognize his through his estate to the President's Entrance Scholarship	ent of Hart Chemical
	rsity has named one of s financial contribution
ffered Jack R. Longstaffe	
The University of Guelph has named one of these twelv awards in memory of Jack R. Longstaffe to recognize his through his estate to the President's Entrance Scholarship <b>Burton C. Matthews</b>	s financial contribution
N/ H*	
The University of Guelph has named one of these twelv awards in honour of Burton C. Matthews to recognize his in establishing the President's Entrance Scholarship prog	s insight and leadership
le with Kathleen and Frederick Metcalf	,1aiii.
Devine	1.4. 1.40
Mr. and Mrs. F.T. Metcalf of Guelph have endowed distinguished career in cable TV, broadcasting and pu Metcalf retired as President of Maclean Hunter Ltd. and of Maclean Hunter Cable Ltd. He was Honorary Chairm Cable Ltd. and a member of the University of Guelph He	ublishing, the late Mr. Chairman of the Board nan of Maclean Hunter
Rol-land Farms Limited	
Two of the scholarships are endowed by the four sharehol Limited of Blenheim, Ontario, Hank, Peter, Arthur and Er families. The Vander Pol families are generous suppo University projects and programs.	ric Vander Pol and their
on the University projects and programs.	
The University of Guelph has named one of these twelv awards in honour of Lillian Stewart Usher a friend of the U her financial contribution through her estate to the	University to recognize
lington Scholarship program.	
from <i>Qualification(s)</i> : Entering students of academic distinction who ha	-
n one contributions to their schools and communities ar	nd demonstrate the
e other potential to become leaders in society.	
Amount: 12 awards of \$26,000	
Quinn Memorial Scholarship [E0578]	
Established in memory of Ronald J. Quinn (O.A.C. '35) to a	an entering O.A.C.
international full-time or exchange undergraduate or graduate stude based on academic performance, letters of reference and an assessm	U

application package. Application not required.

#### Donor(s): Mrs. Helen Quinn (O.A.C. '35)

Qualification(s):	Entering semester one of an O.A.C. program to an undergraduate or
	graduate 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

110	IX. Scholarships and Other Awards, Bachelor of Commerce
The Jack and Lillian MacDonald Scholarship [E0379]	Devine Family Scholarship [E4542]
<ul> <li>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. Apply by letter to Student Financial Services by April 1.</li> <li>Donor(s): Jack and Lillian MacDonald Qualification(s): In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University. Amount: 1 award of \$900</li> </ul>	On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's
University of Guelph Entrance Scholarships [E0291]	Scholarship, but can be held with all other entrance awards. ACCESS AWARD.
This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required. <i>Donor(s):</i> University of Guelph <i>Qualification(s):</i> Students entering their first year of post-secondary studies for the first	Donor(s):       Mr. Peter J. Devine         Qualification(s):       Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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 \$25,000 (payable over 4 years of study)         Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Amount:time and have a minimum 85% admission average.Amount:Several awards ranging in value from \$2,000 to \$3,000	Established in honour of Kenneth Osborne Hammill, a long time friend of the University
University of Guelph Faculty Association Scholarship [E0292]	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
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. Application not required. <i>Donor(s):</i> University of Guelph Faculty Association	President's Scholarships. President's Scholarship nominees should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. ACCESS AWARD.
Qualification(s):       Student entering an undergraduate degree program at the University of Guelph with the highest admission average who has been a resident in the County of Wellington during the previous twelve months.         Amount:       1 award of \$2,250	Donor(s):       The Blount Foundation, Inc.         Qualification(s):       Students from the Province of Ontario, with demonstrated financial need, 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, continued
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 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.	<ul> <li>to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> <li><i>Amount:</i> 1 award of \$9,600, payable in 8 payments of \$1,200</li> </ul>
Amount: 1 award of \$1,000	Registrar's Entrance Scholarships [E0384]
Entrance Scholarships with Financial Need         Bill Klopp Memorial Award [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 May 1. 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).         Donor(s):       Ross and Mary Lou Klopp	Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards. Donor(s): University of Guelph Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit. Amount: 500 awards of \$2,000
Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who	

has financial need. 1 award of \$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 (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 May 1. ACCESS AWARD

#### Donor(s): Rol-Land Farms

Qualification(s).	: Outstanding entering undergraduate degree students 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.Comm. students, in a major offered by the School of Hospitality and Tourism Management. Selection is by the University Bursary Committee. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their 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 May 1. 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 respectively and B.Comm. students, in a major
	offered by the School of Hospitality and Tourism Management students
	with a minimum average of 80% in the last year of secondary school
	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

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### Donor(s): University of Guelph

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

#### **Entrance Awards with Financial Need**

#### 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

#### Donor(s): W. Roy Hindle and family

Qu	<i>Qualification(s):</i> An entering O.A.C. degree student who has demonstrated financial		
		need. Additionally, students must meet the government-mandated	
		terms for receipt of an OSOTF award (see General Statement on	
		Awards).	
Am	iount:	1 award of \$6,000	

#### 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 letter to Student Financial Services and by completing the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the online application and letter is May 1.ACCESS AWARD

Donor(s):	The family and friends of R. Gordon Bennett, O.A.C. '43	
Qualification(s):	O.A.C. student with demonstrated financial need entering the	
	Diploma, B.Sc. Agr.), or B.Comm., Agricultural Business major,	
	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 (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 May 1.

#### 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. Students who have applied to the University of Guelph will receive an application form.

#### 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 of \$1,000, Several awards of \$3,000

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

#### 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

#### **In-course Scholarships**

Beth Park Memorial Scholarshi	p [10420]

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 April 1 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:	3 awards of \$1,000

	[emorial Scholarship [10533]		i-Marketing Association (Ontario) Scholarship [10541]
	emory of Bill Brohman, a founding partner of the firm who served on		e Canadian Association of Agri-Marketing Association (Ontario). App
the University of	Guelph Board of Governors from 1986-1992. The award winner will	to the O.A.C. a	wards Committee by April 1 with a summary of participation in the
	basis of academic achievement, involvement in extracurricular activities,	Ec & Biz Socie	ty and in agri-marketing initiatives as well as a letter of recommendati
	ted interest in a career in accountancy. Apply to the Dean, College of	from a faculty r	member.
	d Economics by April 1st, including a statement outlining your	Donor(s):	Canadian Agri-Marketing Association (Ontario)
extracurricular in	volvement and interest in pursuing a career in accountancy.	Qualification(s	): Student who has competed a minimum of 10.0 credits with a minimu
Donor(s):	Robinson Lott & Brohman LLP		cumulative average of 70% who are members of O.A.C. and the A
Qualification(s):	The award will be presented to a student enrolled in any of the majors		Ec & Biz Society. Selection will be based on a combination of academ
	of the B.Comm. program who have completed 10.0 to 15.0 course		achievement and a demonstrated interest in agri-marketing.
	credits with a minimum 75% average.	Amount:	1 award of \$1,500
Amount:	1 award of \$1,500	Canadian Asso	ociation of Agri-Retailers Scholarship [I0444]
-	norial Scholarship [I0280]		e Canadian Association of Agri-Retailers. Apply to Student Finance
	nclude a supporting letter from a coach or intramural supervisor. Apply	Services by Ap	ril 1.
to Student Finance	cial Services by April 1.	Donor(s):	Canadian Association of Agri-Retailers
Donor(s):	AMF Canada Ltd.	Qualification(s	): Student who has competed semesters 4, 5, or 6 in B.Sc.(Agr.) or
Qualification(s):	Full-time student who has completed a minimum of 7.5 credits, but		B.Comm., Agricultural Business major, with a minimum 70% avera
	no more than 17.5 credits in the Winter term who has a cumulative		in the previous 2 semesters of full-time equivalent study, participat
	80% average or who is in the top 10% of his/her program. The recipient		in extracurricular activities, and has an interest in the input supply
	must have demonstrated responsibility and leadership qualities through		industry in agriculture.
	participation in intramural or intercollegiate athletics.	Amount:	1 award of \$1,000
Amount:	1 award of \$900	<b>Certified Gene</b>	eral Accountants Award for Excellence Prize [C0025]
Blackburn Scho	larship [I0404]		e graduating student with the highest average in the three accounti
	on of the 125th Anniversary of the Ontario Agricultural College, Dr.	courses listed.	Application not required.
	retired faculty member of the former Rural Extension Studies program	Donor(s):	Certified General Accountants Association of Ontario
	tor of the Associate Diploma Program has established this scholarship.	Qualification(s	): Graduating student who has a minimum cumulative average of 77
	titing athletic contributions, to the O.A.C. Awards Committee by April		in Financial Accounting BUS*2220; Management Accounting
1.			BUS*2230; and Intermediate Accounting BUS*3330.
Donor(s):	D.J. Blackburn	Amount:	1 award of \$150, plus 1 year tuition and course fee towards the CC
Qualification(s):	O.A.C. degree or diploma student who has participated in		program. (approximate value of \$2,000)
	intercollegiate athletics and maintained a minimum cumulative average	CFRU Volunte	eer Award [I0215]
	of 70% while registered at Guelph. Athletic excellence and leadership		FRU Board of Governors by April 30.
	will be used to determine the recipient.		
Amount:	1 award of \$500	Donor(s):	Station Manager, CFRU ): Applicants must be registered or graduating from the University of
÷	nt Systems Canada Scholarship [10595]	Quanfication(3)	Guelph and have volunteered at CFRU for at least one year. The
	udents that are interested in quality management. The recipient will be		recipients will be selected on the basis of academic performance ar
	asis of high academic standing in Quality Management MCS*3010 and		volunteer work at CFRU.
	erests in quality through research or employment in the field of quality	Amount:	2 awards of \$250
0 1	pply to the Department of Marketing and Consumer Studies Awards	Charles McGo	wan Memorial Prize [C0187]
the interests in qu	pril 1 with a letter of reference and a 500-word statement documenting		nemory of the late Lieutenant Charles McGowan. Application not require
•			· · · · ·
Donor(s):	BSI Management Systems Canada Inc.	Donor(s):	Charles McGowan Memorial Fund
Qualification(s):	Students enrolled in a program offered by the Department of Marketing		): Outstanding graduating student in an O.A.C. degree program.
Amount:	and Consumer Studies and have taken Quality Management MCS*3010 1 award of \$1,000	Amount:	1 award of \$300
C.W. Riley Prize			A.C. Leadership Awards [C0063]
	Prize was established by a number of his friends and associates.		Year '51 O.A.C., on the occasion of its 45th anniversary. At the discret
Application not r		not required.	wards Committee students may be selected before graduation. Applicat
	*		Year '51 O.A.C.
Donor(s):	Friends and associates of C.W. Riley	Donor(s):	
Qualification(s):	Student who, on graduation from Food Agriculture and Resource	Qualification(s)	): Students graduating from the degree program in a major in an O.A
	Economics, Agricultural Business or Resource Economics and Rural		department who have a 70% standing in the final year of study and
A	Development major, attains the highest proficiency in the area subjects.		who have demonstrated leadership in the College or University
Amount:	1 award of \$375	Amount:	extracurricular activities. 5 awards of \$2,000
	ins and Associates Scholarship [I0568]		A.C. Centennial Scholarship [10067]
	ist have participated in extracurricular activities at the University of		
	a strong interest in the foodservice industry. Apply by January 31 to s Committee using the standard HTM scholarship application form and		nt Financial Services by April 1.
	nt of no more than 500 words describing your interest in the foodservice	Donor(s):	Class of O.A.C. '67
industry.	at or no more than 500 words describing your interest in the foodservice	Qualification(s	): Student majoring in an O.A.C. department who through activity in
-	Commune Hambins (HAFA 177)		branches of college life as well as scholastic achievement has mad
Donor(s):	Cameron Hawkins (HAFA '77)		an outstanding contribution to the University.
0	Students in a major of the B.Comm. program offered by the School of	Amount:	1 award of \$1,000
Qualification(s):	Hospitality and Tourism Management who have completed at least		
Qualification(s):			
Qualification(s):	11.0 credits but no more than 14.5 with a minimum 70% average in		
Qualification(s): Amount:			

Class of 1970 Sc	holarship [I0424]	Dorothy Shantz	z Memorial Scholarship - Fourth Year [10256]
	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main		the Canadian Hospitality Foundation. Apply to the HTM Awards nuary 31 using the standard HTM scholarship application form. Awarded
	propriate College Award Committee selects the candidate each Fall	in the Winter se	mester.
semester and the	candidate is announced each October. Application not required.	Donor(s):	Canadian Hospitality Foundation
Donor(s):	Class 1970: 25th Reunion Gift	Qualification(s)	: Student registered in a major offered by the School of Hospitality and
Qualification(s):	Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement		Tourism Management who has completed at least 15.00 credits (normally in the eighth semester) with a minimum 70% cumulative
	on the Deans' Honours List.		average and who shows enthusiasm for the foodservice industry. The
Amount:	1 award of \$1,400		recipient must have demonstrated leadership ability by holding an
Clayton and Do	rothy Switzer Scholarships [10276]		executive position on a student organization of the School of Hospitality
	to Student Financial Services.	Amount:	and Tourism Management. 1 award of \$1,000, 1 Engraved Plaque
Donor(s):	Clayton and Dorothy Switzer		
	One to a student who has completed semester 2 of the Diploma in		z Memorial Scholarship - Third Year [I0496]
	Agriculture program and one to a student who has completed semester		the Canadian Hospitality Foundation. Apply to the HTM Awards anuary 31 using the standard HTM scholarship application form. Awarded
	4 of a degree program in O.A.C. Recipients will have a minimum of 70% standing and have demonstrated outstanding leadership ability	in the Winter se	
	in O.A.C. student organizations, class executives and College Royal.	Donor(s):	Canadian Hospitality Foundation
Amount:	1 award of \$2,000		: Student registered in a major offered by the School of Hospitality and
Collins Barrow	Award [10040]		Tourism Management who has completed at least 11.00 credits but no
	ns Barrow, a national firm of Chartered Accountants. Awarded in the		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
	Application not required.		shows enthusiasm for the foodservice industry. The recipient must
Donor(s):	Collins Barrow Chartered Accountants		have demonstrated leadership ability by holding an executive position
Qualification(s):	Student with the highest grade in course BUS*3330, Intermediate		on a student organization of the School of Hospitality and Tourism
	Accounting, in the Fall semester. In the event of a tie, the scholarship	A	Management.
	will be given to the student with the highest cumulative average in their program.	Amount:	1 award of \$1,000, 1 Engraved plaque
Amount:	1 award of \$500	-	an Scholarship [I0447]
David F. Boyes	Apiculture Scholarship [I0031]		he Canadian Standards Association as a gift on the occasion of Dr. Kean's resident and CEO of the Canadian Standards Association (now CSA
	emory of David Boyes a technician in the Apiculture Field Laboratory.		or. Kean received an honorary Doctor of Laws degree from the University
Application not r		· · · · ·	97. Apply with a letter highlighting interest in management, consumer
Donor(s):	The Apiculture Club		environmental considerations of Canadian business as well as leadership
Qualification(s):	Student registered in the Fall semester who achieves high academic		completed in-course award application form by April 1 to the Chair of of Marketing & Consumer Studies Awards Committee.
	standing in Introductory Apiculture (ENVB*2210) in the previous year, demonstrates an interest in apiculture and who has participated	Donor(s):	CSA International
	in extracurricular activities.		Student with a minimum of 10.0 credits in the Marketing Management
Amount:	1 award of \$150	~ , ()	major of the B.Comm. program. Preference will be given to a co-op
Dawn Morris M	[emorial Award [C0361]		student.
Offered in memo	ry of Dawn Morris, who spent 35 years in farm show business and was	Amount:	1 award of \$500
former Manager	of the Canadian International Farm Equipment Show in Toronto.		olarship in Food Service Administration [10364]
	ouraged to submit information on extracurricular activities to Student		Smith and Sons Ltd., a multi-faceted processor of foods. Apply to HTM
Financial Service			ttee by January 31 using the standard HTM scholarship application form sume and statement of interest in the foodservice industry.
Donor(s): Qualification(s):	The Family of Dawn Morris Student who is graduating from the Agricultural Business major of the	Donor(s):	E.D. Smith & Sons Ltd.
Qualification(3).	B.Comm. degree or the Food Agriculture and Resource Economics		Student who has demonstrated an interest in the food service industry.
	major in the B.Sc.(Agr.) degree with a minimum 'B+' average. Selection		has maintained a minimum of 'B' average and has completed 7.00 to
	will be on the basis of relevant course work in agricultural marketing,		10.50 credits of a major offered by the School of Hospitality and
Amount:	extracurricular participation and employment activities. 1 award of \$1,500		Tourism Management. The scholarship will be awarded on the basis of interest in foodservice operations and academic standing. Interest
Deans' Scholars			in the foodservice industry can be demonstrated by work experience
			or active membership in the Canadian Association of Foodservice
	oard of Governors. Recipients will be selected by each of the College tees. Winners will be notified in the Fall semester. Application not		Professionals (CAFP, formerly CFSEA).
required.	in the ran sense of region of the ran sense of reppication not	Amount:	1 award of \$1,000
Donor(s):	Board of Governors		emorial Scholarship [10047]
	Students registered in any degree program. The primary academic		ector for International Development Studies with an unofficial summary,
	criteria is placement on the Deans' Honours List for two consecutive		a cover letter outlining how past experiences demonstrate a commitment by January 30th. Preference will be given to a student registered in a
	semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.	-	am at the University of Guelph.
Amount:	program, in the previous Fall/Winter/Summer sequence. 150 awards of \$1,000	Donor(s):	The Friends of Ellen Nilsen
			Registered academically outstanding female students from developing
			countries who have demonstrated a commitment to social change.
		Amount:	1 award of \$1,500

Frank Hughes Memorial Scholarship [10552]	Governor General's Medal [C0044]
Pannell Kerr Forster (PKF) Consulting Inc. provides this award to a student in the	Established by the Office of the Governor General of Canada. Application not required.
B.Comm. program in any major offered by the School of Hospitality and Tourism Management. The winner will be chosen on the basis of three criteria; 1) industry work	Donor(s): The Chancellery
experience; 2) academic achievement; and 3) extracurricular involvement. Apply to the	<i>Qualification(s):</i> Restricted to those undergraduate students in any degree program who
HTM Awards Committee by January 31st using the standard HTM scholarship application	are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.
form. Include a resume outlining relevant industry work experience and a detailed list	Amount: 1 Silver medal
of extracurricular involvement.	Greater Toronto Hotel Association Scholarship [10573]
Donor(s): Pannell Kerr Forster (PKF) Consulting Inc.	Each January, the HTM Awards Committee will invite the students with the top five
<i>Qualification(s):</i> Full-time student B.Comm. program in any major offered by the School	grades in the previous winter semester's offering of HTM*2100 to submit a statement
of Hospitality and Tourism Management who has completed between 11.0 and 14.5 course credits.	of up to 500 words explaining their interest in the lodging industry. The recipient will
Amount: 1 award of \$1,000	be selected based on academic performance and the statement of interest.
G.H. Mann Food Service Scholarship [I0174]	Donor(s): Greater Toronto Hotel Association
	Qualification(s): Students in a major of the B.Comm. degree program offered by the
Preference will be given to a student who has contributed to the on going success of the Hospitality Services Department of the University. Apply to the HTM Awards Committee	School of Hospitality and Tourism Management and have completed
by January 31 by using the standard HTM scholarship application form and include a	HTM*2100 (Lodging Operations).
statement of up to 500 words explaining interest in the foodservice industry.	Amount: 1 award of \$1,000
Donor(s): G.H. Mann Memorial Fund and M. Mann of Guelph	HAFA HTM Alumni Association Recognition of Achievement Prize [C0351]
<i>Qualification(s):</i> Student who is registered in semester 8 of the B.Comm. program, in	Established by the School's Alumni Association in recognition of student involvement
a major offered by the School of Hospitality and Tourism Management,	in the life of the School of Hospitality and Tourism Management and/or the University.
and has a minimum cumulative average of 70%. In addition, the	Selection will be based on extracurricular activities. Apply by January 31 using the standard HTM scholarship application form with a resume and detailed list of
recipient will have an interest in, and have participated in, activities	extracurricular activities to the HTM Awards Committee. The recipient will receive this
Amount: 1 award of \$300	award after graduation.
George D. Bedell Prize [C0352]	Donor(s): The HAFA HTM Alumni Association
	<i>Qualification(s):</i> Awarded to a graduating student in a major offered by the School of
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	Hospitality and Tourism Management who has at least a 70% average.
Management. The HTM Awards Committee will conduct an election with the graduating	Amount: 1 award of \$200 and a framed certificate
class and select the recipient during the winter semester. Application not required.	HAFA HTM Alumni Association Scholarship [10501]
Donor(s): The HTM Students' Council	Established by the School's Alumni Association in recognition of student involvement
<i>Qualification(s):</i> Student graduating from the B.Comm. program, in a major offered by	in the life of School of Hospitality and Tourism Management and/or the University.
the School of Hospitality and Tourism Management who, in the minds	Apply by January 31 using the standard HTM scholarship application form to the HTM
of his or her fellow students, has demonstrated the outstanding	Awards Committee.
leadership, versatility of interests and involvement in community affairs, both within and outside the School, that exemplifies the sense	Donor(s):         The HTM Alumni Association           Qualification(s):         Awarded to students registered in the B.Comm. program, in a major
of professionalism to which the fourth year students have dedicated	offered by the School of Hospitality and Tourism Management. One
themselves.	scholarship will be awarded to a student who has completed at least
Amount: 1 Plaque	7.00 credits (but no more than 10.50 credits) and the second award
Gonder Family Centre for Students with Disabilities Volunteer Award [10563]	will be given to a student who has completed at least 11.00 credits (but
In recognition of the many students who volunteer their time and talents to assist their	no more than 14.50 credits). Applicants must have at least a 70%
colleagues registered with the Centre for Students with Disabilities (CSD) and to	average in the last two full-time equivalent semesters. The recipient must have participated in extracurricular activities at the University of
encourage others to do so, Dr. John and Mrs. Katherine Gonder provide this award to a	Guelph.
student who has volunteered in the CSD. The award will be made on the basis of the	Amount: 2 awards of \$1,000
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	Heimbecker Award in Entrepreneurship [10388]
undertaken as well as an indication of how this was a valuable and rewarding volunteer	The Heimbecker Award in Entrepreneurship has been established by the friends and
experience. Apply by January 15th to the CSD (c/o Advisor to Students with Disabilities)	associates of Herb Heimbecker, on his retirement as a Director of Goderich Elevators,
by submitting above documentation.	to honour his contributions to the agri-food industry in Canada. Students should apply
Donor(s): Dr. John and Mrs. Katherine Gonder	to Student Financial Services by April 1, including a resume and a letter highlighting
Qualification(s): All students registered in the College of Social and Applied Human	their entrepreneurial skills and their aptitude and interest in business.
Sciences (CSAHS) that have completed between 10.0 and 15.0 course	Donor(s): The friends of Herb Heimbecker at Goderich Elevators
credits with a minimum 70% cumulative average, and have been involved as volunteers with the CSD.	Qualification(s): O.A.C. student in B.Sc.(Agr.) or B.Comm., Agribusiness major, who have completed semester 6 are eligible. Students must have a minimum
Amount: 1 award of \$900	of a B standing (73%-76%) in their previous full-time year or equivalent
Gonder Family Scholarship [10580]	[5.00] credits, have demonstrated entrepreneurial skills and display an
Established in recognition of the diversity of student abilities and the varying challenges	aptitude and an interest in business.
of undergraduate study. The recipient will be chosen on the basis of academic	Amount: 1 award of \$1,300
achievement with a preference to students enrolled in any CSAHS major of the B.Comm.	Hospitality Financial & Technology Professionals Scholarship [I0610]
program. Application not required.	The H.F.T.P. is dedicated to advancing and supporting the professionalism of individuals
Donor(s): Dr. John and Mrs. Katherine Gonder	working in the finance and technology fields of the hospitality industry. Preference will
Qualification(s): All students in the CSAHS who have completed between 10.0 and	be given to students who are Canadian citizens or permanent residents. The recipient
15.0 course credits with a minimum 70% cumulative average, and who	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
have been identified with a learning disability through the University of Guelph's Centre for Students with Disabilities.	include a resume and a complete list of extracurricular activities.
Amount: 1 award of \$900	Donor(s): Hospitality Financial & Technology Professionals (H.F.T.P.)
	<i>Qualification(s):</i> Students registered in a major of the B.Comm. degree program offered
	by the School of Hospitality and Tourism Management who have
	completed at least 7.0 credits but no more than 10.5 credits with a
	minimum 75% in the last two full-time equivalent semesters.
	Amount: awards of \$1,000

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IX. Scholarships and Other Awards, Bachelor of Commerce			
Hotel Human Resource Professionals Association of Greater Metropolitan Toronto	Joan Doherty Memorial Graduate Scholarship [C0090]		
Award [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): Student in the School of Hospitality and Tourism Management who has at least a combined B+ average in the courses Organizational Behaviour I (HTM*2200) and Human Resource Management (HTM*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	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 \$1,000 International Undergraduate Scholarship [10577]	Amount: 1 award of \$2,000		
	Joan Doherty Memorial Scholarship [I0091]		
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 April 1, 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	The family of Joan Doherty, class of FACS '78, has established this scholarship in her memory. Apply by April 1 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         John Deere Foundation of Canada Scholarship [I0516]		
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	Established through the generosity of The John Deere Foundation of Canada to recognize		
application.	academic excellence. Application not required.		
Amount: 1 award of \$1,000	Donor(s): The John Deere Foundation of Canada		
Janet M. Wardlaw Medal [C0096]	<i>Qualification(s):</i> Student registered in the B.Sc.Agr (Food Agriculture and Resource		
<ul> <li>Established in honour of the many contributions of Dr. Janet M. Wardlaw, a former Dean of the College of Family and Consumer Studies. Application not required.</li> <li>Donor(s): Faculty, staff, alumni and students, formerly FACS</li> <li>Qualification(s): Presented to the Department of Family Relations and Applied Nutrition's nominee for the Winegard Medal.</li> </ul>	Economics),B.Sc.(Agr.) Agronomy, B.A. (Food Agriculture and Resource Economics), or B.Comm (Agricultural Business) program who has completed a minimum of 15.0 credits. Selection will be based on the student with the highest cumulative average. A student may be receive this award once only. <i>Amount:</i> 1 award of \$2,000		
Amount: 1 Medal	John Eccles Scholarship [10093]		
Jean Carter Memorial Gerontology Scholarship [10488]	Nominations, accompanied by appropriate resumes, are to be submitted to Student		
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 letter to the CSAHS Undergraduate Awards Committee, Dean's Office by April 1st, including a statement that outlines the student's experience working with the elderly in a volunteer capacity as well as extracurricular involvement the student may have and two letters of reference, one of which should be from someone who can speak to the student's volunteer experiences with the elderly, while the other should comment on the extracurricular activities of the student. <i>Donor(s):</i> Mr. Robert N. Carter and Family	Financial Services by April 1.         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		
<i>Qualification(s):</i> Undergraduate student in the CSAHS who has completed at least 10.0	John J. Campbell Memorial Scholarship [10453]		
credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will be given to students in the BASc program majoring in Gerontology.         Amount:       1 award of \$1,000	Provided by the Food Service Purchasing Association of Canada (FPAC) in memory of John J. Campbell, former President of the Association. Apply by letter describing your interest in food service management, along with a Financial Need Assessment Form (N.A.F.), to Student Financial Services by January 31.		
Jim Stokman Memorial Scholarship [I0386]	Donor(s): Food Services Purchasing Association of Canada		
<ul> <li>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 April 1.</li> <li><i>Donor(s):</i> Mrs. Jim Stokman</li> <li><i>Qualification(s):</i> 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.</li> <li><i>Amount:</i> 1 award of \$600</li> </ul>	Qualification(s): Students in the B.Comm. program in a major offered by the School of Hospitality and Tourism Management, with demonstrated financial need, who have completed at least 7.0 credits but no more than 10.5 credits at the time of application, and have at least a 70% average in the last two full-time equivalent semesters. Preference will be given to students who have (1) an interest in food service management and (2) demonstrated financial need. Students must be registered full-time in the (winter) semester during which they receive the award.         Amount:       1 award of \$1,000		

Kae and Gordon Skinner Memorial Scholarship [C0258]	Leo Lecours Memorial Award [10542]
Provided by the late Kae Stalker Skinner (Mac '30) and Gordon Skinner (O.A.C.'24),	Lecours Wolfson, a Canadian hospitality management and chef recruitment firm, provides
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 Student Financial Services by April 1. Donor(s): <b>The estates of the late Mr. and Mrs. A.G. Skinner</b> 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	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 <i>Donor(s):</i> Norman Wolfson
understanding of the profession of agrology among fellow students.	Qualification(s): Student in the B.Comm. program, in a major offered by the School o
Amount: 1 award of \$750	Hospitality and Tourism Management, who has made the greatest
Katherine Fuller Scholarship [10107]	potential contribution to the School and/or the hospitality industry. Particular attention will be paid to those applicants and nominees who
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 April 1 with a one-page description of contributions to student activities.	are keenly focused on and enthusiastic about a career in the hospitality industry. Amount: 1 award of \$500
The award will be given to the student who has made the greatest contribution to student	Leonard Conolly Exchange Student Scholarship [I0446]
activities in residence or on campus.	
Donor(s):       Mac-FACS-FRAN Alumni Association         Qualification(s):       Full-time students registered in a program offered by the Department of Family Relations and Applied Nutrition, who have completed between 5.0 and 10.0 credits with a minimum cumulative average of 70%.	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 Program 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 releasing the subsequent fall or Centre for International Programs.
Amount: 1 award of \$500	submission describing the significance of the student visiting Guelph to the program o study at the partner exchange university (b) two faculty references of one-page each
Kenneth W. Hammond Award [10045]	and (c) consistent high performance in the course work completed, as documented by a
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 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.	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 undergraduate or graduate 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
Amount: 1 award of \$1,000	Mac '41 Marketing Scholarship [I0214]
Kip Hunter Prize [I0139]	Application not required.
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 the end of the 12th week of the Winter semester. <i>Donor(s):</i> Faculty, students and staff of the Philosophy Department <i>Qualification(s):</i> Any undergraduate who has registered for a philosophy course during	Donor(s):       Mac '42 c/o Association Director, annual Giving         Qualification(s):       B.Comm. student registered in the Marketing Management major who has completed the course "Economic Behaviour of Households (MCS*3100). The recipient of the award will have received the highest grade in MCS*3100 in the previous year.         Amount:       1 award of \$300         Mac-FACS Alumni Association Scholarship - Marketing and Consumer Studies
Amount: 1 Book prize	[10523]
	Awarded to the student with the highest cumulative average. Application not required
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	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
letter of recommendation from a community group, or evidenced by related previous	Mandarin Restaurant Scholarship [I0609]
<ul> <li>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.</li> <li>Donor(s): Lambda Foundation and other donors</li> <li>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</li> </ul>	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-word explaining your interest in the food service industry. Awarded in the winter semester.         Donor(s):       Mandarin Restaurant Franchise Corporation         Qualification(s):       Students in a major of the B.Comm. program offered by the School o 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 term.
defined by the applicant.       Amount:     1 award of \$1,000	last two full-time equivalent semesters.           Amount:         1 award of \$1,000
	Marion McKenzie Prizes for Outstanding Achievement in History [10470]
	<ul> <li>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 pas and present. These are awarded to the top student in each of the required core course in the History program (HIST*1010, HIST*2450, HIST*2602). Application not required <i>Donor(s):</i> TBA <i>Qualification(s):</i> 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.</li> </ul>
	Amount: 3 awards of \$250

3 awards of \$250

O.A.C. '45 Publi	ic Speaking Awards [C0200]	Oxford County Pork Producers Scholarship (Degree) [I0531]
	lass of '45 O.A.C., on the occasion of their 40th anniversary. Application	The Oxford County Pork Producers have made available this scholarship. Apply to
not required.		O.A.C. Awards Committee by April 1 with a letter of up to two pages in length including
Donor(s):	Year '45 O.A.C.	information about leadership, community involvement and pork industry involvement.
Qualification(s):	Graduating students in the B.Sc.(Agr.) or B.Comm.(Agricultural	<b>Donor(s):</b> Oxford County Pork Producers $O_{n,n}(f) = f(f) = f(f) + f($
	Business) programs who have demonstrated proficiency in public speaking and communication.	<i>Qualification(s):</i> Any student who has completed a minimum of 5.0 credits in an O.A.C. degree program with a minimum cumulative average of 70%, pork
Amount:	2 awards of \$1,000	production background or interest in pork production/industry, and
O.A.C. '55 Scho		demonstrated leadership and/or community involvement. Preference
	class of O.A.C. '55. Apply to Student Financial Services by April 1.	will be given to students from Oxford County or surrounding area.
Donor(s):	O.A.C. '55	Amount: 1 award of \$1,000
	Students who are registered in any O.A.C. degree program or students	Parks Canada and TIAC Sustainable Tourism Scholarship [10567]
~ • • • •	enrolled in the B.ENG. program and have completed semester 4.	The recipient must have demonstrated leadership qualities and an entrepreneurial spirit.
	Recipients will have made an outstanding contribution to College life	Preference will be given to a student who has demonstrated a keen interest in sustainable tourism and heritage (natural or cultural). Apply to the HTM Awards Committee by
	through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College,	January 31 using the standard HTM scholarship application form and include a statement
	for fellow students and in their personal development. Recipients must	of up to 500 words that addresses the criteria of this award.
	have a 70% minimum cumulative average.	Donor(s): Tourism Industry Association of Canada (TIAC)
Amount:	1 award of \$2,000	Qualification(s): Students in the Tourism Management major of the B.Comm. program
O.A.C. Centenn	ial Graduate Fellowships [C0209]	who have completed at least 5.0 credits with a minimum 75% average
	ricultural College celebrated its 100th Anniversary in 1974. Many	in the last two full-time equivalent semesters.
0	d companies associated with the agricultural industry provided funds	Amount: 1 award of \$1,000
	ith the Centennial activities. Funds have been established in perpetuity	PCMA Canada East Chapter Scholarship [10590]
	commemoration of the Centennial of the College. Apply to Student	Apply using the standard HTM scholarship application to the HTM Awards Committee
Financial Service	* 1	by January 31 and include a resume and statement of up to 500 words describing involvement in PCMA.
Donor(s): Qualification(s):	Dean, O.A.C. Students graduating from a degree program administered by the Ontario	Donor(s):         Professional Convention Management Association (PCMA) Canada East
Qualification(s).	Agricultural College and who plan to pursue graduate studies in any	Chapter
	department or school of the Ontario Agricultural College in the year	Qualification(s): Students in a major of the B.Comm. program offered by the School of
	of baccalaureate graduation are eligible for these fellowships. The	Hospitality and Tourism Management that has completed at least 10.5
	fellowship will be based on academic achievement in semesters 7 and	credits with at least a 70% average in the last two full-time equivalent
	8, as well as participation in extracurricular activities throughout the student's university career.	semesters and is involved with the PCMA Student Chapter at the University of Guelph or is a student member of the Canada East
Amount:	2 awards of \$2,200	Chapter, PCMA Branch.
	s' Federation Medal [C0217]	Amount: 1 award of \$1,000
Application not r		Priscilla and Stanford Reid Trust Prize [I0597]
Donor(s):	0.A.C.	Established in honour the first chair of the History Department, Stanford Reid, and his
	Graduating student in an undergraduate degree program in a major in	wife, Priscilla Reid to acknowledge the best paper written about the history of
	an O.A.C. department who has been an outstanding leader in student	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
4	activities at the College level throughout his or her University career.	Awards Chair.
Amount:	1 Medal	Donor(s): Priscilla and Stanford Reid Trust Fund
	modation Association Scholarship [I0594]	Qualification(s): Any student submitting an essay on the history of Presbyterianism
	ill be selected based on academic performance and the statement of	and/or Reformed tradition.
11 -	o the HTM Awards Committee by January 31 by using the standard papplication form and include a statement of up to 500 words explaining	Amount: 1 award of \$500
-	he lodging industry.	Purchasing Management Association of Canada (PMAC) Scholarship [I0458]
Donor(s):	Ontario Accommodation Association	This award has been established to promote the profession of purchasing and to encourage
	Students in a major of the B.Comm. degree program offered by the	professional development in purchasing management. Apply to the HTM Awards
	School of Hospitality and Tourism Management who have completed	Committee by January 31 using the standard HTM scholarship application form and include a statement of up to 500 words explaining what was learned in the course and
	at least 11.0 credits but no more than 14.5 credits with a minimum	how that knowledge was applied to the student's professional or personal life.
Amount	75% average in the last two full-time equivalent semesters.	Donor(s):         Greater Wellington District Purchasing Management Association of Canada
Amount:	1 award of \$500	<i>Qualification(s):</i> Student in the B.Comm. program in a major offered by the School of
	Itural FS Cooperatives Scholarship [I0289]	Hospitality and Tourism Management, who obtains a minimum 75%
2	be held once only and is awarded to the student that demonstrates	average in the previous winter's offering of HTM*2000 Hospitality
	ies and have been involved in extracurricular activities, community ultural employment. Apply to the O.A.C. Dean's Office by April 1 with	and Tourism Purchasing Management. Amount: 1 award of \$750
	e than two pages outlining extracurricular activities, community services,	
or agricultural en		Shirley Louie Memorial Scholarship [10392]
Donor(s):	Growmark, Inc.	Offered by the Canadian College and University Food Services Association (CCUFSA)
Qualification(s):	Students who have completed 7.5 course credits of the B.Sc.(Agr.)	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
	degree or B.Comm. (Agricultural Business) degree with a minimum	reasons for interest in the foodservice industry, a resume and any information you think
Amount	cumulative average of 70%. 2 awards of \$800	that the HTM Awards Committee should take into consideration.
Amount:	2 awarus 01 4000	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 \$250
		Amount: 1 award of \$250

Amount:

1 award of \$250

	ttario Scholarships [10550]
	mart Serve Ontario, a non-profit organization dedicated to promoting
-	ervice of alcohol. Application 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
•	gement Accountants of Ontario Scholarship [C0268]
	will be awarded at summer convocation. Application not required. One
	nd a free course enrolment in the first complete CMA subject enrolled
in the Society's p	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 BUS*2220 and Intermediate
	Accounting BUS*3330.
Amount:	1 award of \$500, and a free course enrolment in the first complete
	CMA subject enrolled in the Society's program
Stephanie Wilk	en Volunteer Award [I0449]
Established by th	e Wilken family in memory of Stephanie Wilken, BA 1995. Apply to
	Services with letter indicating the kind and extent of volunteer activities
	Centre by October 1. Selection committee is the Senate Committee on
Awards on the re	commendation of the Student Wellness Educator at the Wellness Centre.
Donor(s):	Bev and Darlene Wilken
	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
	recipient will be selected on the basis of academic performance in an
	courses to date and volunteer work at the Wellness Centre.
Amount:	
	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000
T.K. Warley Ag	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212]
<b>T.K. Warley Ag</b> Established by P	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [10212] rof. T.K. Warley, former Chair of the Department of Food Agriculture
<b>T.K. Warley Ag</b> Established by P and Resource Ec	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture promics and a faculty member of the Ontario Agricultural College from
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Ap	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required.
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Aj <i>Donor(s):</i>	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Aj <i>Donor(s):</i>	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley Student providing the best term paper written on a public policy issue
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Aj <i>Donor(s):</i>	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley Student providing the best term paper written on a public policy issue relating to the agrifood system or rural society in courses such as
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Aj <i>Donor(s):</i>	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Aj <i>Donor(s):</i>	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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
<b>T.K. Warley Ag</b> Established by P and Resource Ec 1970 to 1991. Aj <i>Donor(s):</i>	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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
T.K. Warley Ag Established by P and Resource Ec 1970 to 1991. Aj Donor(s): Qualification(s): Amount:	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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. 1 award of \$500
T.K. Warley Ag Established by P and Resource Ec 1970 to 1991. Aj Donor(s): Qualification(s): Amount: The Jack and L	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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. 1 award of \$500 illian MacDonald Scholarship [E0379]
T.K. Warley Ag Established by P and Resource Ec 1970 to 1991. Aj Donor(s): Qualification(s): Amount: The Jack and L Family, friends,	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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. 1 award of \$500 Illian MacDonald Scholarship [E0379] and colleagues of Lillian MacDonald and Dr. Jack MacDonald,
T.K. Warley Ag Established by P and Resource Ec 1970 to 1991. Aj Donor(s): Qualification(s): Amount: The Jack and L Family, friends, Vice-President,	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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. 1 award of \$500 Illian MacDonald Scholarship [E0379] and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Academic, of the University of Guelph from 1986 to 1995, have
T.K. Warley Ag Established by P and Resource Ec 1970 to 1991. Aj Donor(s): Qualification(s): Amount: The Jack and L Family, friends, Vice-President, established a sche	courses to date and volunteer work at the Wellness Centre. 1 award of \$1,000 rifood Policy Prize [I0212] rof. T.K. Warley, former Chair of the Department of Food Agriculture onomics and a faculty member of the Ontario Agricultural College from oplication not required. Professor T.K. Warley 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. 1 award of \$500 illian MacDonald Scholarship [E0379] and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Academic, of the University of Guelph from 1986 to 1995, have olarship that recognizes their commitment to increasing the accessibility
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1		
Toronto District Beekeeper's Association Scholarship [I0285]		
A scholarship is	offered by the Toronto District Beekeepers Association in memory of	
the late Hugh Mo	Leod, past chair of the Association. Application 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	
Amount:	beekeeping. 1 award of \$500	
	kers Local 4120 Scholarship [I0293]	
	Financial Services, by January 31.	
Donor(s): Qualification(s):	United Steelworkers LU4120 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. 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, provided that a minimum of 70% standing is obtained.	
Amount:	1 award of \$1,000	
Van Stralen and	l Van Der Hoeven Memorial Scholarship [10296]	
-	be made by nominations signed by 4 currently registered students	
	dent Financial Services by April 1. Presentations are made in the Fall	
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. 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.	
Amount:	2 awards of \$400	
W.C. Winegard	Medal [C0311]	
	ard Medal is the most prestigious graduating award of the University	
of Guelph. One Senate Awards C	student will be nominated by each College Awards Committee. The Committee will make the final selection and the medal will be awarded n June. Application not required.	
Donor(s):	The Board of Governors' of the University	
	Graduating student who excels both academically and in extracurricular activities.	
Amount:	1 Gold medal	
W.N. Vaughan	Medal [C0299]	
Prospective cand	lidates will be nominated by Senators and the medal winner will be	
	mittee selected by the Striking Committee. The medal will be awarded	
at Convocation in June. Application 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	
Amount:	through involvement in and commitment to Senate activities. 1 Medal	
Walter M. Stew	Walter M. Stewart Scholarships [I0273]	
Established and c not required.	ffered through the W.C. Macdonald Company of Montreal. Application	
Donor(s):	W.C. Macdonald Company	
	Students with the highest cumulative average in the Marketing Management or Real Estate and Housing majors of the B.Comm. program. Marketing and Consumer Studies major who are entering semester level 5, 6 or 7. Students may receive only one Walter M.	
	Stewart Scholarship.	
Amount:	2 awards of \$400	

# Warren Jestin Scholarship in Canadian Economic Policy [10557]

Dr. Warren Jestin, a B.A. and M.A. economics graduate of the University of Guelph and a member of the University's Board of Governors from 1997 to 2003, provides this award to a student registered in an honours degree in either the B.A program with a major in Economics or the B.Comm program with a major in Management Economics in Industry and Finance. The award winner will have achieved the highest cumulative average across all economics policy courses taken. Application not required.

#### Donor(s): Warren Jestin

Qualification(s):	Full-time registered in BAH.ECON or BCOM.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 Award [I0367]

Provided by the Waterloo-Wellington Chartered Accountant's Association. Awarded in the Winter semester. Application not required.

#### Donor(s): Waterloo-Wellington Chartered Accountants Association

 Qualification(s): Student who achieves the highest academic standing in the course BUS\*3330, Intermediate Accounting.

 Amount:
 1 award of \$100

#### Westmont Hospitality Group Scholarship [I0126]

Awarded in the Winter semester. Apply to the HTM Awards Committee by January 31 by using the standard HTM scholarship application form and include a resume and list of extracurricular activities including leadership roles.

#### Donor(s): Westmont Hospitality Group

Qualification(s):	Student registered in the B.Comm. program in a major offered by the
	School of Hospitality and Tourism Management who have completed
	a minimum of 17.5 credits. Academic achievement and participation
	in extracurricular activities including leadership roles will also
	considered.
Amount:	1 award of \$900

#### William Furlong Scholarship in Microeconomics [10582]

The Department of Economics offers these scholarships in honour of Professor William Furlong, a long-term member of the Department of Economics and a leader in the scholarship of teaching principles of microeconomics, to the three students with the highest final grades in Introductory Microeconomics (ECON\*1050) in the fall semester. Application 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

#### 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. Awarded in the Winter semester.

#### 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:	2 awards of \$1,000

#### 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. Awarded in the Winter semester. 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 \$1,500

## Cara Operations Scholarships [14503]

Provided by Cara operations, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. To be considered for this award, you must list it on your N.A.F. Awarded in the Winter semester. ACCESS AWARD.

#### Donor(s): Cara operations Limited

201101 (0).	1
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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7.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

Amount:	1 award of \$2,000
A	1
	citizens or permanent residents at the time of application.
	must be graduates of a City of Guelph high school and be Canadian
	70% average, demonstrated leadership and financial need. Applicants
	and less than 10.5 credits of full-time study, a minimum cumulative
~ * · · ·	and loss than 10.5 and its of full time study, a minimum sumulative
Qualification(s):	Students registered in any degree program with more than 5.0 credits

#### Delta Hotels Limited Scholarship [I4502]

Provided by Delta Hotels & Resorts Limited with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) 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. Awarded in the Winter semester. 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 \$1,500

#### 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. Awarded in the Winter semester. 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 April 1 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

Journey's End Management Inc. Scholarships (ACCESS) [I4504]
Provided by Journey's End Corporation with the assistance of the Ontario government's OSOTF. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. The award will be distributed based on financial need. The award will be distributed based on financial need. Awarded in the Winter semester. 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 13.00 to 17.50 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 \$1,500
O.A.C. '52 Scholarships [14538] 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. Awarded in the Winter semester. ACCESS
<ul> <li>AWARD.</li> <li>Donor(s): O.A.C. '52</li> <li>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).</li> <li>Amount: 2 awards of \$2,500</li> </ul>
R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]
<ul> <li>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. Awarded in the winter.</li> <li>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.</li> <li>Amount: 1 award of \$1,000</li> </ul>
Robert, Louis and Helen Shaw Memorial Degree Scholarships [14520]
Established by the Shaw Scholarship Committee with the assistance of the Ontario government's OSOTF program. Apply with a letter, including a summary of local agricultural activities and a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. ACCESS AWARD Donor(s): The Shaw Scholarship Committee Qualification(s): Students registered in the B.A.Sc., B.Comm. in Agricultural Business,
B.Sc.(Agr.) or D.V.M. programs studying agriculture, horticulture, equine studies, food and nutrition or veterinary sciences with demonstrated financial need, a 70% cumulative average and involvement in local agricultural activities. Preference will be given to first year students from Peterborough County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).Amount:Several awards of \$1,000
Tara Lynn Giuliani Memorial Award [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 to the Centre for Students with Disabilities by November 25.
Donor(s): The Giuliani Family
Qualification(s):       Most academically promising applicant with a demonstrated disability and having financial need.         Amount:       1 award of \$500

#### University of Guelph Retiree Association Degree Scholarship [I0569]

	-	8	1 -		
This bursary is a	available to students who	are related t	to a member	of the U.G	.R.A. as
child, grand-chi	ld, or great grand-child.	Selection	will be base	ed on the	greatest
demonstration of	financial need. Apply to S	Student Fina	ncial Services	s by Octobe	er 7 with
a Financial Need	d Assessment Form (N.A	.F.) and a le	etter indicatin	g the name	e of and
relationship to th	e U.G.R.A. member.				
Donor(s):	University of Guelph Retir	ees Associati	on (U.G.R.A.)		
Qualification(s):	Students related to a mem	ber of U.G.F	R.A. that are re	gistered in	a degree
	program with a minimun	n 75% cumu	lative average	e in the last	t two
	semester of full-time stud	dies and den	nonstrated fin	ancial need	1.

#### Amount:

#### Westmont Hospitality Group ACCESS Scholarship [I4126]

1 award of \$1,000

Provided by Journey's End Corporation with the assistance of the Ontario government's OSOTF. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award, you must list it on your N.A.F. The award will be distributed based on financial need. Awarded in the Winter semester. ACCESS AWARD

#### Donor(s): Journey's End Corporation

Donor(s).	sourney'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 13.00
	to 17.50 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 \$1,500

#### 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 Awards with Financial Need**

#### 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. Awarded in the Winter semester. 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.) to Student Financial 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): 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 [I3511]

Established by the Canadian Imperial Bank of Commerce, with the assistance of the Ontario government's OSOTF program, to assist students to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. 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 [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. Awarded in the Winter semester. 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. Awarded in the Winter semester. 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. Awarded in the Winter semester. ACCESS AWARD

#### Donor(s): Class of 1936 Oualification(s): An O.A.C. degree stu

 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]	<b>Gonder Family</b>	Bursary [13543]
government's OS '73 and graduated Need Assessmer in the Winter ser Donor(s): Qualification(s): Amount:	nory of David R. Leach by his family, with the assistance of the Ontario SOTF program. David entered O.A.C. in 1969 as a member of O.A.C. d with a B.Sc. in Agriculture in 1974. Apply with a completed Financial nt Form (N.A.F.) to Student Financial Services by October 7. Awarded mester. ACCESS AWARD <b>Mrs Deborah Leach-Sartor</b> : 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). 1 award of \$1,000	OSOTF program to Student Finar automatically on Winter semester Donor(s):	the Gonder Family, with the assistance of the Ontario government's n. Apply with a completed Financial Need Assessment Form (N.A.F.) icial Services, by October 7. Students will be considered for this award nce a N.A.F has been submitted by the deadline date. Awarded in the ACCESS AWARD <b>Dr. John Gonder and family</b> : 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. Preference will be given to a student who has held the award in the previous year. The award can be held a maximum of three times (years two to four of study). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
	e Ontario Egg Producers' Marketing Board and the O.A.C. Alumni	Amount:	1 award of \$1,000
Foundation with with a completed by October 7. To include a stateme semester. ACCE <i>Donor(s):</i>	n the assistance of the Ontario government's OSOTF program. Apply I Financial Need Assessment Form (N.A.F.) to Student Financial Services to be considered for this award you must indicate it on your N.A.F. and ent outlining your interest in the poultry industry. Awarded in the Winter	[ <b>I3032</b> ] Donated by the Ontario. Prefere County of Perth, 7. Students will submitted by the <i>Donor(s):</i>	hapter (Society of Management Accountants of Ontario) Bursary Grand River Chapter of the Society of Management Accountants of ence will be given to students who attended a secondary school in the Waterloo or Wellington. Apply to Student Financial Services by October be considered for this award automatically once a N.A.F has been e deadline date. Awarded in the Winter semester. Society of Management Accountants of Ontario : Full-time student in financial need and registered in the B.Comm. program. 1 award of \$500
	government-mandated terms for receipt of an OSOTF award (see	Gryphon Inves	tment Council Bursaries [I3513]
Amount:	General Statements on Awards). 6 awards of \$1,000		Gryphon Investment Counsel, with the assistance of the Ontario
	on Bursaries [13503]	~	SOTF program. Awarded in the Winter semester. Apply with a completed Assessment Form (N.A.F.) to Student Financial Services by October 7.
provides bursarie Financial Need A Students will be a by the deadline of Donor(s):	<ul> <li>Burton, with the assistance of the Ontario government's OSOTF program, es to students with demonstrated financial need. Apply with a completed Assessment Form (N.A.F.) to Student Financial Services by October 7. considered for this award automatically once a N.A.F has been submitted date. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Mrs. Elizabeth Burton</li> <li>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</li> </ul>	by the deadline N.A.F has been s AWARD Donor(s):	<ul> <li>considered for this award automatically once a N.A.F has been submitted date. Students will be considered for this award automatically once a submitted by the deadline date. Awarded in the Winter semester. ACCESS</li> <li>Gryphon Investment Council Inc.</li> <li>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).</li> <li>2 awards of \$1,500</li> </ul>
	Awards).	Guelph Compa	ssionate Health Bursary [I3061]
Amount:	Several awards of up to \$2000	This bursary ha	s been established and approved by the Student Health and Dental
Established by th Miles, life long Assessment For	he family to honour the memory of the parents, George and Margaret J. g supporters of education. Apply with a completed Financial Need rm (N.A.F.) and a letter describing involvement in extra-curricular dent Financial Services by October 7. Awarded in the Winter semester. RD	the benefits offer Submit a Finan recommendation Student Financia	ssist students up to 80% of unforeseen health needs above and beyond ered through the mandatory University of Guelph student health plan. cial Need Assessment Form (N.A.F.) accompanied by the physician a, cost estimates and physician contact information to the Awards Officer, al Services. The application will be reviewed throughout the semester encies immediately.
Donor(s): Qualification(s):	Established by the Miles Family 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.).	Amount: Guelph Studen These bursaries	Student Health and Dental Plan Reserve         : Students must be registered on the University of Guelph Student Health         Plan. The student must require treatment for a condition not currently         or completely covered by the Student Health Plan.         Several varies to a maximum \$1,000         t Assistance ACCESS Bursaries [I3556]         have been established and approved by undergraduate students through
Amount:	Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). 2 awards of \$1,500	undergraduate a Preference will assistance progra Student Loan Pr Financial Need for this award a Typically, award <i>Donor(s):</i>	tum with the aid of the Ontario government's OTSS program to assist and University of Guelph campus diploma students in financial need. be given to students who are not eligible for provincial and/or federal ams such as Ontario Student Assistance Program (OSAP) and/or Canada rogram (CSLP). Apply to Student Financial Services with a completed Assessment Form (N.A.F.) by October 7. Students will be considered automatically once a N.A.F has been submitted by the deadline date. ded in the Winter semester. ACCESS AWARD. Central Student Association : 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

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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. Typically, awarded in the Winter semester.

#### Donor(s): Undergraduate Students

Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Several awards of varying amounts up to \$1,000 Amount:

#### 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

	date. Awarded in the Winter semester.		to Student Finar
Donor(s):	Mr. T.K.C. Karr, O.A.C. '32		automatically o
Qualification(s	): O.A.C. students with demonstrated financial need	Awarded in the	e Winter semeste
Amount:	Several varies	Donor(s):	Mr. J.H. Lero
Helen Mahon I	Memorial Bursary [I3063]	Qualification(s	s): O.A.C. degre
Established in	memory of Helen Mahon, a longtime employee of the University of		B.Sc.Env.) pr students must
Guelph and who	o, following the death of her husband, raised three young children alone,		OSOTF awar
0	duated from university. Apply to Student Financial Services by October	Amount:	4 awards of \$
	cial Need Assessment Form and indicate on the N.A.F that you wish to	Marie Hardac	re Bursary [135
	for this award. Awarded in the winter.		Mrs. A. Marie I
Donor(s):	Family and Friends of Helen Mahon		female students
Qualification(s)	): Students registered in any program who come from a family where one parent is deceased.	*	ion. Apply by O
Amount:	1 award of \$500	* *	d Assessment
		automatically of	once a N.A.F ha
	Iyrtle Rogers Bursaries [I3537]	winter semeste	r. ACCESS AW
	Estate of Howard and Myrtle Rogers, with the assistance of the Ontario	Donor(s):	Mrs. A. Marie
0	OSOTF program. Apply with a completed Financial Need Assessment	Qualification(s	): Students regis
	to Student Financial Services by October 7. Students will be considered automatically once a N.A.F has been submitted by the deadline date.		and Applied I
	Winter semester. ACCESS AWARD		Additionally,
			receipt of an
Donor(s):	The Estate of Howard and Myrtle Rogers	Amount:	1 award of \$4
Qualification(s)	): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply	Mary I. White	lock Bursaries
	for an award in each year of study. The award may have been held in	Established by	the estate of M
	previous years but students must demonstrate on-going financial need.	assistance of th	e Ontario govern
	Additionally, students must meet the government-mandated terms for		but who need fin
	receipt of an OSOTF award (see General Statements on Awards).		ent Form (N.A.F
Amount:	10 up to \$2,000		red for this awar
International I	Emergency Medical Aid Assistance [I3059]		Awarded in the
	of Guelph provides support to International undergraduate students that	Donor(s):	Estate of Mary
	unexpected, or unforeseen financial shortfalls due to a medical issue not	Qualification(s	s): Students with meet the gove
	IP or the Student Dental/Medical insurance plans. Students should apply		(see General )
to the Internatio	onal Student Advisor, in the Centre for International Programs office, by	Amount:	13 awards of
1 0	International Student Financial Need Assessment Form (N.A.F.) and		
	umentation to support the medical issue. These bursaries are awarded on		oyd Minshall Bu
an on-going bas		-	O.A.C. '38 Alu
Donor(s):	University of Guelph		m, to recognize the Apply with a co
Qualification(s	): Any International student registered in a degree program at the		cial Services by
	University of Guelph with a minimum registration of 1.50 course		once a N.A.F ha
	credits.		er. ACCESS AW
Amount:	Several awards of varying amounts	Donor(s):	O.A.C. '38 Alu
International S	Student Bursaries [I3009]		(): O.A.C. under
	. Valeriote has made available a number of bursaries. Apply to the	enangie anon (s	semesters 5, 6
International St	udent Advisor.		apply. Additi
Donor(s):	Mrs. Norma L. Valeriote		terms for rece
Qualification(s	): Students who are citizens of Third World countries, as defined by the		Awards).
	United Nations, who are registered in a degree or diploma program	Amount:	7 awards of \$
	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. Awarded in the Winter semester.

Donor(s):	Family and friends of Irvine and Grace B.L.A.ck
Qualification(s):	Full-time undergraduate students registered in a

Qualification	(s). I un-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 incial Services by October 7. Students will be considered once a N.A.F has been submitted by the deadline date. er. ACCESS AWARD

Qualification(s): C	D.A.C. degree students in the B.Sc.(Agr.), B.Sc., B.Comm. or
В	B.Sc.Env.) programs with demonstrated financial need. Additionally,
st	tudents must meet the government-mandated terms for receipt of an
C	DSOTF award (see General Statements on Awards).
Amount: 4	awards of \$1,000

#### 548]

Hardacre, MAC DHE 1930 for students in CSAHS with ts registered in the Department of Family Relations and October 7 to Student Financial Services with a completed Form. Students will be considered for this award as been submitted by the deadline date. Awarded in the VARD.

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

#### [13524]

Mary I. Whitelock, a friend of the University, with the rnment's OSOTF program, to assist students who wish to nancial support to do so. Apply with a completed Financial F.) to Student Financial Services by October 7. Students rd automatically once a N.A.F has been submitted by the Winter semester. ACCESS AWARD.

#### v I. Whitelock

201101 (5).	
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

#### ursaries [I3529]

umni, with the assistance of the Ontario government's the many contributions of Lloyd Minshall to his classmates ompleted Financial Need Assessment Form (N.A.F.) to October 7. Students will be considered for this award as been submitted by the deadline date. Awarded in the VARD

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 and O.A.C. graduate students are eligible to
	apply. Additionally, students must meet the government-mandated
	terms for receipt of an OSOTF award (see General Statements on
	Awards).
Amount:	7 awards of \$1,000

ny degree program

0 4 0 100 A D 1 1000101	
O.A.C. '55 Access Bursaries [I3517]	Ontario Co-operatives R.P. Forshaw Bursary [I3013]
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	The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw hav established this bursary. Apply to Student Financial Services with a completed Financia Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.
automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw
Donor(s): O.A.C. Class of '55	<i>Qualification(s):</i> Undergraduate students who have financial need. Preference may b
<i>Qualification(s):</i> 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	given to candidates who have been or are members of a co-operativ or credit union.
a 60% minimum cumulative average. Additionally, students must meet	Amount: 1 award of \$400
the government-mandated terms for receipt of an OSOTF award (see	Ontario Federation of Agriculture Bursaries [13520]
General Statement on Awards).       Amount:     Several awards of \$500	Provided by the Ontario Federation of Agriculture and the O.A.C. Alumni Foundati
O.A.C. '57 Bursaries [I3518]	with the assistance of the Ontario government's OSOTF program. Apply with a let and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Service
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 subtractically once a N.A.E. has been submitted by the deadline date. Avarded in the	by October 7. To be considered for this award you must indicate it on our N.A.F. a include a statement outlining your extracurricular activities. Awarded in the Wint semester. ACCESS AWARD
automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD	<i>Donor(s):</i> Ontario Federation of Agriculture <i>Qualification(s):</i> O.A.C. students with demonstrated financial need enrolled in the
Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation	B.Sc.(Agr.), B.Comm., B.Sc. or B.Sc.(Env.) programs. Preference w
<i>Qualification(s):</i> 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	be given to students from farm families who have participated in 4 and/or rural community activities. Additionally, students must mee the government-mandated terms for receipt of an OSOTF award (s
Awards). <i>Amount:</i> 5 awards of \$1,000	General Statements on Awards).           Amount:         12 awards of \$500
O.A.C. Alumni Foundation Access Bursaries [I3533]	Ontario Grape Growers Bursary [13033]
Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario	Offered by the Ontario Grape Growers Action Committee. Apply to Student Finance
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.	Services with a completed Financial Need Assessment Form (N.A.F.) by October Students will be considered for this award automatically once a N.A.F has been submitt by the deadline date. Awarded in the Winter semester.
Awarded in the Winter semester. ACCESS AWARD       Donor(s):       O.A.C. Alumni Foundation	Donor(s):         The Ontario Grape Growers Action Committee           Qualification(s):         Students with good academic standing in semesters 3 to 6 of a degr
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	program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.
receipt of an OSOTF award (see General Statements on Awards). <i>Amount:</i> 4 awards of \$500	Amount: Several of various amounts
Ontario Agri Business Association Degree Bursaries [I3502]	Ontario Pork (Degree) Bursary [I3049] Provided by Ontario Pork Producers' Marketing Board. Apply with a completed Financ
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	Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Studen will be considered for this award automatically once a N.A.F has been submitted by t deadline date. Awarded in the Winter semester. <i>Donor(s):</i> <b>Ontario Pork Producers' Marketing Board</b> <i>Qualification(s):</i> B.Sc.(Agr.) and B.Comm., Agricultural Business major, students w
activities. ACCESS AWARD.	demonstrated financial need who have completed semester 4 and w have satisfactory academic standing and an interest in pork production
Donor(s):         Ontario Agri Business Association           Qualification(s):         Students who have completed a minimum of 10.0 credits in the	Amount: 1 award of \$500
B.SC.(Agr.) program in either an unspecialized major or in Food Agriculture and Resource Economics, Animal Science, Agronomy or	Robert Auger Humanitarian Bursary [I3058]
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).	This award, of up to \$500, has been established through the generosity of staff in t Office of Registrarial Services, family and friends of Robert Auger, a former Associa Registrar at the University of Guelph. It is intended as an emergency fund to ass students who unexpectedly find themselves in difficult financial circumstances, to provi
Amount: 4 awards of \$750	grocery, and textbook vouchers. Donor(s): Office of Registrarial Services
Ontario Cattlemen's Association Degree Bursary [I3506]	Qualification(s): Students who require assistance through this fund should apply in
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	confidence to the Assistant Registrar, Financial Aid, Student Financ Services.
by October 7. Students will be considered for this award automatically once a N.A.F	Amount:         Several awards of \$500           Scotiabank Bursaries [13532]
has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	Established by Scotiabank, with the assistance of the Ontario government's OSO'
Donor(s):         Ontario Cattlemen's Association           Qualification(s):         Students with demonstrated financial need who are enrolled in semester	program, to assist students with financial need to continue their studies as full-tin students. Distributed in the Winter semester. Apply with a completed Financial Ne
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	Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will considered for this award automatically once a N.A.F has been submitted by the deadlid date. Awarded in the Winter semester. ACCESS AWARD.
60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see	Donor(s): Scotiabank
Amount:       4 awards of \$500	<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of
	OSOTF award (see General Statements on Awards).Amount:2 awards of \$1,500

T.K. Warley Bursaries [I3510]	University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [13037]
Established by O.A.C. Alumni Association, with the assistance of the Ontario	The University of Guelph offers in-course bursaries to students who have demonstrated
government's OSOTF program, to recognize Professor T.K. Warley's significant	financial need. Apply to Student Financial Services, with a completed Financial Need
contribution to the O.A.C. Alumni Foundation and to students through teaching and	Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.
promotion/development of "Experience Agriculture". A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed	Donor(s): University of Guelph
Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.	<i>Qualification(s):</i> Ontario students registered for full-time studies (as defined by OSAP)
Awarded in the Winter semester. ACCESS AWARD.	in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed.
Donor(s): O.A.C. Alumni Association	Amount: Several awardsranging in value from \$100 to \$3,000
Qualification(s): Students with demonstrated financial need who are in semester 5 to 8	University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [13047]
of any degree program within O.A.C A minimum 65% is required,	The University of Guelph offers in-course bursaries to students who have demonstrated
as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated	financial need. Apply to Student Financial Services, with a completed Financial Need
terms for receipt of an OSOTF award (see General Statements on	Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.
Awards).	Donor(s): University of Guelph
Amount: 3 awards of \$500	<i>Qualification(s):</i> Undergraduate students registered for full-time studies (as defined by
University of Guelph Access Bursaries [I3522]	OSAP) in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed.
Provided by alumni and friends of the University, with the assistance of the Ontario	Amount: Several awards to a maximum of \$800
government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) diploma students who wish to study full-time but who need financial support to do so.	University Police Bursaries [13019]
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial	The University Police have made available a number of bursaries. Apply to Student
Services by October 7. Students will be considered for this award automatically once a	Financial Services with a completed Financial Need Assessment Form (N.A.F.) by
N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS	October 7. Students will be considered for this award automatically once a N.A.F has
AWARD. Variable amounts from \$500 to \$2,000	been submitted by the deadline date.
Donor(s):         Alumni and Friend of the University of Guelph           Qualification(s):         Full-time students with demonstrated financial need. Additionally,	Donor(s):         The University Police           Qualification(s):         Full-time undergraduate and graduate students who have financial
students must meet the government-mandated terms for receipt of an	<i>Qualification</i> (s). Fun-time undergraduate and graduate students who have financial need.
OSOTF award (see General Statements on Awards).	Amount: Several of various amounts
Amount: Several awards of \$500, Several awards of \$2,000	University Student Assistance Program [I3057]
University of Guelph Alumni Association Access Bursaries [13523]	These bursaries have been established and approved by the University of Guelph to
Established by the University of Guelph Alumni Association, with the assistance of the	assist undergraduate and University of Guelph campus diploma students in financial
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	need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Typically, awarded in the Winter semester.
Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be	Donor(s): University of Guelph
considered for this award automatically once a N.A.F has been submitted by the deadline	Qualification(s): Full-time undergraduate students registered in any degree program
date. Awarded in the Winter semester. ACCESS AWARD.	with demonstrated financial need. Preference will be given to students
Donor(s): University of Guelph Alumni Association	who are not eligible for provincial and/or federal assistance programs
<i>Qualification(s):</i> Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for	such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).
receipt of an OSOTF award (see General Statements on Awards).	<i>Amount:</i> Several awards of various amounts to a maximum of \$1,000
Amount: 2 awards of \$1,000	In-course Travel Grants
University of Guelph Child Care Bursaries [I3053]	A.W. Archibald Memorial Travel Grant [T4541]
In order to provide accessible child care to students with (a) child(ren), the University	Mr. A.W. Archibald, O.A.C. '33 with the assistance of the Ontario government's OSOTF
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.)	program, provide these travel grants to students who plan to travel for a semester abroad
by October 7. Awarded in the Winter semester.	or to attend other schools outside of Canada for workshops or other academic related
Donor(s): University of Guelph	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
Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial	or student advisor, a travel budget, and a completed Financial Need Assessment Form
need, to offset the costs of child care. To be eligible, undergraduate	(N.A.F.) by October 7. ACCESS AWARD.
students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial	Donor(s): A.W. Archibald, O.A.C. '33
need.	<i>Qualification(s):</i> Undergraduate students in any O.A.C. program with demonstrated
Amount: Several awards of up to \$2,000	financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see
University of Guelph International Bursary [I3048]	General Statements on Awards).
The University of Guelph provides support to International undergraduate students that	Amount: Several up to \$1000
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	Aeroplan International Travel Grant [T0604]
completing an International Student Financial Need Assessment Form (N.A.F.). These	Established to provide students with an airline ticket to international destinations served
bursaries are awarded on an on-going basis.	by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for
Donor(s): University of Guelph	Fall travel, October 1 for winter travel, and February 1 for summer travel to Student
<i>Qualification(s):</i> Any International student registered in a degree program at the	Financial Services. Award is subject to the availability of Aeroplan miles and may not
University of Guelph with a minimum registration of 1.50 course credits.	be available every year.
Amount: Several varies	Donor(s): Aeroplan
	<i>Qualification(s):</i> Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation
	in University of Guelph travel activities related to their academic
	program. Preference will be given to students participating in the
	semester abroad or academic exchanges.
	Amount: 1 plane ticket per each semster

Arthur D. Latornell Undergraduate Travel Grants [T0058]	Elizabeth M. (Betty) Upton Memorial Travel Grant [T0366]
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 1 for Fall 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. <i>Donor(s):</i> <b>The Estate of Arthur D. Latornell</b> <i>Qualification(s):</i> Students in semester 3 and above. Students must have at least a 70% average and a primary area of interest 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. <i>Amount:</i> several up to a maximum of \$1000	Established in memory of Elizabeth M. Upton, a faculty member in the School of Hospitality and Tourism Management, who played a key role in the development of the School and was instrumental in the development of the Institutional Foodservice Management major. Apply by letter, by April 1, to the HTM Awards Committee describing the travel, the expected benefit and including a budget and any expected sources of funding. Varies but will not exceed \$500. <i>Donor(s):</i> The faculty and alumni of HTM and family and friends of Elizabeth M. (Betty) Upton <i>Qualification(s):</i> 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 a graduate or 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.
Canada's Outdoor Farm Show Travel Grants [T3536]	Amount: 1 award of \$500
Established by Canada's Outdoor Farm Show and the O.A.C. Alumni Foundation, with	H.C. Mason Travel Scholarships [T0598]
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 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	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 April 1, 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. <i>Donor(s):</i> <b>Mr.F.W.Bray</b> <i>Qualification(s):</i> 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 various awards up to \$1,500
<b>Canadian Friends of the Hebrew University in Jerusalem Travel Bursary [T4532]</b> The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the	J. Ross Cavers Study Abroad Scholarship [T0051]
Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1. 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, Masters students in the first year of study, and Doctoral students in the first three years of study are eligible to be considered. 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,	<ul> <li>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 April 1. 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.</li> <li><i>Donor(s):</i> Class of O.A.C. '53</li> <li><i>Qualification(s):</i> 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.</li> <li><i>Amount:</i> 3 awards of \$1,800</li> </ul>
students must meet the government-mandated terms for receipt of an	J.D. Cunningham Travel Grant [T0605]
OSOTF award (see General Statements on Awards). Amount: 3 Awards with varying amounts 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 April 1 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 \$1,000	Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by April 1 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 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 o acoferance related to their studies. Arely to the Chair of the
	assist students to attend a conference related to their studies. 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%. 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.         Amount:       1 award of \$400

Louise McConkey Travel Scholarship [T0431]	Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
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 of the Department of Marketing & Consumer Studies Awards Committee including a budget and a description of the travel and the benefit to be gained. One or more awards up to a total of \$1,400. <i>Donor(s):</i> <b>The estate of Louise McConkey</b> <i>Qualification(s):</i> Undergraduate or graduate students in the Department of Marketing & Consumer Studies with a minimum 70% cumulative average in the	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 description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. ACCESS AWARD.
last two full-time equivalent semesters.       Amount:     1 award of \$1,400	Donor(s):         The Estate of Richard Hungerford           Qualification(s):         Registered undergraduate students with demonstrated financial need
Massey Fund Travel Scholarships [T0417]	who have at least a 70% cumulative average in the last 2 semesters of
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 April 15.	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
Donor(s): O.A.C. Awards Committee	Robb Travel Grants [T3028]
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:       1 award of \$750	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 April 15. Varying amounts (80% of the travel costs will be covered up to \$750 per student). <i>Donor(s):</i> The estate of Martha Robb
O.A.C. '05 Excellence Travel Grant [T0060]	<i>Qualification(s):</i> O.A.C. students who are attending another university on a Letter of
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005.	Permission.
Apply to the O.A.C. Awards Office by April 1 with the submission of a letter of no	Amount: Several varies
<ul> <li>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.</li> <li>Donor(s): Class of OAC 1905 and the Class of OAC 2005</li> <li>Qualification(s): Student who are currently registered in an Ontario Agricultural College</li> </ul>	<b>Roderick Long International Travel Grant [T0360]</b> 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 April 15, and include a description of the study abroad program. Travel grant (or grants) totalling \$1,500. <i>Donor(s):</i> <b>Mr. Roderick W. Long</b>
undergraduate degree program and wish to travel to expand their educational opportunities.         Amount:       1 award of \$300	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 \$1,500
O.A.C. '47 Travel Bursaries [T3505]	University of Guelph Travel Scholarships [T0421]
<ul> <li>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 by letter with a completed Travel Award Application and a Financial Need Assessment Form (N.A.F.) for Travel awards to Student Financial Services by October 1, February 1 or June 1. ACCESS AWARD Donor(s): O.A.C. '47</li> <li>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).</li> <li>Amount: 3 awards of \$600</li> </ul>	The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. <i>Donor(s):</i> University of Guelph <i>Qualification(s):</i> Registered undergraduate and graduate students that have completed
O.A.C. '54 International Study Scholarship [T0586]	5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time
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 April 1, no more than two semesters	equivalent study are eligible to apply. The value of the award will depend on the assessed financial need. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation.Amount:Several up to \$1,500
prior to the commencement of the program.	Varley and Lyon Exchange Scholarships [T0298]
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.	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 Student Financial Services by April 1, including a letter from the Dean or Director approving the proposed program of study. <i>Donor(s):</i> Miss Bertha Manent
Amount: 2 awards of \$1,450	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

3 awards of \$750

Please refer to the General Statement on Awards for:

- 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**

#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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.

#### The Frank Agro Estate Donor(s):

ç	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.
ŀ	Amount:	4 awards of \$7,000
Ē		

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

Donor(s): Qualification(s):	Board of Governors Outstanding students entering semester 1
Amount:	25 awards of \$8,000
December 6th M	Iemorial Scholarship [E0005]
fourteen women	, established by the Faculty Association, is awarded in memory of the murdered in December 1989 at Ecole Polytechnique and is intended to a profession that is largely comprised of men. Application 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. 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.

1 award of \$2,250 (\$750 in each of semesters 1, 3 and 5). Amount:

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 to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main campus.

#### Friends and Associates Donor(s): 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. Preference will be given to Graduates of the

Diploma in Agriculture program. 1 award of \$1,200 Amount

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. Application not required. Earl B. MacNaughton Donor(s):

Qualification(s): Students with high academic standing, entering an honours program in the College of Physical and Engineering Science. Emphasis will be given to academic achievement in high school science and mathematics. Amount: 4 awards of \$1,000

	es Scholarship [E0140]	
Application not	•	
Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodste Agricultural Society.	
Qualification(s). Amount:	Student from Oxford County with the highest admission average. 1 award of \$1,400	
International S	tudent Entrance Scholarships [E0408]	
are available ea semester of an u must submit all	University's strategic direction of internationalism, entrance scholarshi ch Fall semester to the top international students entering their fi indergraduate degree program at the University of Guelph. Applican relevant documentation for admission consideration by March 1 to a scholarship. These scholarships are awarded on a competitive bas required.	
Donor(s):	University of Guelph	
	Students on a "student visa" entering an undergraduate degree progra at the University of Guelph with a record of high academic achieveme and extracurricular involvement, and studying full-time. This awar is offered for the first year of study.	
Amount:	Several awards ranging in value from \$500 - \$6,000	
	an Scholarship [E0170]	
Provided by the	family of J.D. MacLachlan. Application not required.	
Donor(s):	The J.D. MacLachlan Trust	
Qualification(s). Amount:	<ul> <li>Student entering the University with the highest admission average 1 award of \$1,500</li> </ul>	
	der Chancellor's Scholarship [E0493]	
	ips of \$26,000 (\$6,500 annually) plus the opportunity for a summ	
former Lieutena enhance student University of Gu be made by each be the President (a) the school's outlined in the m each fall. High s	bonour Lincoln Alexander, Chancellor of the University of Guelph a ant Governor of Ontario, on his 80th birthday. They are intended diversity and are amongst the most prestigious entrance awards at t aleph. Students cannot apply directly for this award. Nominations mu- high school. Each high school can nominate one student who can 's Scholarship nominee. The nomination process is a two-part proce nomination and (b) the student's supporting documentation. This laterial sent to each high school in Canada from the University of Guel chools must submit the complete application (both parts) directly to t trar, Student Financial Services by Feb. 1.	
Donor(s):	Many Donors	
	Entering students of academic distinction who are Aboriginal, perso with a disability or members of a racial minority, and who have ma significant contributions to their schools and communities and demonstrated the potential to become leaders in society. Financial ne may be taken into consideration.	
Amount:	2 awards of \$26,000	
McArthur-Humphries Scholarship [E0183]		
awarded to stud	e Wilhelmina McArthur-Humphries Trust Fund. This scholarship ents entering any undergraduate degree program and are based on t on average. Application not required.	
Donor(s):	Wilhelmina McArthur-Humphries Trust Fund	
Qualification(s).	<ul> <li>Students entering semester 1 with a minimum 75% admission average Preference will be given to those students from Lanark and Wellingt</li> </ul>	
	Counties. 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 oth county.	

#### 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards, receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

#### Donor(s): Paul and Aileen Clarke

 Qualification(s):
 Students with a minimum 80% average with a record of leadership and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

 Amount:
 1 award of \$12,000

#### President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

#### Donor(s):

A number of President's Scholarships have been named in honour of the following people and/or donors:

#### Dick Brown

Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1968 to 1988.

#### 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): Entering students of academic distinction who have made significant
	contributions to their schools and communities and demonstrate the
	potential to become leaders in society.
Amount:	12 awards of \$26,000

#### The 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. Apply by letter to Student Financial Services by April 1.

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

Qualification(s): I	In the first instance, the award will be given to an entering student
	coming from the Grand River Polytechnical Institute (GRPI) and who
ł	has received the highest cumulative average in the Native University
1	Access Program. If there is no entering student in any one year, the
s	scholarship will be awarded to the in-course student who is a graduate
(	of the GRPI who has the highest cumulative average at the University.
Amount:	1 award of \$900

#### University of Guelph Entrance Scholarships [E0291]

This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall\_current\_merit.shtml. Application not required.

#### Donor(s): University of Guelph

Qualification(s):	Studen	ts ente	ring th	eir f	ïrst y	ear	of pos	st-se	ecor	ıdar	y s	studies	for the	e first
	time ar	nd have	e a min	imu	ım 85	5% :	admis	sioi	n av	erag	ge.			

#### Amount: Several awards ranging in value from \$2,000 to \$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. Application not required.

#### Donor(s): University of Guelph Faculty Association

Qualification(s):	Student entering an undergraduate degree program at the University
	of Guelph with the highest admission average who has been a resident
	in the County of Wellington during the previous twelve months.
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 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

#### **Entrance Scholarships with Financial Need**

#### Bill Klopp Memorial Award [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 May 1. 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).

Donor(s): Ross and Mary Lou Klopp

Qualification(s):	Presented to a student entering semester 1 from the cities of Kitchener
	or Waterloo who has demonstrated involvement in extracurricular
	activities who has shown satisfactory academic performance and who
	has financial need.
Amount:	1 award of \$500

#### Devine Family Scholarship [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. 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 entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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 \$25,000 (payable over 4 years of study)

#### Registrar's Entrance Scholarships [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 (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 May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.

#### Donor(s): University of Guelph

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic merit.
Amount:	500 awards of \$2,000

#### 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 (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 May 1. ACCESS AWARD

#### Donor(s): Rol-Land Farms

Qualification(s)	: Outstanding entering undergraduate degree students 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

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### Donor(s): University of Guelph

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

#### **Entrance Awards with Financial Need**

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

Donor(s):	Harvey Graham, O.A.C. '39
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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. Students who have applied to the University of Guelph will receive an application form.

#### 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 of \$1,000, Several awards of \$3,000

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

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

#### In-course Scholarships

# Bill Taylor Memorial Scholarship [I0280] Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by April 1. 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

 CFRU Volunteer Award [10215]

 Apply to the CFRU Board of Governors by April 30.

 Demondary

 Station Manager CFPU

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 Sc	holarship [I0424]
of the University campus. The app	e Silver Anniversary celebrants to commemorate the 25th anniversary Class of 1970. This award rotates among all six colleges on the main propriate College Award Committee selects the candidate each Fall candidate is announced each October. Application 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

College of Physical Engineering Science Academic Scholarship [I0073]	Dr. James Linders Scholarship [10559]	
Application 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	Provided by the Department of Computing and Information Science, these scholarships are awarded in the Fall semester to students in a Computing and Information Science degree program that achieved the highest and second highest averages in Year 3 Computing and Information Science core courses. Application not required. <i>Donor(s):</i> Department of Computing and Information Science	
recently. <i>Amount:</i> 2 awards of \$250	Qualification(s): Undergraduate students in a Computing and Information Science (CIS) degree program who have completed from 15.0 to 17.5 course credits and have taken the CIS core courses required for Year 3.	
College of Physical Engineering Science Graduation Prize [C0075]	Amount: 1 award of \$500, 1 award of \$300	
The winner will be selected in May from all students who have completed the program in the previous twelve months. Application not required. One award of \$250 and a	Dr. Mary McLeish Scholarship [10560]	
<ul> <li>commemorative plaque.</li> <li>Donor(s): College of Physical and Engineering Science</li> <li>Qualification(s): Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.</li> <li>Amount: 1 award of \$250, 1 Commemorative plaque</li> <li>College of Physical Engineering Science Scholarship [10076]</li> <li>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</li> </ul>	Provided by the Department of Computing and Information Science, these scholarship are awarded in the Fall semester to students in a Computing and Information Science degree program that achieved the highest and second highest averages in Year Computing and Information Science core courses. Application not required.         Donor(s):       Department of Computing and Information Science Qualification(s):         Undergraduate students in a Computing and Information Science (CIS degree program who have completed from 5.0 to 7.5 course credits and have taken the CIS core courses required for Year 1.         Amount:       1 award of \$500, 1 award of \$300	
and Engineering Science program. Application not required.	Dr. Ted Swart Scholarship [10561]	
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	Provided by the Department of Computing and Information Science, these scholarships are awarded in the Fall semester to students in a Computing and Information Science degree program that achieved the highest and second highest averages in Year 2 Computing and Information Science core courses. Application not required.	
Collins Barrow Award [10040]	Donor(s): Department of Computing and Information Science	
Offered by Collins Barrow, a national firm of Chartered Accountants. Awarded in the Winter semester. Application not required.         Donor(s):       Collins Barrow Chartered Accountants         Qualification(s):       Student with the highest grade in course BUS*3330, Intermediate	Qualification(s): Undergraduate students in a Computing and Information Science (CIS)       degree program who have completed from 10.0 to 12.5 course credits and have taken the CIS core courses required for Year 2.         Amount:       1 award of \$500, 1 award of \$300	
Accounting, in the Fall semester. In the event of a tie, the scholarship	E.B. MacNaughton Convocation Prize [C0171]	
will be given to the student with the highest cumulative average in their program.         Amount:       1 award of \$500	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 not required. One award of a plaque-mounted	
David F. Boyes Apiculture Scholarship [I0031]	medal and \$250.	
Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application not required. <i>Donor(s):</i> <b>The Apiculture Club</b> <i>Qualification(s):</i> Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture (ENVB*2210) in the previous	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	
year, demonstrates an interest in apiculture and who has participated	Governor General's Medal [C0044]	
in extracurricular activities.	Established by the Office of the Governor General of Canada. Application not required.	
Amount:       1 award of \$150         Deans' Scholarships [I0323]         Offered by the Board of Governors. Recipients will be selected by each of the College Awards Committees. Winners will be notified in the Fall semester. Application not	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:       1 Silver medal	
required.	International Undergraduate Scholarship [10577]	
Donor(s):       Board of Governors         Qualification(s):       Students registered in any degree program. The primary academic criteria is placement on the Deans' Honours List for two consecutive semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M. program, in the previous Fall/Winter/Summer sequence.         Amount:       150 awards of \$1,000	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 April 1, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment	
Dr. Charles Capstick Graduation Prize [C0558]	Form (N.A.F.) for International Students form. This award can only be held once by the	
<ul> <li>Provided by the Department of Computing and Information Science, these scholarships are awarded in May to students who have completed an undergraduate degree in a Computing and Information Science program and have achieved the highest and second highest cumulative averages at graduation. Application not required.</li> <li>Donor(s): Department of Computing and Information Science Qualification(s): Students who have completed an undergraduate degree in Computing and Information Science (CIS) in the previous twelve months.</li> <li>Amount: 1 award of \$500, 1 award of \$300</li> </ul>	student.       International Student Organization (ISO)         Qualification(s):       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	

John Eccles Scholarship [I0093]	Leonard Conolly Exchange Student Scholarship [10446]	
Nominations, accompanied by appropriate resumes, are to be submitted to Student Financial Services by April 1.	Established by students, faculty, staff and friends to honour Prof. Leonard Conolly professor of drama, Chair of the Department of Drama, 1981-88, and Associated and the statement of Drama, 1981-88, and Associated and the statement of Drama and the statement of Dr	
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	Vice-President Academic, 1988-1992. Apply to the Centre for International Program by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by th Centre for International Programs, will be based on assessment of (a) a one-pag- submission describing the significance of the student visiting Guelph to the program study at the partner exchange university (b) two faculty references of one-page eac and (c) consistent high performance in the course work completed, as documented by transcript of program grades to date, submitted by the home university.	
paid members of Interhall Council and Hall Councils are not eligible.Amount:1 award of \$600	Donor(s):         Students, staff, faculty and friends of Dr. Leonard Connolly	
Kenneth W. Hammond Award [I0045]	<i>Qualification(s)</i> : Full-time visiting exchange undergraduate or graduate student, registered at Guelph for at least one semester, from any country in the semester of the semistive of the semistine of the semistive of the semistive of	
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	Amount:       1 award of \$1,000	
and Engineering Science and the Dean of Biological Science. Application not required. <i>Donor(s):</i> Kenneth W. Hammond	Marion McKenzie Prizes for Outstanding Achievement in History [10470]	
Double(s).       Remetric 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	These prizes have been established in memory of Marion McKenzie (1905-1994) teacher who had a love of learning and a continuing curiosity about the world both p and present. These are awarded to the top student in each of the required core cours in the History program (HIST*1010, HIST*2450, HIST*2602). Application not require	
Kip Hunter Prize [I0139]	Donor(s): TBA	
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 the end of the 12th week of the Winter semester.	Qualification(s): The recipient for HIST*1010 must have completed no more than 5. credits; the recipient for HIST*2450, no more than 10.0 credits and 1 in the history program; and the recipient for HIST*2602, no more that 10.0 credits.         Amount:       3 awards of \$250	
Donor(s): Faculty, students and staff of the Philosophy Department	Priscilla and Stanford Reid Trust Prize [10597]	
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	Established in honour the first chair of the History Department, Stanford Reid, and h wife, Priscilla Reid to acknowledge the best paper written about the history	
Lambda Foundation Scholarship in LBGT Studies [10591]	Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of t paper and a covering letter including contact information to the Department of Histor	
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.	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         Stephanie Wilken Volunteer Award [I0449]         Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply	
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.	Student Financial Services with letter indicating the kind and extent of volunteer activiti at the Wellness Centre by October 1. Selection committee is the Senate Committee Awards on the recommendation of the Student Wellness Educator at the Wellness Centre	
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	Donor(s):       Bev and Darlene Wilken         Qualification(s):       Student registered in any undergraduate degree program, who has be a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in a courses to date and volunteer work at the Wellness Centre.         Amount:       1 award of \$1,000	
Lange and Prokipcak Chemistry Scholarship [10528]	The Jack and Lillian MacDonald Scholarship [E0379]	
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. Application not required.	Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonal Vice-President, Academic, of the University of Guelph from 1986 to 1995, hav established a scholarship that recognizes their commitment to increasing the accessibili of post-secondary education to aboriginal persons. Apply by letter to Student Financi Services by April 1.	
Donor(s):         Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues           Qualification(s):         Student in C.P.E.S. with the highest average grade in	Donor(s):         Jack and Lillian MacDonald           Qualification(s):         In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and will be given to an entering student coming from the G	
CHEM*1040,1050 and 2700 who has completed a minimum of 10.0 credits up to a maximum of 14.75 credits. Amount: 1 award of \$1,000	has received the highest cumulative average in the Native Universi Access Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a gradua of the GRPI who has the highest cumulative average at the Universi	
	Amount: 1 award of \$900	
	Thomas H. Peters Scholarship [10233]	
	Application not required.	
	Donor(s):         Friends and associates of Thomas H. Peters           Qualification(s):         Student in any academic program of the University who has complet courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with minimum 10.0 credits completed. Applicants must have a minimur of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.	

1 award of \$250

Toronto Distric	t Beekeeper's Association Scholarship [I0285]	C.P.E.S. Dean's	S Scholarship - ACCESS [I4527]	
	offered by the Toronto District Beekeepers Association in memory of		n the assistance of the Ontario government's OSOTF program. Apply	
the late Hugh M	cLeod, past chair of the Association. Application not required.		I Financial Need Assessment Form (N.A.F.) to Student Financial Services	
Donor(s):	Mr. Jack Robinson		tudents will be considered for this award automatically once a N.A.F ted by the deadline date. Awarded in the Winter semester. This award	
Qualification(s).	The recipient will have good academic standing, have participated in		e only. ACCESS AWARD	
	extracurricular activities, and demonstrated a keen interest in beekeeping.	Donor(s):	Established by a number of industrial, commercial and public sector	
Amount:	1 award of \$500		corporations	
United Steelwor	kers Local 4120 Scholarship [I0293]	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%	
Apply to Studen	t Financial Services, by January 31.		cumulative average is required. Additionally, students must meet the	
Donor(s):	United Steelworkers LU4120		government-mandated terms for receipt of an OSOTF award (see	
	Student who is a member or former member, or who is from the		General Statements on Awards).	
	immediate family of a member of United Steelworkers LU 4120, and	Amount:	1 award of \$750	
	who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester. If there is more than one eligible candidate, the		175th Anniversary Scholarship [I0515]	
	award will go to the one who has attained the highest relative class		dership gift from the City of Guelph and donations from business and	
	standing in his or her previous full-time semester, provided that a		ers, this scholarship was established in 2002. Apply to Student Financial letter describing volunteer activities and extracurricular activities, a	
	minimum of 70% standing is obtained.		ncial Need Assessment Form (N.A.F.), and two reference letters not to	
Amount:	1 award of \$1,000		s in length from individuals familiar with the volunteer and/or community	
-	l Van Der Hoeven Memorial Scholarship [10296]		tions by Oct. 7. Selection will include equally weighted consideration of	
	be made by nominations signed by 4 currently registered students		mance, leadership both on and off campus and financial need. This	
	Ident Financial Services by April 1. Presentations are made in the Fall	award may be h	•	
semester.	Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven	Donor(s): Qualification(s)	The Guelph Community Foundation : Students registered in any degree program with more than 5.0 credits	
Donor(s):	& family	Quanfication(s)	and less than 10.5 credits of full-time study, a minimum cumulative	
Qualification(s).	Students that have completed a minimum of 2.0 credits, but not more		70% average, demonstrated leadership and financial need. Applicants	
	than 7.5 in the Winter term in any degree program who have obtained		must be graduates of a City of Guelph high school and be Canadian	
	a minimum of 70% standing. Selection will be made on the basis of		citizens or permanent residents at the time of application.	
	participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative.	Amount:	1 award of \$2,000	
Amount:	2 awards of \$400		ughton C.P.E.S. ACCESS Scholarships [I4172]	
W.C. Winegard	Medal [C0311]		riends, faculty, staff, alumni and students of the University to honour ghton, former head of the Department of Physics and founding Dean of	
	gard Medal is the most prestigious graduating award of the University	the College of Physical and Engineering Science, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment		
	student will be nominated by each College Awards Committee. The			
	Committee will make the final selection and the medal will be awarded		o Student Financial Services by October 7. Students will be considered	
	n June. Application not required.		utomatically once a N.A.F has been submitted by the deadline date.	
Donor(s):	The Board of Governors' of the University		Winter semester. ACCESS AWARD.	
Qualification(s).	Graduating student who excels both academically and in extracurricular activities.	Donor(s): Qualification(s)	Earl B. MacNaughton : Students currently registered in the final year of an honours program	
Amount:	1 Gold medal	Qualification(s)	in the College of Physical and Engineering Science with high academic	
W.N. Vaughan	Medal [C0299]		standing, demonstrated financial need, and who have completed a	
_	lidates will be nominated by Senators and the medal winner will be		minimum of 15.0 credits. Additionally, students must meet the	
-	mittee selected by the Striking Committee. The medal will be awarded		government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	
at Convocation i	n June. Application not required.	Amount:	2 awards of \$1,000	
Donor(s):	Friends of Walter N. Vaughan	Eleanor Morga	n & Bill Archibald Scholarships [I4540]	
Qualification(s).	Student senator who has high academic standing and who has made a	_	eanor and Bill Archibald, with the assistance of the Ontario government's	
	substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.		n, provide this scholarship in memory of their parents. Apply with a	
Amount:	1 Medal	*	ncial Need Assessment Form (N.A.F.) and a letter outlining community	
		involvement to S		
	holarships with Financial Need	ACCECC AWA	Student Financial Services by October 7. Awarded in the Winter semester.	
r	holarships with Financial Need	ACCESS AWA	RD.	
3M Canada Sch	olarships [I0564]	Donor(s):	RD. The Family of Eleanor & Bill Archibald	
<b>3M Canada Sch</b> Provided by 3M	olarships [10564] [ Canada. Apply to Student Financial Services by October 7 with a	Donor(s):	RD. <b>The Family of Eleanor &amp; Bill Archibald</b> : Students registered in any program with a minimum of 5.0 credits who	
<b>3M Canada Sch</b> Provided by 3N completed Finar	<b>tolarships [I0564]</b> [ Canada. Apply to Student Financial Services by October 7 with a cial Need Assessment Form (N.A.F.). Students will be considered for	Donor(s):	<ul> <li>RD.</li> <li>The Family of Eleanor &amp; Bill Archibald</li> <li>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</li> </ul>	
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<b>3M Canada Sch</b> Provided by 3M completed Finar this award autom in the Winter sen Donor(s): Qualification(s):	<ul> <li>iolarships [10564]</li> <li>I Canada. Apply to Student Financial Services by October 7 with a cial Need Assessment Form (N.A.F.). Students will be considered for atically once a N.A.F has been submitted by the deadline date. Awarded nester.</li> <li>3M Canada Company</li> <li>Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</li> </ul>	Donor(s): Qualification(s) Amount: Erin Demers M The family and who was tragica her memory. Ap Need Assessme Residence Assiss Donor(s):	RD. The Family of Eleanor & Bill Archibald : 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). 1 award of \$1,000 <b>Itemorial Scholarship [I0406]</b> friends of Erin Demers, a first-year student at the University of Guelph Ily killed in a car accident in 1996, have established this scholarship in ply to Student Financial Services by April 1 with a completed Financial nt Form (N.A.F.), along with one supporting reference letter from a tant, Residence Manager, or Residence Officer. Family and friends of Erin Katrina Demers : A student who has resided in an on-campus residence during the first	
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<b>3M Canada Sch</b> Provided by 3M completed Finar this award autom in the Winter sen Donor(s): Qualification(s):	<ul> <li>iolarships [10564]</li> <li>I Canada. Apply to Student Financial Services by October 7 with a cial Need Assessment Form (N.A.F.). Students will be considered for atically once a N.A.F has been submitted by the deadline date. Awarded nester.</li> <li>3M Canada Company</li> <li>Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</li> </ul>	Donor(s): Qualification(s) Amount: Erin Demers M The family and who was tragica her memory. Ap Need Assessme Residence Assiss Donor(s):	RD. The Family of Eleanor & Bill Archibald : 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). 1 award of \$1,000 <b>temorial Scholarship [10406]</b> friends of Erin Demers, a first-year student at the University of Guelph lly killed in a car accident in 1996, have established this scholarship in ply to Student Financial Services by April 1 with a completed Financial nt Form (N.A.F.), along with one supporting reference letter from a tant, Residence Manager, or Residence Officer. Family and friends of Erin Katrina Demers : 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)	

Euclid-Hitachi Scholarships [I4517]	Jay Majithia Scholarship [14518]	
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. Awarded in the Winter semester. 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	<ul> <li>Provided to honour Professor Jay Majithia, in recognition of his support and leadershi while a faculty member in the Department of Computing and Information Science, b Margaret Middleton, C.P.E.S. '86 with the assistance of the Ontario government's OSOT program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Studer Financial Services by October 7 and if applicable, attach a letter stating research interest and involvement. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Donor(s): Mrs. Margaret L. Middleton</li> <li>Qualification(s): Computer and Information Science students with demonstrated financia need who have a minimum cumulative program average of 70%. Preference will be given to eligible students who are applying for, o participating in, departmental research, including a special project or program of the students of the students who are applying for.</li> </ul>	
George A. Gray O.A.C. '51 Varsity Scholarships [I0487]	an independent study option. Additionally, students must meet the	
Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Apply to Student Financial Services with a letter describing	government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).           Amount:         2 awards of \$500	
on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your	Tara Lynn Giuliani Memorial Award [I0375]	
N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial need. Preference will be given to members of the varsity football team. Examples of leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation on university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the	In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindnes stand in the way of her studies at the University of Guelph. Apply to the Centre for Students with Disabilities by November 25. Donor(s): The Giuliani Family Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Amount: 1 award of \$500	
winter semester.	University of Guelph Retiree Association Degree Scholarship [10569]	
Donor(s):       Mrs. George A. Gray         Qualification(s):       Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have demonstrated leadership.         Amount:       2 awards of \$1,250	This bursary is available to students who are related to a member of the U.G.R.A. a child, grand-child, or great grand-child. Selection will be based on the greates demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of an relationship to the U.G.R.A. member.	
Graham Family Incentive Scholarship [I4506]	Donor(s): University of Guelph Retirees Association (U.G.R.A.)	
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. Awarded in the Winter semester. ACCESS AWARD	Qualification(s): Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need.         Amount:       1 award of \$1,000	
Donor(s): Harvey Graham O.A.C. '39	William & Nona Heaslip Scholarship [10589]	
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	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.	
Guelph Varsity Athletic Accessibility Scholarship [10518]	Donor(s):         The William and Nona Heaslip Foundation           Qualification(s):         Students that have completed 4.0 credits but no more than 6.0 credits	
Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the survey of the time.	<i>Amount:</i> 2 awards of \$15,000 <b>In-course Awards with Financial Need</b>	
award up to four times. Awarded in the winter semester.         Donor(s):       Alumni and friends of the University of Guelph	Bette Stephenson Accessibility Bursary [I3054]	
<i>Qualification(s):</i> Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0)	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	

 Donor(s):
 University of Gueph

 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]	Guelph Compassionate Health Bursary [I3061]
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. Awarded in the Winter semester. 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	This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately. Donor(s): Student Health and Dental Plan Reserve Qualification(s): Students must be registered on the University of Guelph Student Health Plan. The student must require treatment for a condition not currently
Burnbrae Farms Bursaries [13525]	or completely covered by the Student Health Plan.
Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF	Amount:         Several varies to a maximum \$1,000           Current:         Structure:         ACCESS Remarking [12550]
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. 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):       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	Guelph Student Assistance ACCESS Bursaries [13556]         These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Typically, awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Central Student Association
Class of '72: 25th Reunion Bursaries [I3512]	Qualification(s): Full-time undergraduate students registered in any degree program
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.	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]
has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	These bursaries have been established and approved by undergraduate students through
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	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.
Elizabeth Burton Bursaries [13503]	Typically, awarded in the Winter semester. Donor(s): Undergraduate Students
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	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
by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	Helen Mahon Memorial Bursary [13063]
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	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 indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter. <i>Donor(s):</i> Family and Friends of Helen Mahon
Gryphon Investment Council Bursaries [I3513]	<i>Qualification(s):</i> Students registered in any program who come from a family where
Established by Gryphon Investment Counsel, with the assistance of the Ontario	one parent is deceased.           Amount:         1 award of \$500
government's OSOTF program. Awarded in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.	Howard and Myrtle Rogers Bursaries [13537]
Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. 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): Gryphon Investment Council Inc.	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. Awarded in the Winter semester. ACCESS AWARD
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	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 OSOTE award (see General Statements on Awards)

10 up to \$2,000

receipt of an OSOTF award (see General Statements on Awards).

International Emergency Medical Aid Assistance [I3059]	Ron Scriver Memorial Bursary [13547]
The University of Guelph provides support to International undergraduate students that	Established in memory of Mr. Ron Scriver (1946 - 32005) C.P.E.S. B.A. '76, to honour
are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not	his outstanding 32-year career with the Ontario Universities' Application Centre and his
covered by UHIP or the Student Dental/Medical insurance plans. Students should apply	extensive involvement with colleagues throughout the University system. Preference
to the International Student Advisor, in the Centre for International Programs office, by	will be given to students registered in the Bachelor of Computing Science Program.
completing an International Student Financial Need Assessment Form (N.A.F.) and	Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this sword outproticelly once a NAE bas been
submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.	<ol> <li>Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</li> </ol>
Donor(s): University of Guelph	
<i>Qualification(s):</i> Any International student registered in a degree program at the	Donor(s):         Family and Friends of Ron Scriver           Qualification(s):         Students registered in any program offered by C.P.E.S. with
University of Guelph with a minimum registration of 1.50 course	demonstrated financial need. Additionally, students must meet the
credits.	government-mandated terms for receipt of an OTSS award (see General
Amount: Several awards of varying amounts	Statements on Awards).
International Student Bursaries [I3009]	Amount: 1 award of \$1,500
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the	Scotiabank Bursaries [I3532]
International Student Advisor.	Established by Scotiabank, with the assistance of the Ontario government's OSOTF
Donor(s): Mrs. Norma L. Valeriote	program, to assist students with financial need to continue their studies as full-time
Qualification(s): Students who are citizens of Third World countries, as defined by the	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
United Nations, who are registered in a degree or diploma program	considered for this award automatically once a N.A.F has been submitted by the deadline
Amount: and who demonstrate financial need.	date. Awarded in the Winter semester. ACCESS AWARD.
	Donor(s): Scotiabank
Irvine and Grace Black Memorial Bursary [I3051]	<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally,
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 breader, was a	students must meet the government-mandated terms for receipt of an
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	OSOTF award (see General Statements on Awards).
active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial	Amount: 2 awards of \$1,500
Services with a completed Financial Need Assessment Form (N.A.F.) and a letter	University of Guelph Access Bursaries [13522]
outlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded	Provided by alumni and friends of the University, with the assistance of the Ontario
in the Winter semester.	government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) diploma students who wish to study full-time but who need financial support to do so.
Donor(s): Family and friends of Irvine and Grace B.L.A.ck	Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial
<i>Qualification(s):</i> Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants	Services by October 7. Students will be considered for this award automatically once a
who are, or have been, active in the 4-H Club and/or a Women's	N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS
Institute.	AWARD. Variable amounts from \$500 to \$2,000
Amount: 1 award of \$500	Donor(s): Alumni and Friend of the University of Guelph
Mary I. Whitelock Bursaries [I3524]	<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an
Established by the estate of Mary I. Whitelock, a friend of the University, with the	OSOTF award (see General Statements on Awards).
assistance of the Ontario government's OSOTF program, to assist students who wish to	Amount: Several awards of \$500, Several awards of \$2,000
study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form $(N \land F)$ to Student Financial Services by October 7. Students	
Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students	University of Guelph Alumni Association Access Bursaries [I3523]
Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the	University of Guelph Alumni Association Access Bursaries [I3523] Established by the University of Guelph Alumni Association, with the assistance of the
Need Assessment Form (N.A.F.) to Student Financial 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.	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
Need Assessment Form (N.A.F.) to Student Financial 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): Estate of Mary I. Whitelock	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
Need Assessment Form (N.A.F.) to Student Financial 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.	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
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University of Guelph International Bursary [I3048]	Arthur D. Latornell Undergraduate Travel Grants [T0058]
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. <i>Donor(s):</i> University of Guelph <i>Qualification(s):</i> Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course	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 1 for Fall 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.
credits. Amount: Several varies	Donor(s):         The Estate of Arthur D. Latornell           Qualification(s):         Students in semester 3 and above. Students must have at least a 70%
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. Awarded in the Winter semester.         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 and a minimum of 2.0 course credits completed.         Amount:       Several awardsranging in value from \$100 to \$3,000	Qualification(s): Students in seniester 5 and above. Students must have at least a 70% average and a primary area of interest 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 of Jerusalem Travel Bursary [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 by letter with a
University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [13047]	completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by
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. Awarded in the Winter semester.         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 and a minimum of 2.0 course credits completed.         Amount:       Several awards to a maximum of \$800	May 1. 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, Masters students in the first year of study, and Doctoral students in the first three years of study are eligible to be considered. 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
University Police Bursaries [I3019]	approvals for a "Letter of Permission" prior to applying. Additionally,
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 and graduate students who have financial need.         Amount:       Several of various amounts	OSOTF award (see General Statements on Awards).           Amount:         3 Awards with varying amounts           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 Eiteneid Services with a description of the travel
University Student Assistance Program [I3057]	Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month
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. Typically, awarded in the Winter semester.         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).	prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. 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
Amount: Several awards of various amounts to a maximum of \$1,000	University of Guelph Travel Scholarships [T0421]
In-course Travel Grants	The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to undergraduate and graduate students
Aeroplan International Travel Grant [T0604]	who wish to study outside of Canada but need financial support to do so. Preference will
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year. Donor(s): Aeroplan Qualification(s): Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation in University of Guelph travel activities related to their academic program. Preference will be given to students participating in the	be given to students participating in the London Semester. Students may only receive this travel grant once per degree. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. <i>Donor(s):</i> <b>University of Guelph</b> <i>Qualification(s):</i> Registered undergraduate and graduate students that have completed 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study are eligible to apply. The value of the award will depend on the assessed financial need. The scholarship can cover additional costs of travelling outside of Canada including: airfare,
semester abroad or academic exchanges.       Amount:     1 plane ticket per each semster	administrative costs, and differential costs of accommodation. Amount: Several up to \$1,500

# **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**

## 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 not required. Two awards of \$1,250 paid in two installments of \$625.

william B. Lowe and Amos E	dgar Lowe
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 Qualification(s):
 Student entering any of the undergraduate degree programs of the Ontario Agricultural College.

 Amount:
 2 awards of \$1,250

#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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

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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:	4 awards of \$7,000

## 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

#### Donor(s): Board of Governors

 Qualification(s):
 Outstanding students entering semester 1

 Amount:
 25 awards of \$8,000

# 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):	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	

	ey Scholarship [E0034]	
	nemory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and forme	
•	in the former School of Food Agriculture and Resource Economics and	
	cation to a graduate student from any of the O.A.C. Diploma program	
	f the University of Guelph campuses that enters a degree program at the	
University of G	buelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the	
main 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. Preference will be given to Graduates of the	
	Diploma in Agriculture program.	
Amount:	1 award of \$1,200	
Elite Swine En	trance Scholarship [E0532]	
This award is	provided by Elite Swine Inc. to assist students entering an O.A.C	
	Program. High schools will forward nominations to the O.A.C. Award	
Donor(s):	Elite Swine Inc.	
· · ·	): High school graduates who have applied to O.A.C. undergraduate	
Qualification(s	programs, based on admission average, contributions to their school	
	and communities and on their potential to become leaders in society	
	Preference will be given to students with a strong interest in animal	
	science, particularly swine production.	
Amount:	5 awards of \$1,000	
Gordon W. In	nes Scholarship [E0140]	
Application not		
	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstoc	
Donor(s):	Agricultural Society.	
Oualification(s	): Student from Oxford County with the highest admission average.	
Amount:	1 award of \$1,400	
International S	Student Entrance Scholarships [E0408]	
	University's strategic direction of internationalism, entrance scholarship	
	ach Fall semester to the top international students entering their first	
	undergraduate degree program at the University of Guelph. Applicant	
	relevant documentation for admission consideration by March 1 to b a scholarship. These scholarships are awarded on a competitive basis	
Application not		
	*	
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 achievemen	
	and extracurricular involvement, and studying full-time. This award	
A	is offered for the first year of study. Several awards ranging in value from \$500 - \$6,000	
Amount:		
	an Scholarship [E0170]	
Provided by the	e family of J.D. MacLachlan. Application not required.	
Donor(s):	The J.D. MacLachlan Trust	
Qualification(s	): Student entering the University with the highest admission average.	
Amount:	1 award of \$1,500	
Lincoln Alexaı	nder Chancellor's Scholarship [E0493]	
	hips of \$26,000 (\$6,500 annually) plus the opportunity for a summe	
	nship after the first year of study (approximately \$6,000 stipend) wer	
	nonour Lincoln Alexander, Chancellor of the University of Guelph an	
	ant Governor of Ontario, on his 80th birthday. They are intended t	
	enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations mus	
be made by eac	the high school. Each high school can nominate one student who cannot	
	t's Scholarship nominee. The nomination process is a two-part process	
(a) the school's		
	s nomination and (b) the student's supporting documentation. This is	
outlined in the r	s nomination and (b) the student's supporting documentation. This is naterial sent to each high school in Canada from the University of Guelp	
outlined in the r each fall. High	s nomination and (b) the student's supporting documentation. This is naterial sent to each high school in Canada from the University of Guelp schools must submit the complete application (both parts) directly to the	
outlined in the r each fall. High Associate Regis	s nomination and (b) the student's supporting documentation. This is naterial sent to each high school in Canada from the University of Guelp schools must submit the complete application (both parts) directly to the strar, Student Financial Services by Feb. 1.	
outlined in the r each fall. High Associate Regis Donor(s):	s nomination and (b) the student's supporting documentation. This i naterial sent to each high school in Canada from the University of Guelph schools must submit the complete application (both parts) directly to the	

Donor(s):	Many Donors
Qualification(s):	Entering students of academic distinction who are Aboriginal, persons
	with a disability or members of a racial minority, and who have made
	significant contributions to their schools and communities and
	demonstrated the potential to become leaders in society. Financial need
	may be taken into consideration.
Amount:	2 awards of \$26,000

#### McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.

Donor(s):	Wilhelmina McArthur-Humphries Trust Fund	
Qualification(s):	Students entering semester 1 with a minimum 75% admission average.	
	Preference will be given to those students from Lanark and Wellington	
	Counties. 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.	
Amount:	12 awards 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

	· · · · · · · · · · · · · · · · · · ·
Donor(s):	Paul and Aileen Clarke
Qualification(s):	Students with a minimum 80% average with a record of leadership
	and community participation are eligible. Preference will be given to
	candidates from Blenheim district or Kent County and who were raised,
	or have worked, on a farm. Students may be contacted to provide
	special need circumstances if there is a short list of equal candidates.
Amount:	1 award of \$12,000

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

## Donor(s): A number of President's Scholarships have been named in honour of the following people and/or donors: Dick Brown

Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1968 to 1988.

#### 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): Entering students of academic distinction who have made significant contributions to their schools and communities and demonstrate the potential to become leaders in society.

 Amount:
 12 awards of \$26,000

#### 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 undergraduate or graduate student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application not required.

#### Donor(s): Mrs. Helen Quinn (O.A.C. '35)

( - ) -	
Qualification(s):	Entering semester one of an O.A.C. program to an undergraduate or
	graduate 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

The Jack and Lillian MacDonald Scholarship [E0379]	Devine Family Scholarship [E4542]
The 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. Apply by letter to Student Financial Services by April 1.         Donor(s):       Jack and Lillian MacDonald         Qualification(s):       In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University. Amount: 1 award of \$900         University of Guelph Entrance Scholarships [E0291]         This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the	On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. 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. <i>Donor(s):</i> Mr. Peter J. Devine <i>Qualification(s):</i> Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. Preference will be
Fall and Winter Semesters. You can view the scholarship amounts at:         http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required.         Donor(s):       University of Guelph	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 \$25,000 (payable over 4 years of study)
<i>Qualification(s):</i> Students entering their first year of post-secondary studies for the first time and have a minimum 85% admission average.	Registrar's Entrance Scholarships [E0384]
Amount: Several awards ranging in value from \$2,000 to \$3,000	Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment
University of Guelph Faculty Association Scholarship [E0292]	identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from
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. Application not required. <i>Donor(s):</i> <b>University of Guelph Faculty Association</b> <i>Qualification(s):</i> Student entering an undergraduate degree program at the University of Guelph with the highest admission average who has been a resident in the County of Wellington during the previous twelve months.	<ul> <li>Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.</li> <li>Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit.</li> <li>Amount: 500 awards of \$2,000</li> </ul>
Amount: 1 award of \$2,250	Rol-Land Farms Scholarships [E4519]
<ul> <li>W. Penri Morris Memorial Scholarship [E0430]</li> <li>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 not required.</li> <li>Donor(s): Prof. Rosalina Morris</li> <li>Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario.</li> <li>Amount: 1 award of \$1,000</li> </ul>	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 (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 May 1. ACCESS AWARD Donor(s): Rol-Land Farms Qualification(s): Outstanding entering undergraduate degree students 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 Scholarships with Financial Need	University of Guelph Accessibility Scholarship [E3038]
Bill Klopp Memorial Award [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 May 1. 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).         Donor(s):       Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has financial need.         Amount:       1 award of \$500	<ul> <li>Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).</li> <li><i>Donor(s):</i> University of Guelph <i>Qualification(s):</i> Students entering a full-time undergraduate program on the basis of financial need and academic excellence.</li> <li><i>Amount:</i> 150 awards of \$9,000</li> </ul>

## **Entrance Awards with Financial Need**

## 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

D	onor(s):	W. Roy Hindle and family
Q	ualification(s):	An entering O.A.C. degree student who has demonstrated financial
		need. Additionally, students must meet the government-mandated
		terms for receipt of an OSOTF award (see General Statement on
		Awards).
A	mount:	1 award of \$6,000

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

Donor(s):	Harvey Graham, O.A.C. '39	
Qualification(s):	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. Students who have applied to the University of Guelph will receive an application form.

#### University of Guelph Donor(s):

Qualification(s):	Students on a student visa entering an undergraduate degree program
	at the University of Guelph with demonstrated financial need.
Amount:	Several awards of \$1,000, Several awards of \$3,000

### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

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

#### **In-course Scholarships**

#### Bill Taylor Memorial Scholarship [10280]

Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by April 1.

#### 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

	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

Amount:

1 award of \$1,400

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Blackburn Scho	larshin [10404]
	on of the 125th Anniversary of the Ontario Agricultural College, D
	retired faculty member of the former Rural Extension Studies progra
	tor of the Associate Diploma Program has established this scholarshi
· ·	citing athletic contributions, to the O.A.C. Awards Committee by Apr
1.	
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 leadersh
	will be used to determine the recipient.
Amount:	1 award of \$500
	age Garden Foundation Scholarship [10551]
	Ieritage Garden Foundation provides this scholarship to a stude
0	dscape Architecture that has demonstrated creativity and excellence
	Examples might include heritage, residential, ecological, park an
	plore pest control issues. Preference will be given to students with a
interest in roses.	Application not required.
Donor(s):	The Canadian Heritage Garden Foundation
( )	Students registered in Landscape Architecture who have completed
2	10.5 credits.
Amount:	1 award of \$1,000
	ty of Landscape Architects Prize - B.L.A. [C0136]
Application not 1	
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 contribute
	to the School and the profession.
Amount:	1 award of \$500
CFRU Voluntee	r Award [10215]
	RU 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 an
	volunteer work at CFRU.
Amount:	2 awards of \$250
Charles McGow	an Memorial Prize [C0187]
Established in me	mory of the late Lieutenant Charles McGowan. Application not require
	Charles McGowan Memorial Fund
Donor(s):	
	Outstanding graduating student in an O.A.C. degree program.
Amount:	1 award of \$300
Class of '51 O.A	.C. Leadership Awards [C0063]
Established by Y	ear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion
of the O.A.C. Aw	ards Committee students may be selected before graduation. Application
not required.	
Donor(s):	Year '51 O.A.C.
( )	Students graduating from the degree program in a major in an O.A.
Quanjication(s):	department who have a 70% standing in the final year of study and
	who have demonstrated leadership in the College or University
	extracurricular activities.
Amount:	5 awards of \$2,000
Class of '67 O.A	.C. Centennial Scholarship [10067]
Apply to Student	Financial Services by April 1.
Donor(s):	Class of O.A.C. '67
	Student majoring in an O.A.C. department who through activity in a
2	branches of college life as well as scholastic achievement has made
	an outstanding contribution to the University.
Amount:	1 award of \$1,000
	holarship [I0424]
	e Silver Anniversary celebrants to commemorate the 25th anniversa
	Class of 1970. This award rotates among all six colleges on the ma
	propriate College Award Committee selects the candidate each Fa
semester and the	candidate is announced each October. Application not required.
Donor(s):	Class 1970: 25th Reunion Gift
	Outstanding student in any degree program who has attained at least
zaungicunom(s).	an 80% average in two consecutive semesters resulting in placement
	on the Deans' Honours List.
A	1 award of \$1.400

Clayton and Dorothy Switzer Scholarships [I0276]	International Undergraduate Scholarship [10577]
Apply by April 1 to Student Financial Services.	Established through a student referendum approved by the undergraduate student body,
Donor(s): Clayton and Dorothy Switzer	to recognize international students' academic merit along with involvement/leadership
<i>Qualification(s):</i> One to a student who has completed semester 2 of the Diploma in	activities during their enrollment at the University of Guelph. Financial need will be
Agriculture program and one to a student who has completed semester	considered only in the event of a tie. Apply to Student Financial Services, by April 1,
4 of a degree program in O.A.C. Recipients will have a minimum of	with a letter indicating involvement/extracurricular activity since entry to the University,
70% standing and have demonstrated outstanding leadership ability	two academic and/or professional references, and a completed Financial Need Assessment
in O.A.C. student organizations, class executives and College Royal.	Form (N.A.F.) for International Students form. This award can only be held once by the
Amount: 1 award of \$2,000	student.
David F. Boyes Apiculture Scholarship [I0031]	Donor(s):         International Student Organization (ISO)           Qualification(s):         Full-time International students (defined as those paying full
Established in memory of David Boyes a technician in the Apiculture Field Laboratory.	international students (defined as those paying fun international student tuition without exemption), who have completed
Application not required.	at least 4.0 course credits from the University of Guelph with a
Donor(s): The Apiculture Club	minimum cumulative average of 75%, and is registered at the time of
Qualification(s): Student registered in the Fall semester who achieves high academic	application.
standing in Introductory Apiculture (ENVB*2210) in the previous	Amount: 1 award of \$1,000
year, demonstrates an interest in apiculture and who has participated	
in extracurricular activities.	John Eccles Scholarship [10093]
Amount: 1 award of \$150	Nominations, accompanied by appropriate resumes, are to be submitted to Student
Deans' Scholarships [10323]	Financial Services by April 1.
	Donor(s): Student Housing Services
Offered by the Board of Governors. Recipients will be selected by each of the College	<i>Qualification(s):</i> Full-time student registered in semester 2, 3, 4, 5 or 6 and living in
Awards Committees. Winners will be notified in the Fall semester. Application not	residence in the Winter semester who has a cumulative 80% average
required.	or who is in the top 10% of his/her program. The recipient must have
Donor(s): Board of Governors	demonstrated responsibility and leadership qualities through
<i>Qualification(s):</i> Students registered in any degree program. The primary academic	participation in residence related activities. Residence Life Staff and
criteria is placement on the Deans' Honours List for two consecutive	paid members of Interhall Council and Hall Councils are not eligible
semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.	Amount: 1 award of \$600
Amount: 150 awards of \$1,000	Kenneth W. Hammond Award [I0045]
DMG Scholarship [I0428]	The evaluation of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the final essay in the "Environmental Description of the student will be based on the student wil
Established by DMG Landscape Architects, Burnaby, B.C. Application not required.	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 not required.
Donor(s): DMG Landscape Architects	
Qualification(s): B.L.A. student who has completed semester 4 with a minimum 75%	Donor(s): Kenneth W. Hammond
cumulative average and demonstrated outstanding ability in landscape	<i>Qualification(s):</i> Student who has best demonstrated an understanding of the world's
design.	resource situation and its proper use by humankind.
Amount: 1 award of \$1,000	Amount: 1 award of \$1,000
Garden Club of Toronto Scholarship [I0109]	Kip Hunter Prize [I0139]
Apply to Associate Registrar, Student Financial Services by April 1.	For the best essay, written by an undergraduate in a philosophy course. The essay may
Donor(s): The Garden Club of Toronto	be either a required assignment for a course (in which case either the student or the
<i>Qualification(s):</i> Student who has completed semester 6 of the program in Landscape	instructor may submit it) or it may be specially prepared for the competition. Submission
Architecture. The recipient will have high academic standing and	of essays is to the Chair, Department of Philosophy, by the end of the 12th week of the
avhibit a strong interest in organizated about motorials	
exhibit a strong interest in ornamental plant materials.	Winter semester.
Amount: 1 award of \$1,000	Donor(s): Faculty, students and staff of the Philosophy Department
	Donor(s):         Faculty, students and staff of the Philosophy Department           Qualification(s):         Any undergraduate who has registered for a philosophy course during
Amount: 1 award of \$1,000	Donor(s):Faculty, students and staff of the Philosophy DepartmentQualification(s):Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.
Amount: 1 award of \$1,000 Governor General's Medal [C0044]	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
Amount:       1 award of \$1,000         Governor General's Medal [C0044]         Established by the Office of the Governor General of Canada. Application not required.         Donor(s):       The Chancellery         Qualification(s):       Restricted to those undergraduate students in any degree program who	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]
Amount:       1 award of \$1,000         Governor General's Medal [C0044]         Established by the Office of the Governor General of Canada. Application 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	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
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	hitecture Alumni Scholarships [10329]	Oxford County Pork Producers Scholarship (Degree) [I0531]
Provided by the	Alumni of the School of Landscape Architecture. Students, faculty or	The Oxford County Pork Producers have made available this scholarship. Apply to
	ninate eligible students to the School of Landscape Architecture by	O.A.C. Awards Committee by April 1 with a letter of up to two pages in length includin
October 30.		information about leadership, community involvement and pork industry involvement
Donor(s):	Landscape Architecture Alumni	Donor(s): Oxford County Pork Producers
Qualification(s):	Students enrolled in the B.L.A. program who have just completed	<i>Qualification(s):</i> Any student who has completed a minimum of 5.0 credits in an O.A.C
	either semester 2 or 6. The recipient(s) will be selected on the basis of	degree program with a minimum cumulative average of 70%, pork
	academic performance and participation and leadership in extracurricular activities.	production background or interest in pork production/industry, and demonstrated leadership and/or community involvement. Preference
Amount:	1 award of \$1,000	will be given to students from Oxford County or surrounding area.
	y Exchange Student Scholarship [10446]	Amount: 1 award of \$1,000
	students, faculty, staff and friends to honour Prof. Leonard Conolly,	Priscilla and Stanford Reid Trust Prize [10597]
	ama, Chair of the Department of Drama, 1981-88, and Associate	Established in honour the first chair of the History Department, Stanford Reid, and hi
Vice-President A	Academic, 1988-1992. Apply to the Centre for International Programs	wife, Priscilla Reid to acknowledge the best paper written about the history of
	siting during the subsequent Fall or Winter semesters. Selection, by the	Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of th
	national Programs, will be based on assessment of (a) a one-page	paper and a covering letter including contact information to the Department of Histor
	ribing the significance of the student visiting Guelph to the program of ner exchange university (b) two faculty references of one-page each,	Awards Chair.
• •	It high performance in the course work completed, as documented by a	Donor(s): Priscilla and Stanford Reid Trust Fund
	gram grades to date, submitted by the home university.	<i>Qualification(s):</i> Any student submitting an essay on the history of Presbyterianism
Donor(s):	Students, staff, faculty and friends of Dr. Leonard Connolly	and/or Reformed tradition. Amount: 1 award of \$500
( )	Full-time visiting exchange undergraduate or graduate student,	
~ ,	registered at Guelph for at least one semester, from any country in the	Stephanie Wilken Volunteer Award [I0449]
	South (a list of eligible countries and exchange partner universities is	Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Einancial Services with latter indicating the kind and extent of volunteer activitie
	available in the Centre for International Programs).	Student Financial Services with letter indicating the kind and extent of volunteer activitie at the Wellness Centre by October 1. Selection committee is the Senate Committee o
Amount:	1 award of \$1,000	Awards on the recommendation of the Student Wellness Educator at the Wellness Centre
	larships [10064]	Donor(s): Bev and Darlene Wilken
Provided by the	class of O.A.C. '55. Apply to Student Financial Services by April 1.	Qualification(s): Student registered in any undergraduate degree program, who has bee
Donor(s):	0.A.C. '55	a volunteer for at least two semesters at the Wellness Centre. The
Qualification(s):	Students who are registered in any O.A.C. degree program or students	recipient will be selected on the basis of academic performance in a
	enrolled in the B.ENG. program and have completed semester 4. Recipients will have made an outstanding contribution to College life	Amount: 1 award of \$1,000
	through academic proficiency and participation in extracurricular	
	activities and can be considered to have done the most for the College,	The Jack and Lillian MacDonald Scholarship [E0379]
	for fellow students and in their personal development. Recipients must	Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
	have a 70% minimum cumulative average.	Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility
Amount:	1 award of \$2,000	of post-secondary education to aboriginal persons. Apply by letter to Student Financia
O.A.C. Centenr	ial Graduate Fellowships [C0209]	Services by April 1.
-	ricultural College celebrated its 100th Anniversary in 1974. Many	Donor(s): Jack and Lillian MacDonald
	d companies associated with the agricultural industry provided funds	<i>Qualification(s):</i> In the first instance, the award will be given to an entering student
·	ith the Centennial activities. Funds have been established in perpetuity	coming from the Grand River Polytechnical Institute (GRPI) and wh
as a permanent Financial Service	commemoration of the Centennial of the College. Apply to Student	has received the highest cumulative average in the Native University
	• •	Access Program. If there is no entering student in any one year, the
Devery		and a standard and the second state of a second state of the secon
Donor(s):	Dean, O.A.C.	1
	Students graduating from a degree program administered by the Ontario	of the GRPI who has the highest cumulative average at the University
		of the GRPI who has the highest cumulative average at the University           Amount:         1 award of \$900
	Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [I0233]
	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 are eligible for these fellowships. The fellowship will be based on academic achievement in semesters 7 and	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [I0233]         Application not required.
	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 are eligible for these fellowships. The fellowship will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [10233]         Application not required.         Donor(s):       Friends and associates of Thomas H. Peters
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 are eligible for these fellowships. 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.	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [10233]         Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete
Qualification(s): Amount:	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 are eligible for these fellowships. 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. 2 awards of \$2,200	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [10233]         Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with
Qualification(s): Amount: <b>O.A.C. Student</b>	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 are eligible for these fellowships. 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. 2 awards of \$2,200 <b>s' Federation Medal [C0217]</b>	Thomas H. Peters Scholarship [I0233]           Application not required.
Qualification(s): Amount: O.A.C. Students Application not	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 are eligible for these fellowships. 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. 2 awards of \$2,200 <b>'Federation Medal [C0217]</b> required.	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [10233]         Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete 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.
Qualification(s): Amount: O.A.C. Students Application not a Donor(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 are eligible for these fellowships. 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. 2 awards of \$2,200 <b>c' Federation Medal [C0217]</b> required. <b>O.A.C.</b>	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [10233]         Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete 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
Qualification(s): Amount: O.A.C. Students Application not a Donor(s):	<ul> <li>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 are eligible for these fellowships. 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.</li> <li>2 awards of \$2,200</li> <li><b>' Federation Medal [C0217]</b></li> <li>required.</li> <li><b>O.A.C.</b></li> <li>Graduating student in an undergraduate degree program in a major in</li> </ul>	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900         Thomas H. Peters Scholarship [10233]         Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete 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.
Qualification(s): Amount: O.A.C. Students Application not r Donor(s):	<ul> <li>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 are eligible for these fellowships. 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.</li> <li>2 awards of \$2,200</li> <li><b>S' Federation Medal [C0217]</b></li> <li>required.</li> <li>O.A.C.</li> <li>Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student</li> </ul>	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900 <b>Thomas H. Peters Scholarship [I0233]</b> Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with 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 <b>Toronto District Beekeeper's Association Scholarship [I0285]</b>
Qualification(s): Amount: O.A.C. Students Application not n Donor(s): Qualification(s):	<ul> <li>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 are eligible for these fellowships. 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.</li> <li>2 awards of \$2,200</li> <li><b>' Federation Medal [C0217]</b></li> <li>required.</li> <li><b>O.A.C.</b></li> <li>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.</li> </ul>	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900 <b>Thomas H. Peters Scholarship [I0233]</b> Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with 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 <b>Toronto District Beekeeper's Association Scholarship [I0285]</b>
Qualification(s): Amount: O.A.C. Students Application not i Donor(s): Qualification(s): Amount:	<ul> <li>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 are eligible for these fellowships. 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.</li> <li>2 awards of \$2,200</li> <li>s' Federation Medal [C0217]</li> <li>required.</li> <li>O.A.C.</li> <li>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.</li> <li>1 Medal</li> </ul>	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900 <b>Thomas H. Peters Scholarship [I0233]</b> Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with 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 <b>Toronto District Beekeeper's Association Scholarship [I0285]</b> A scholarship is offered by the Toronto District Beekeepers Association in memory of the topological and the topologic
Qualification(s): Amount: O.A.C. Students Application not a Donor(s): Qualification(s): Amount: Ontario Associa	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 are eligible for these fellowships. 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. 2 awards of \$2,200 <b>s' Federation Medal [C0217]</b> required. <b>O.A.C.</b> 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. 1 Medal <b>tion of Landscape Architects Scholarship [I0219]</b>	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900 <b>Thomas H. Peters Scholarship [I0233]</b> Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with 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. I award of \$250 <b>Toronto District Beekeeper's Association Scholarship [I0285]</b> A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application not required. Donor(s):         Mr. Jack Robinson
Qualification(s): Amount: O.A.C. Students Application not a Donor(s): Qualification(s): Amount: Ontario Associa Application not a	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 are eligible for these fellowships. 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. 2 awards of \$2,200 <b>s' Federation Medal [C0217]</b> required. <b>O.A.C.</b> 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. 1 Medal <b>tion of Landscape Architects Scholarship [I0219]</b> required.	of the GRPI who has the highest cumulative average at the University         Amount:       1 award of \$900 <b>Thomas H. Peters Scholarship [I0233]</b> Application not required.         Donor(s):       Friends and associates of Thomas H. Peters         Qualification(s):       Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with 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 <b>Toronto District Beekeeper's Association Scholarship [I0285]</b> A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application not required.         Donor(s):       Mr. Jack Robinson         Qualification(s): The recipient will have good academic standing, have participated i extracurricular activities, and demonstrated a keen interest in
Qualification(s): Amount: O.A.C. Students Application not n Donor(s): Qualification(s): Amount: Ontario Associa Application not n Donor(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 are eligible for these fellowships. 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. 2 awards of \$2,200 <b>s' Federation Medal [C0217]</b> required. <b>O.A.C.</b> 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. 1 Medal <b>tion of Landscape Architects Scholarship [I0219]</b> required. <b>The Ontario Association of Landscape Architects</b>	of the GRPI who has the highest cumulative average at the University Amount: 1 award of \$900           Thomas H. Peters Scholarship [I0233]           Application not required.           Donor(s):         Friends and associates of Thomas H. Peters           Qualification(s):         Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.           Amount:         1 award of \$250           Toronto District Beekeeper's Association Scholarship [I0285]           A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application 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.
Qualification(s): Amount: O.A.C. Students Application not n Donor(s): Qualification(s): Amount: Ontario Associa Application not n Donor(s):	<ul> <li>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 are eligible for these fellowships. 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.</li> <li>2 awards of \$2,200</li> <li><b>s' Federation Medal [C0217]</b></li> <li>required.</li> <li><b>O.A.C.</b></li> <li><b>Oraduating 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.</b></li> <li>1 Medal</li> <li><b>tion of Landscape Architects Scholarship [I0219]</b></li> <li>required.</li> <li><b>The Ontario Association of Landscape Architects</b></li> <li>• Student who has completed semester 5 of the B.L.A. program. The</li> </ul>	of the GRPI who has the highest cumulative average at the University Amount: 1 award of \$900           Thomas H. Peters Scholarship [I0233]           Application not required.           Donor(s):         Friends and associates of Thomas H. Peters           Qualification(s):         Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.           Amount:         1 award of \$250           Toronto District Beekeeper's Association Scholarship [I0285]           A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application 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
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144		IX. Scho
United Steelwor	kers Local 4120 Scholarship [I0293]	City of Guelph 175th
Donor(s): Qualification(s): Amount:	t Financial Services, by January 31. <b>United Steelworkers LU4120</b> 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. 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, provided that a minimum of 70% standing is obtained. 1 award of \$1,000	Funded by a leadership community leaders, this Services with a letter completed Financial Ne exceed two pages in leng service contributions by academic performance award may be held only <i>Donor(s):</i> <b>The G</b> <i>Qualification(s):</i> Stude and It
	l Van Der Hoeven Memorial Scholarship [10296]	70% a
	be made by nominations signed by 4 currently registered students ident Financial Services by April 1. Presentations are made in the Fall	must citize Amount: 1 awa
Donor(s):	Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family	Eleanor Morgan & B
Qualification(s): Amount:	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. 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. 2 awards of \$400	The family of Eleanor a OSOTF program, prov completed Financial N involvement to Student ACCESS AWARD. Donor(s): The F
Vera Bezeredy 1	Memorial B.L.A. Design Scholarship [I0480]	Qualification(s): Stude
Bezeredy. The r community desig Donor(s): Qualification(s):	has been provided in memory of the first female O.D.H. graduate, Vera recipient will be the student who has demonstrated an aptitude for gn. Application not required. <b>O.D.H. Graduates Association</b> 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 aw Erin Demers Memori The family and friends who was tragically kill
Amount:	1 award of \$450	her memory. Apply to
	k Medal [C0265] Il be based on the recommendation of the faculty in the School of	Need Assessment For
Donor(s): Qualification(s): Amount:	<ul> <li>itecture. Application not required.</li> <li>Victor Chanasyk</li> <li>Graduating Bachelor of Landscape Architecture student who, in the view of the faculty, is deemed to be the most promising professional practitioner.</li> <li>1 Medal</li> </ul>	Donor(s): Famil Qualification(s): A stu seme awar of stu finan
W.C. Winegard		Amount: 1 aw
of Guelph. One Senate Awards C at Convocation i Donor(s):	gard Medal is the most prestigious graduating award of the University student will be nominated by each College Awards Committee. The Committee will make the final selection and the medal will be awarded n June. Application not required. <b>The Board of Governors' of the University</b> Graduating student who excels both academically and in extracurricular activities. 1 Gold medal	Euclid-Hitachi Schola Established by Euclic government's OSOTF studies as full-time stu- (N.A.F.) to Student Fin ACCESS AWARD Donor(s): Eucli
W.N. Vaughan		Qualification(s): Stude
Prospective can chosen by a com at Convocation i Donor(s): Qualification(s): Amount:	<ul> <li>didates will be nominated by Senators and the medal winner will be mittee selected by the Striking Committee. The medal will be awarded n June. Application not required.</li> <li>Friends of Walter N. Vaughan</li> <li>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.</li> <li>1 Medal</li> </ul>	dema gove Gene Amount: 2 aw
	holarships with Financial Need	
Provided by 3M completed Finan this award autom in the Winter ser		
Donor(s): Qualification(s): Amount:	<ul> <li>3M Canada Company</li> <li>Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</li> <li>2 awards of \$1,000</li> </ul>	

#### nniversary Scholarship [I0515] gift from the City of Guelph and donations from business and scholarship was established in 2002. Apply to Student Financial escribing volunteer activities and extracurricular activities, a ed Assessment Form (N.A.F.), and two reference letters not to th from individuals familiar with the volunteer and/or community Oct. 7. Selection will include equally weighted consideration of leadership both on and off campus and financial need. This once. elph Community Foundation ts registered in any degree program with more than 5.0 credits ss than 10.5 credits of full-time study, a minimum cumulative verage, demonstrated leadership and financial need. Applicants e graduates of a City of Guelph high school and be Canadian s or permanent residents at the time of application. d of \$2,000 Archibald Scholarships [I4540] d Bill Archibald, with the assistance of the Ontario government's de this scholarship in memory of their parents. Apply with a ed Assessment Form (N.A.F.) and a letter outlining community Financial Services by October 7. Awarded in the Winter semester. mily of Eleanor & Bill Archibald nts registered in any program with a minimum of 5.0 credits who umulative 70% average, has demonstrated community ement, and financial need. Additionally, students must meet the ment-mandated terms for receipt of an OSOTF award (See al Statements on Awards). d of \$1,000

#### Scholarship [I0406]

of Erin Demers, a first-year student at the University of Guelph d in a car accident in 1996, have established this scholarship in tudent Financial Services by April 1 with a completed Financial (N.A.F.), along with one supporting reference letter from a sidence Manager, or Residence Officer.

#### 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

#### ships [I4517]

Hitachi of Canada Ltd., with the assistance of the Ontario ogram, to assist students with financial need to continue their ents. Apply with a completed Financial Need Assessment Form ancial Services by October 7. Awarded in the Winter semester.

#### 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

### George A. Gray O.A.C. '51 Varsity Scholarships [1048'

Established in memory of George Gray, O.A.C. '51, a Gu great player of the game. Apply to Student Financial Service on- and off-campus extra-curricular activities and a complete Form (N.A.F.) by October 7. To be considered for this aw N.A.F. and include a statement outlining your leadership include equally weighted consideration of academic perform need. Preference will be given to members of the varsity leadership may include academic tutoring, mentoring to organization and promotion of varsity and/or intramura university committees, such as in residences, on Senate

Donor(s):	Mrs. George A. Gray
- • · · ·	Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have demonstrated leadership.
Amount:	2 awards of \$1,250
	Incentive Scholarship [14506]
OSOTF program.	ey Graham (O.A.C. '39) with the assistance of the Ontario government'. Apply with a completed Financial Need Assessment Form (N.A.F. ial Services by October 7. Awarded in the Winter semester. ACCESS
Donor(s):	Harvey Graham O.A.C. '39
	Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financia need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms fo receipt of an OSOTF award (see General Statements on Awards).
Amount:	1 award of \$5,000
Guelph Varsity A Apply to Studen	Athletic Accessibility Scholarship [10518] nt Financial Services with a letter describing on and off-campu
Guelph Varsity A Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfo	Athletic Accessibility Scholarship [10518] at Financial Services with a letter describing on and off-campu activities and a Financial Need Assessment Form (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate which play on. Selection will be based upon equally weighted consideration prmance and evidence of leadership qualities. Students may receive the
Guelph Varsity A Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfo award up to four	Athletic Accessibility Scholarship [10518] It Financial Services with a letter describing on and off-campu ctivities and a Financial Need Assessment Form (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate which play on. Selection will be based upon equally weighted consideration prmance and evidence of leadership qualities. Students may receive the times. Awarded in the winter semester.
Guelph Varsity A Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfo award up to four Donor(s): Qualification(s):	Athletic Accessibility Scholarship [10518] It Financial Services with a letter describing on and off-campu ctivities and a Financial Need Assessment Form (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate which play on. Selection will be based upon equally weighted consideration ormance and evidence of leadership qualities. Students may receive the times. Awarded in the winter semester. Alumni and friends of the University of Guelph Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financia need. Students must have maintained at least a 70% cumulative averagg in all courses completed in the previous year of study (minimum 3.0
<b>Guelph Varsity</b> Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfo award up to four <i>Donor(s):</i> <i>Qualification(s):</i>	Athletic Accessibility Scholarship [10518] Athletic Accessibility Scholarship [10518] Athletic Accessibility Scholarship [10518] Athletic Accessibility Scholarship [10518] Athletic Accessibility Scholarship (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate which play on. Selection will be based upon equally weighted consideration ormance and evidence of leadership qualities. Students may receive the times. Awarded in the winter semester. Alumni and friends of the University of Guelph Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financia need. Students must have maintained at least a 70% cumulative averagg in all courses completed in the previous year of study (minimum 3.0 credits).
Guelph Varsity A Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfo award up to four Donor(s): Qualification(s): Amount:	Athletic Accessibility Scholarship [10518]         nt Financial Services with a letter describing on and off-campu citivities and a Financial Need Assessment Form (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate which play on. Selection will be based upon equally weighted consideration ormance and evidence of leadership qualities. Students may receive the times. Awarded in the winter semester.         Alumni and friends of the University of Guelph         Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financia need. Students must have maintained at least a 70% cumulative averagi in all courses completed in the previous year of study (minimum 3.0 credits).         2 awards of \$1,250
Guelph Varsity A Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfo award up to four Donor(s): Qualification(s): Amount: R. Douglas and I	Athletic Accessibility Scholarship [10518]         nt Financial Services with a letter describing on and off-campulcivities and a Financial Need Assessment Form (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate whic play on. Selection will be based upon equally weighted consideratio ormance and evidence of leadership qualities. Students may receive th times. Awarded in the winter semester.         Alumni and friends of the University of Guelph         Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financia need. Students must have maintained at least a 70% cumulative averag in all courses completed in the previous year of study (minimum 3.0 credits).         2 awards of \$1,250         Kathleen Kennedy Scholarship in O.A.C. [10547]
Guelph Varsity A Apply to Studen extra-curricular a 7. To be consider varsity team you of academic perfor award up to four Donor(s): Qualification(s): Amount: R. Douglas and I Douglas (O.A.C. 1937 and later m campus and their 7 with a comple considered for thi date. Awarded in	Athletic Accessibility Scholarship [10518]         nt Financial Services with a letter describing on and off-campuctivities and a Financial Need Assessment Form (N.A.F.) by Octobe red for this award, you must list it on your N.A.F. and indicate whic play on. Selection will be based upon equally weighted consideratio ormance and evidence of leadership qualities. Students may receive th times. Awarded in the winter semester.         Alumni and friends of the University of Guelph         Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financia need. Students must have maintained at least a 70% cumulative averag in all courses completed in the previous year of study (minimum 3.0 credits).         2 awards of \$1,250         Kathleen Kennedy Scholarship in O.A.C. [10547]         '39) and Kathleen (MAC '39) Kennedy met at a "hop" on campus i harried. They established this scholarship to celebrate their time o 62 years of marriage. Apply to Student Financial Services by Octobe eted Financial Need Assessment Form (N.A.F.). Students will b s award automatically once a N.A.F has been submitted by the deadlin

In memory of Tara Lynn Giuliani, a bright young woman, stand in the way of her studies at the University of Gue Students with Disabilities by November 25.

#### The Giuliani Family Donor(s):

Qualification(s):	Most academically promising applicant with a demonstrated disability
	and having financial need.
Amount:	1 award of \$500

pe Architecture	145
87]	University of Guelph Retiree Association Degree Scholarship [10569]
Guelph football lineman and a rvices with a letter describing ted Financial Need Assessment tward, you must list it on your p involvement. Selection will mance, leadership and financial ty football team. Examples of team mates, assisting in the ral athletics, participation on e or in Colleges, and similar to four times. Awarded in the	<ul> <li>This bursary is available to students who are related to a member of the U.G.R.A. as child, grand-child, or great grand-child. Selection will be based on the greatest demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and relationship to the U.G.R.A. member.</li> <li>Donor(s): University of Guelph Retirees Association (U.G.R.A.)</li> <li>Qualification(s): Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need.</li> <li>Amount: 1 award of \$1,000</li> <li>William &amp; Nona Heaslip Scholarship [I0589]</li> <li>Students must apply to Student Financial Services by submitting a Financial Need</li> </ul>
eams and in the second, third, ith a minimum 70% average s year of study and have	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.
ace of the Ontario government's ed Assessment Form (N.A.F.) he Winter semester. ACCESS	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 Awards with Financial Need
our year degree program, age and demonstrating financial	Bette Stephenson Accessibility Bursary [I3054]
e Harvey Graham Bursary. overnment-mandated terms for al Statements on Awards).	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
518] escribing on and off-campus ent Form (N.A.F.) by October our N.A.F. and indicate which qually weighted consideration lities. Students may receive the uelph ss than 20.5 credits, who are	<ul> <li>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.</li> <li>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</li> </ul>
ho have demonstrated financial	Brinson Partners Inc. Bursaries [13526]
least a 70% cumulative average s year of study (minimum 3.0 A.C. [10547]	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. Awarded in the Winter semester, ACCESS AWARD.
whet at a "hop" on campus in hip to celebrate their time on Financial Services by October n (N.A.F.). Students will be been submitted by the deadline	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
R. Douglas Kennedy	Burnbrae Farms Bursaries [13525]
tudent in O.A.C. with high ed financial need.	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.) to Student Financial 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.
who did not let her blindness elph. Apply to the Centre for	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
with a demonstrated disability	receipt of an OSOTF award (see General Statements on Awards).

2 awards of \$1,500

Elizabeth	Burton	Bursaries	[13503]

Class of '72: 25t	h Reunion Bursaries [I3512]	Elizabeth Burton Bursaries [I3503]	
government's OS to Student Financ by October 7. St has been submitt AWARD. Donor(s): Qualification(s):	The Class of '72: 25th Reunion Fund with the assistance of the Ontario OTF program to support students who wish to study full-time. Apply ial Services with a completed Financial Need Assessment Form (N.A.F.) udents will be considered for this award automatically once a N.A.F ted by the deadline date. Awarded in the Winter semester. ACCESS <b>Class of '72: 25th Reunion</b> 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). 3 awards of \$1,000	Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF progrovides bursaries to students with demonstrated financial need. Apply with a comprise financial Need Assessment Form (N.A.F.) to Student Financial Services by Octol Students will be considered for this award automatically once a N.A.F has been submediate by the deadline date. Awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Mrs. Elizabeth Burton         Qualification(s):       Students in second, third or fourth year with demonstrated financial terms for receipt of an OSOTF award (see General Statements or Awards).         Amount:       Several awards of up to \$2000	pleted ober 7. mitted ncial ted
Class of O.A.C.	'33 Bursaries [I3531]	Gryphon Investment Council Bursaries [I3513]	
Established by th the assistance of Financial Need A Students will be c by the deadline d Donor(s): Qualification(s):	the class of O.A.C. '33 on the occasion of their 65th Anniversary, with the Ontario government's OSOTF program. Apply with a completed assessment Form (N.A.F.) to Student Financial Services by October 7. onsidered for this award automatically once a N.A.F has been submitted late. Awarded in the Winter semester. ACCESS AWARD <b>Class of 1933 (in honour of the late Prof. WIJ. Squirrell)</b> 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). 3 awards of \$500	Established by Gryphon Investment Counsel, with the assistance of the Or government's OSOTF program. Awarded in the Winter semester. Apply with a comp Financial Need Assessment Form (N.A.F.) to Student Financial Services by Octol Students will be considered for this award automatically once a N.A.F has been subm by the deadline date. Students will be considered for this award automatically on N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACC AWARD <i>Donor(s):</i> <b>Gryphon Investment Council Inc.</b> <i>Qualification(s):</i> Full-time students with demonstrated financial need. Additional students must meet the government-mandated terms for receipt	pleted ober 7. mitted once a CESS
Class of O.A.C.	'36 Bursaries [I3501]	OSOTF award (see General Statements on Awards).	
•	e Class of O.A.C. '36 with the assistance of the Ontario government's	Amount: 2 awards of \$1,500 Guelph Compassionate Health Bursary [I3061]	
to Student Finance automatically on Winter semester. Donor(s): Qualification(s):	. Apply with a completed Financial Need Assessment Form (N.A.F.) cial Services by October 7. Students will be considered for this award ce a N.A.F has been submitted by the deadline date. Awarded in the ACCESS AWARD <b>Class of 1936</b> 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).	This bursary has been established and approved by the Student Health and D Committee to assist students up to 80% of unforeseen health needs above and be the benefits offered through the mandatory University of Guelph student health Submit a Financial Need Assessment Form (N.A.F.) accompanied by the phys recommendation, cost estimates and physician contact information to the Awards Of Student Financial Services. The application will be reviewed throughout the sen to handle emergencies immediately. <i>Donor(s):</i> <b>Student Health and Dental Plan Reserve</b>	eyond plan. vsician officer, mester
Amount:	2 awards of \$500	<i>Qualification(s):</i> Students must be registered on the University of Guelph Student H Plan. The student must require treatment for a condition not curr	
Provided in mem government's OS '73 and graduated Need Assessmen in the Winter sen Donor(s): Qualification(s): Amount:	Memorial Bursary [13534] ory of David R. Leach by his family, with the assistance of the Ontario OTF program. David entered O.A.C. in 1969 as a member of O.A.C. I with a B.Sc. in Agriculture in 1974. Apply with a completed Financial t Form (N.A.F.) to Student Financial Services by October 7. Awarded nester. ACCESS AWARD Mrs Deborah Leach-Sartor 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). 1 award of \$1,000	or completely covered by the Student Health Plan.         Amount:       Several varies to a maximum \$1,000         Guelph Student Assistance ACCESS Bursaries [13556]         These bursaries have been established and approved by undergraduate students the student referendum with the aid of the Ontario government's OTSS program to undergraduate and University of Guelph campus diploma students in financial Preference will be given to students who are not eligible for provincial and/or fe assistance programs such as Ontario Student Assistance Program (OSAP) and/or Ca Student Loan Program (CSLP). Apply to Student Financial Services with a comprise financial Need Assessment Form (N.A.F.) by October 7. Students will be consider this award automatically once a N.A.F has been submitted by the deadline Typically, awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Central Student Association	assist need. ederal anada pleted idered e date.
Donald P. Watso	on Bursaries in Horticultural Science [I4501]	Qualification(s): Full-time undergraduate students registered in any degree progra	
Established by th Ontario governn Assessment Forn considered for thi	he estate of Donald P. Watson, O.A.C.'34, with the assistance of the nent's OSOTF program. Apply with a completed Financial Need in (N.A.F.) to Student Financial Services by October 7. Students will be as award automatically once a N.A.F has been submitted by the deadline the Winter semester. ACCESS AWARD. <b>The estate of Dr. Donald P. Watson</b>	with demonstrated financial need. Additionally, students must n         the government-mandated terms for receipt of an OTSS award (         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 th	(see
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). Several awards rangining in value between \$500 and \$2,000	<ul> <li>student referendum to assist undergraduate and University of Guelph campus dip students in financial need. Preference will be given to students who are not eligib provincial and/or federal assistance programs such as Ontario Student Assistance Proc (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Fina Services with a completed Financial Need Assessment Form (N.A.F.) by Octob Typically, awarded in the Winter semester.</li> <li>Donor(s): Undergraduate Students</li> <li>Qualification(s): Full-time undergraduate students registered in any degree programithe with demonstrated financial need.</li> <li>Amount: Several awards of varying amounts up to \$1,000</li> </ul>	ole for ogram ancial ober 7.

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Gwen Karr Memorial Bursary [I3010]	Landscape Architecture ACCESS Bursaries [I4531]		
Mr. T.K.C. Karr, O.A.C. '32, has provided an endowment fund to assist students in a	Established by faculty and students in Landscape Architecture, with the assistance of		
degree or diploma program of the Ontario Agricultural College. Apply with a completed	the Ontario government's OSOTF program. Apply with a completed Financial Need		
Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.	Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be		
Students will be considered for this award automatically once a N.A.F has been submitted	considered for this award automatically once a N.A.F has been submitted by the deadline		
by the deadline date. Awarded in the Winter semester.	date. Awarded in the Winter semester. ACCESS AWARD		
Donor(s): Mr. T.K.C. Karr, O.A.C. '32	Donor(s): Faculty members and students in Landscape Architecture		
Qualification(s): O.A.C. students with demonstrated financial need	Qualification(s): Students registered in the School of Landscape Architecture with		
Amount: Several varies	demonstrated financial need and a minimum B average in the previous		
Helen Mahon Memorial Bursary [I3063]	academic year. Additionally, students must meet the		
	government-mandated terms for receipt of an OSOTF award (see		
Established in memory of Helen Mahon, a longtime employee of the University of	General Statements on Awards).		
Guelph and who, following the death of her husband, raised three young children alone,	Amount: 2 awards of \$500		
all of whom graduated from university. Apply to Student Financial Services by October	Mary I. Whitelock Bursaries [I3524]		
7 with a Financial Need Assessment Form and indicate on the N.A.F that you wish to			
be considered for this award. Awarded in the winter.	Established by the estate of Mary I. Whitelock, a friend of the University, with the		
Donor(s): Family and Friends of Helen Mahon	assistance of the Ontario government's OSOTF program, to assist students who wish to		
Qualification(s): Students registered in any program who come from a family where	study full-time but who need financial support to do so. Apply with a completed Financial		
one parent is deceased.	Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students		
Amount: 1 award of \$500	will be considered for this award automatically once a N.A.F has been submitted by the		
Howard and Myrtle Rogers Bursaries [I3537]	deadline date. Awarded in the Winter semester. ACCESS AWARD.		
	Donor(s): Estate of Mary I. Whitelock		
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario	Qualification(s): Students with demonstrated financial need. Additionally, students must		
government's OSOTF program. Apply with a completed Financial Need Assessment	meet the government-mandated terms for receipt of an OSOTF award		
Form (N.A.F.) to Student Financial Services by October 7. Students will be considered	(see General Statements on Awards).		
for this award automatically once a N.A.F has been submitted by the deadline date.	Amount: 13 awards of \$2,000		
Awarded in the Winter semester. ACCESS AWARD	O.A.C. '38 Lloyd Minshall Bursaries [13529]		
Donor(s): The Estate of Howard and Myrtle Rogers			
Qualification(s): Students with demonstrated financial need. Preference will be given	Established by O.A.C. '38 Alumni, with the assistance of the Ontario government's		
to students from Wellington County. Students are encouraged to apply	OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates		
for an award in each year of study. The award may have been held in	and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to		
previous years but students must demonstrate on-going financial need.	Student Financial Services by October 7. Students will be considered for this award		
Additionally, students must meet the government-mandated terms for	automatically once a N.A.F has been submitted by the deadline date. Awarded in the		
receipt of an OSOTF award (see General Statements on Awards).	Winter semester. ACCESS AWARD		
Amount: 10 up to \$2,000	Donor(s): O.A.C. '38 Alumni		
	Qualification(s): O.A.C. undergraduate students with demonstrated financial need in		
International Emergency Medical Aid Assistance [I3059]	semesters 5, 6, 7 or 8 and O.A.C. graduate students are eligible to		
The University of Guelph provides support to International undergraduate students that	apply. Additionally, students must meet the government-mandated		
are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not	terms for receipt of an OSOTF award (see General Statements on		
covered by UHIP or the Student Dental/Medical insurance plans. Students should apply	Awards).		
to the International Student Advisor, in the Centre for International Programs office, by	Amount: 7 awards of \$1,000		
completing an International Student Financial Need Assessment Form (N.A.F.) and			
submitting documentation to support the medical issue. These bursaries are awarded on	O.A.C. '55 Access Bursaries [I3517]		
an on-going basis.	Provided by the class of O.A.C. '55 with the assistance of the Ontario government's		
Donor(s): University of Guelph	OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.)		
Qualification(s): Any International student registered in a degree program at the	to Student Financial Services by October 7. Students will be considered for this award		
University of Guelph with a minimum registration of 1.50 course	automatically once a N.A.F has been submitted by the deadline date. Awarded in the		
credits.	Winter semester. ACCESS AWARD.		
Amount: Several awards of varying amounts	Donor(s): O.A.C. Class of '55		
	<i>Qualification(s)</i> : Students at any semester level in an O.A.C. degree program or students		
International Student Bursaries [I3009]	enrolled in the B.ENG. program with demonstrated financial need and		
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the	a 60% minimum cumulative average. Additionally, students must meet		
International Student Advisor.	the government-mandated terms for receipt of an OSOTF award (see		
Donor(s): Mrs. Norma L. Valeriote	General Statement on Awards).		
<i>Qualification(s):</i> Students who are citizens of Third World countries, as defined by the	Amount: Several awards of \$500		
United Nations, who are registered in a degree or diploma program			
and who demonstrate financial need.	O.A.C. '57 Bursaries [I3518]		
Amount: Several of varying amounts	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.)		
Irvine and Grace Black Memorial Bursary [I3051]	to Student Financial 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		
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	Winter semester. ACCESS AWARD		
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	Winter semester. ACCESS AWARD		
their many contributions to young people. Irvine, a well-known sheep breeder, was a	Winter semester. ACCESS AWARD         Donor(s):       O.A.C. '57 and the O.A.C. Alumni Foundation		
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	Winter semester. 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		
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	Winter semester. 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		
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. Awarded	<ul> <li>Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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</li> </ul>		
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. Awarded in the Winter semester.	<ul> <li>Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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).</li> </ul>		
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. Awarded in the Winter semester. <i>Donor(s):</i> Family and friends of Irvine and Grace B.L.A.ck	<ul> <li>Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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</li> </ul>		
<ul> <li>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. Awarded in the Winter semester.</li> <li>Donor(s): Family and friends of Irvine and Grace B.L.A.ck</li> <li>Qualification(s): Full-time undergraduate students registered in any degree program</li> </ul>	<ul> <li>Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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).</li> </ul>		
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<ul> <li>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. Awarded in the Winter semester.</li> <li>Donor(s): Family and friends of Irvine and Grace B.L.A.ck</li> <li>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</li> </ul>	<ul> <li>Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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).</li> </ul>		
<ul> <li>heir many contributions to young people. Irvine, a well-known sheep breeder, was a udge 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 butlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded n the Winter semester.</li> <li>Donor(s): Family and friends of Irvine and Grace B.L.A.ck</li> <li>Dualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants</li> </ul>	<ul> <li>Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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).</li> </ul>		

Amount:

1 award of 500

O.A.C. Alumni Foundation Access Bursaries [13533]	T.K. Warley Bursaries [I3510]
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.	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
Awarded in the Winter semester. ACCESS AWARD	Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.
Donor(s): O.A.C. Alumni Foundation	Awarded in the Winter semester. ACCESS AWARD.
<i>Qualification(s):</i> 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).	Donor(s):         O.A.C. Alumni Association           Qualification(s):         Students with demonstrated financial need who are in semester 5 to 8
Amount: 4 awards of \$500	of any degree program within O.A.C A minimum 65% is required,
	as is participation in student activities, governance, and/or college
Ontario Co-operatives R.P. Forshaw Bursary [I3013]	affairs. Additionally, students must meet the government-mandated
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. Awarded in the Winter semester.	terms for receipt of an OSOTF award (see General Statements on Awards).
	Amount: 3 awards of \$500
Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw	University of Guelph Access Bursaries [I3522]
<i>Qualification(s):</i> Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative	Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph)
or credit union.	diploma students who wish to study full-time but who need financial support to do so.
Amount: 1 award of \$400	Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial
Ontario Grape Growers Bursary [I3033]	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
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.	AWARD. Variable amounts from \$500 to \$2,000
Students will be considered for this award automatically once a N.A.F has been submitted	Donor(s): Alumni and Friend of the University of Guelph
by the deadline date. Awarded in the Winter semester.	Qualification(s): Full-time students with demonstrated financial need. Additionally,
-	students must meet the government-mandated terms for receipt of an
<i>Donor(s):</i> <b>The Ontario Grape Growers Action Committee</b> <i>Qualification(s):</i> Students with good academic standing in semesters 3 to 6 of a degree	OSOTF award (see General Statements on Awards).
program or semesters 3 to 4 of a diploma program administered by	Amount: Several awards of \$500, Several awards of \$2,000
O.A.C., and demonstrated need of financial assistance.	University of Guelph Alumni Association Access Bursaries [13523]
Amount: Several of various amounts	Established by the University of Guelph Alumni Association, with the assistance of the
Reid's Heritage Homes Bursaries in Landscape Architecture [I3521]	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
Established by Reid's Heritage Homes with the assistance of the Ontario government's	Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be
OSOTF program to assist students continue their studies as full-time students. Distributed	considered for this award automatically once a N.A.F has been submitted by the deadline
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	date. Awarded in the Winter semester. ACCESS AWARD.
this award automatically once a N.A.F has been submitted by the deadline date. Awarded	Donor(s): University of Guelph Alumni Association
in the Winter semester. ACCESS AWARD	<i>Qualification(s):</i> Full-time in-course students with demonstrated financial need.
Donor(s): Reid's Heritage Homes Ltd.	Additionally, students must meet the government-mandated terms for
<i>Qualification(s):</i> Full-time students in the B.L.A. or M.L.A. program with demonstrated	receipt of an OSOTF award (see General Statements on Awards).
financial need. Additionally, students must meet the	Amount: 2 awards of \$1,000
government-mandated terms for receipt of an OSOTF award (see	University of Guelph Child Care Bursaries [I3053]
General Statements on Awards).	In order to provide accessible child care to students with (a) child(ren), the University
Amount: 2 awards of \$1,500	of Guelph offers bursaries to students who have demonstrated financial need. Apply to
Robert Auger Humanitarian Bursary [13058]	Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.)
This award, of up to \$500, has been established through the generosity of staff in the	by October 7. Awarded in the Winter semester.
Office of Registrarial Services, family and friends of Robert Auger, a former Associate	Donor(s): University of Guelph
Registrar at the University of Guelph. It is intended as an emergency fund to assist	Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial
students who unexpectedly find themselves in difficult financial circumstances, to provide	need, to offset the costs of child care. To be eligible, undergraduate
grocery, and textbook vouchers.	students must be full-time (as defined by OSAP regulations) and
Donor(s): Office of Registrarial Services	Canadian citizens or permanent residents with demonstrated financial
<i>Qualification(s):</i> Students who require assistance through this fund should apply in	<i>Amount:</i> Several awards of up to \$2,000
confidence to the Assistant Registrar, Financial Aid, Student Financial	
Services.	University of Guelph International Bursary [I3048]
Amount: Several awards of \$500	The University of Guelph provides support to International undergraduate students that
Scotiabank Bursaries [I3532]	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
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	completing an International Student Financial Need Assessment Form (N.A.F.). These
students. Distributed in the Winter semester. Apply with a completed Financial Need	bursaries are awarded on an on-going basis.
Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be	Donor(s): University of Guelph
considered for this award automatically once a N.A.F has been submitted by the deadline	<i>Qualification(s):</i> Any International student registered in a degree program at the
date. Awarded in the Winter semester. ACCESS AWARD.	University of Guelph with a minimum registration of 1.50 course
Donor(s): Scotiabank	credits.
<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally,	Amount: Several varies
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 Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]	Arthur D. Latornell Undergraduate Travel Grants [T0058]
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. Awarded in the Winter semester.         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 and a minimum of 2.0 course credits completed.         Amount:       Several awardsranging in value from \$100 to \$3,000         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. Awarded in the Winter semester.         Donor(s):       University of Guelph         Qualification(s):       University of Guelph         Qualification(s):	An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who has 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, coos student exchanges or study abroad programs in these areas. Students may receive thi grant only once. Apply to Student Financial Services. Deadline dates are June 1 for Faitravel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% cestimated travel costs to a maximum of \$1,000.         Donor(s):       The Estate of Arthur D. Latornell         Qualification(s):       Students in semester 3 and above. Students must have at least a 70% average and a primary area of interest related to natural resources management, environmental science, conservation, soil science and/crural 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
Amount: Several awards to a maximum of \$800	Canadian Friends of the Hebrew University in Jerusalem Travel Bursary [T4532
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 and graduate students who have 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	Ontario government's OSOTF program, have established these travel scholarships t assist students study at the Hebrew University of Jerusalem. Apply by letter with completed Financial Need Assessment Form (N.A.F.) to Student Financial Services b May 1. 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, Masters students in the first year of study, and Doctoral student in the first three years of study are eligible to be considered. Applicant 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 Guelp approvals for a "Letter of Permission" prior to applying. Additionally students must must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Form (N.A.F.) by October 7. Typically, awarded in the Winter semester.	Amount: 3 Awards with varying amounts
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	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 persona and professional growth. Apply to the O.A.C. Awards Office by April 1 with a letter of no more than two pages, outlining the intended study program/conference/or other typ of travel opportunity, the reasons for choosing the travel program and the anticipate benefits of participation. Letters of recommendation will be considered as part of th application package. This award cannot be held with any other University of Guelp
A.W. Archibald Memorial Travel Grant [T4541]	Travel Grant.
A.W. Archibald Memorial Travel Grant [14541] 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, a travel budget, and a completed Financial Need Assessment Form (N.A.F.) by October 7. ACCESS AWARD.	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 t course study.         Amount:       1 award of up to awards of \$1,000         H.C. Mason Travel Scholarships [T0598]
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 up to \$1000	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 April 1, 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, reason 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 no tenable with other University of Guelph travel grants.
	Donor(s): Mr. F.W. Bray
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year. <i>Donor(s):</i> Aeroplan	Qualification(s):       Student who are currently registered in an Ontario Agricultural Colleg         undergraduate program with a minimum of 70% cumulative averag         who intend to participate in travel related to course study         Amount:       various awards up to \$1,500
Qualification(s): Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation in University of Guelph travel activities related to their academic program. Preference will be given to students participating in the semester abroad or academic exchanges.         Amount:       1 plane ticket per each semster	

I Poss Covers Study Abroad Scholarship [T0051]	O.A.C. '54 International Study Scholarship [T0586]
J. Ross Cavers Study Abroad Scholarship [T0051] O.A.C. '53 provides these scholarships in memory of J. Ross Cavers, their honorary year	O.A.C. '54 International Study Scholarship [T0586] Established in memory of Beth Duncan to support students participating in an exchange
member, professor emeritus, and respected poultry scientist. Apply by letter outlining	program, study abroad semester, or a field trip course. Submit a letter (of not more than
the intended semester abroad program, the reasons for choosing the program and the	two pages) outlining the intended international study program, reasons for choosing the
perceived value of participation along with a brief summary of related and extracurricular	program and the anticipated benefits of participation. Letters should also include a brief
activities to the O.A.C. Awards Office by April 1. A letter of recommendation will also	summary of extracurricular and student related activities. Letters of reference will be
be considered as part of the application package. Application should be made a maximum	considered. Apply to the O.A.C. Awards Office by April 1, no more than two semesters
of two semesters prior to participation in the intended travel program.	prior to the commencement of the program.
Donor(s): Class of O.A.C. '53	Donor(s): Class of O.A.C. '54
<i>Qualification(s):</i> Undergraduate student in O.A.C. planning to participate in a semester	<i>Qualification(s):</i> Currently registered students in O.A.C. who are Canadian citizens or
abroad program with a minimum 75% cumulative average. Preference	permanent residents with a minimum 75% cumulative program average who intend to participate in an exchange program, semester abroad,
<ul><li>will be given to a candidate who has exhibited qualities of leadership.</li><li>Amount: 3 awards of \$1,800</li></ul>	or field trip course.
	Amount: 2 awards of \$1,450
J.D. Cunningham Travel Grant [T0605]	Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by April 1 to the O.A.C. Awards Office with a letter of no	The estate of Richard and Sophia Hungerford, with the assistance of the Ontario
more than two pages outlining the intended study program, conference, or other type of	government's OSOTF program, has established an endowment to provide travel
learning opportunity. Include the reason for choosing the program and describe the	scholarships to undergraduate students with demonstrated financial need who wish to
anticipated benefits of participation. Letters of recommendation will be considered as	study in developing countries, or attend conferences on development. Apply to Student
part of the application package. Upon return from the travel opportunity, the student	Financial Services with a description of the intended travel, an estimate of the travel
must be willing to present a report to classmates and/or faculty and/or the Ontario Food	costs and a completed Financial Need Assessment Form (N.A.F.) at least one month
Protection Association.	prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel,
Donor(s): Ontario Food Protection Association	and February 1 for Summer travel. ACCESS AWARD.
<i>Qualification(s)</i> : Students currently enrolled in any O.A.C. program with a minimum	Donor(s): The Estate of Richard Hungerford
cumulative average of 75%. Preference will be given to students in	<i>Qualification(s):</i> Registered undergraduate students with demonstrated financial need
Food Science specializing in Microbiology.	who have at least a 70% cumulative average in the last 2 semesters of full time against atude on a lightly. A differently, atudents must
Amount: 1 award of \$2,000	full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award
Massey Fund Travel Scholarships [T0417]	(see General Statements on Awards).
Travel scholarships available from the Massey Fund. Not tenable with other awards that	Amount: Several awards of varying amounts to a maximum of \$1,000
support travel costs. Apply by letter outlining the study abroad/exchange program and	Robb Travel Grants [T3028]
travel costs to the O.A.C. Dean's Office by April 15.	
Donor(s): O.A.C. Awards Committee	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 April 15. Varying
<i>Qualification(s):</i> O.A.C. undergraduate students who are participating in an approved	amounts (80% of the travel costs will be covered up to \$750 per student).
study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to	Donor(s): The estate of Martha Robb
determine recipients.	<i>Qualification(s):</i> O.A.C. students who are attending another university on a Letter of
Amount: 1 award of \$750	Permission.
O.A.C. '05 Excellence Travel Grant [T0060]	Amount: Several varies
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005.	Roderick Long International Travel Grant [T0360]
Apply to the O.A.C. Awards Office by April 1 with the submission of a letter of no	Offered in memory of the late Roderick Long, O.A.C.'54. Up to eighty percent of the
longer than two pages outlining the intended study program/conference/or other type of	travel costs associate with the study outside of Canada program will be covered up to a
learning opportunity, reasons for choosing the program and the anticipated benefits of	maximum of \$1,000 per student. Application by letter should be made to the Dean O.A.C.
participation. A letter of recommendation will be considered as part of the application	by April 15, and include a description of the study abroad program. Travel grant (or
package. This grant in not tenable with other University of Guelph travel grants.	grants) totalling \$1,500.
Donor(s): Class of OAC 1905 and the Class of OAC 2005	Donor(s): Mr. Roderick W. Long
Qualification(s): Student who are currently registered in an Ontario Agricultural College	Qualification(s): O.A.C. undergraduate student who is studying outside of Canada on
undergraduate degree program and wish to travel to expand their	an approved program for one or more semesters
educational opportunities.	Amount: Several awards of \$1,500
Amount: 1 award of \$300	University of Guelph Travel Scholarships [T0421]
O.A.C. '47 Travel Bursaries [T3505]	The University of Guelph, through the sale of Guelph London House, has established
Provided by O.A.C.'47 on the occasion of its 50th anniversary and with the assistance	an endowment to provide travel scholarships to undergraduate and graduate students
of the Ontario government's OSOTF program. Apply by letter with a completed Travel	who wish to study outside of Canada but need financial support to do so. Preference will
Award Application and a Financial Need Assessment Form (N.A.F.) for Travel awards	be given to students participating in the London Semester. Students may only receive
to Student Financial Services by October 1, February 1 or June 1. ACCESS AWARD	this travel grant once per degree. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need
Donor(s): O.A.C. '47	Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June
<i>Qualification(s):</i> O.A.C. undergraduate students who have demonstrated financial need	1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.
and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the	Donor(s): University of Guelph
government-mandated terms for receipt of an OSOTF award (see	<i>Qualification(s):</i> Registered undergraduate and graduate students that have completed
General Statements on Awards).	5.0 credits with demonstrated financial need who have a minimum
Amount: 3 awards of \$600	70% cumulative average in the last two semesters of full-time
	equivalent study are eligible to apply. The value of the award will
	depend on the assessed financial need. The scholarship can cover
	additional costs of travelling outside of Canada including: airfare,
	administrative costs, and differential costs of accommodation.
	Amount: Several up to \$1,500

### **Bachelor of Science**

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

#### **Entrance Scholarships**

#### 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 not required. Two awards of \$1,250 paid in two installments of \$625.

Donor(s): William B. Lowe and Amos Edg	ar Lowe
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 Qualification(s):
 Student entering any of the undergraduate degree programs of the Ontario Agricultural College.

 Amount:
 2 awards of \$1.250

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#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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

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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:	4 awards of \$7,000

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

Donor(s):	Board of Governors
Qualification(s):	Outstanding students entering semester 1
Amount:	25 awards of \$8,000
December 6th M	lemorial Scholarship [E0005]
This scholarship,	established by the Faculty Association, is awarded in memory of the
fourteen women i	murdered in December 1989 at Ecole Polytechnique and is intended to
attract women to a	a profession that is largely comprised of men. Application 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. 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.

Amount: 1 award of \$2,250 (\$750 in each of semesters 1, 3 and 5).

D	r. C	. Jo	hn	Sma	ll Comm	onwe	ealth	Sch	ola	rship [I0611]	
-					6 D	a		a	11	0 1 0 D 0 1 110	

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

2	
	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 to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main 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. Preference will be given to Graduates of the
	Diploma in Agriculture program.
Amount:	1 award of \$1,200

#### 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. Application 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. Emphasis will be given to academic achievement in high school science and mathematics			
Amount:	4 awards of \$1,000			
Elite Swine Entrance Scholarship [E0532]				
This award	is provided by Elite Swine Inc. to assist students entering an O.A.C.			

undergraduate Program. High schools will forward nominations to the O.A.C. Awards Committee by September 15.

Donor(s): Elite Swine Inc.

Qualification(s):	High school graduates who have applied to O.A.C. undergraduate programs, based on admission average, contributions to their schools and communities and on their potential to become leaders in society. Preference will be given to students with a strong interest in animal science, particularly swine production.			
Amount:	5 awards of \$1,000			
Frederick Hutt Scholarships [E0319]				
Dr. Frederick B. Hutt, O.A.C. '23 and Professor Emeritus of Animal Genetics at Cornell University offers this scholarship. Application not required.				
Donor(s):	Dr. Frederick B. Hutt			
0 1.0 ()	Students from Wallington County entering a College of Dislogical			

ualification(s):	Students from Wellington County entering a College of Biological
	Science program with a minimum admission average of 85%.
mount	2 awards of \$700

#### Gordon McNally Memorial Award [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. Applications by students or recommendations by high school teachers should be made by letter to the Associate Registrar, Student Financial Services by April 1.

Donor(s):	Jean and Peter Gower
Qualification(s):	Students entering any undergraduate program in the College of
	Biological Sciences. The recipient will be selected on the basis of
	academic performance and demonstration of outstanding contributions
	to extracurricular activities and/or community services.
Amount:	1 award of \$500

Last Revision: January 28, 2008

Conden W I	nos Sabalanshin (E0140)	Maderthun Humphring Scholaushin (E0102)
	nes Scholarship [E0140]	McArthur-Humphries Scholarship [E0183]
Application not Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.	Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.
Qualification(s) Amount:	<i>Agreentiat a society.</i> <i>):</i> Student from Oxford County with the highest admission average. <i>1</i> award of \$1,400	Donor(s): Wilhelmina McArthur-Humphries Trust Fund
	histry Entrance Scholarship [E0130]	Qualification(s): Students entering semester 1 with a minimum 75% admission average. Preference will be given to those students from Lanark and Wellington
This scholarship	p will be awarded to the student entering the Honours Chemistry program	Counties. An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one
•	t admission average. Application not required.	county, the awards will be given to eligible applicants from the other
Donor(s): Qualification(s	<b>Faculty of the Department of Chemistry and their scholarship fund</b> ): Student entering the first semester level of the honours Chemistry	county.
Qualification(s)	program.	Amount:       12 awards of \$1,000         P.A.J. Clarke Family Scholarship [E0381]
Amount:	1 award of \$500 ematics or Statistics Scholarship [E0131]	Paul and Aileen Clarke and their family established the endowment for this entrance
	b is awarded to the student with the highest admission average. Application	scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer.
not required.	) is awarded to the student with the highest admission average. Application	Apply by letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and
Donor(s):	Faculty of the Department of Mathematics and Statistics, via the C.P.E.S.	submit to Student Financial Services by April 1. Students who have applied to the
	Scholarship Fund	University for admission will receive information on completing a Financial Need
Qualification(s,	<ol> <li>Student entering semester one of the Honours Mathematics or Statistics degree program.</li> </ol>	Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's
Amount:	1 award of \$500	Scholarship. Annual payments are contingent upon full-time enrolment and maintaining
Honours Physi	ics Scholarship [E0132]	a minimum 70% average on the previous Fall and Winter semesters. One award of
-	Department of Physics, these awards will be made based on the student's	\$12,000 (\$3,000 annually for 4 years).
admission avera	age. A minimum 85% admission average is required to be considered. required.	<i>Donor(s):</i> Paul and Aileen Clarke <i>Qualification(s):</i> Students with a minimum 80% average with a record of leadership
Donor(s):	Department of Physics	and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised.
	): Students entering the first semester level of the B.Sc. program or the	or have worked, on a farm. Students may be contacted to provide
	B.Sc. (Tech.) program with high academic standing and a declared	special need circumstances if there is a short list of equal candidates.
	intention of pursuing a major in Physics, Physics and Technology, Biophysics, Chemical Physics, or Theoretical Physics, or a Co-op	Amount: 1 award of \$12,000
	stream of these programs.	
Amount:	Several awards of \$4,000	
International S	Student Entrance Scholarships [E0408]	
* *	University's strategic direction of internationalism, entrance scholarships	
	ach Fall semester to the top international students entering their first undergraduate degree program at the University of Guelph. Applicants	
	relevant documentation for admission consideration by March 1 to be	
considered for Application not	a scholarship. These scholarships are awarded on a competitive basis. 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. MacLachl	an Scholarship [E0170]	
Provided by the	e family of J.D. MacLachlan. Application not required.	
Donor(s):	The J.D. MacLachlan Trust	
	): Student entering the University with the highest admission average.	
Amount:	1 award of \$1,500	
	nder Chancellor's Scholarship [E0493] hips of \$26,000 (\$6,500 annually) plus the opportunity for a summer	
	ins of \$26,000 (\$6,500 annually) plus the opportunity for a summer inship after the first year of study (approximately \$6,000 stipend) were	
established in h	nonour Lincoln Alexander, Chancellor of the University of Guelph and	
	ant Governor of Ontario, on his 80th birthday. They are intended to	
	t diversity and are amongst the most prestigious entrance awards at the euclph. Students cannot apply directly for this award. Nominations must	
	ch high school. Each high school can nominate one student who cannot	
	t's Scholarship nominee. The nomination process is a two-part process:	
	s nomination and (b) the student's supporting documentation. This is naterial sent to each high school in Canada from the University of Guelph	
	schools must submit the complete application (both parts) directly to the	
	strar, Student Financial Services by Feb. 1.	
Donor(s):	Many Donors	
Qualification(s)	): Entering students of academic distinction who are Aboriginal, persons with a disability or members of a regical minority, and who have made	
	with a disability or members of a racial minority, and who have made significant contributions to their schools and communities and	
	demonstrated the potential to become leaders in society. Financial need	
	may be taken into consideration.	
Amount:	2 awards of \$26,000	

#### President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

		Quantitation
Donor(s):	A number of President's Scholarships have been named in honour of the following people and/or donors: Dick Brown	2
	Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1068 to 1068.	Amount:
	University Athletics from 1968 to 1988. Cecil H. Franklin and Ingrid Franklin	Samuel Acker
	In honour of Cecil Franklin, former Chair of the Board of Governors and	This scholarsh
	Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and unlustee awards to the Desident's Entrance Scholership argement.	Donor(s):
	and volunteer support to the President's Entrance Scholarship program. Charles S. Humphrey	Qualification(s
	In memory of Charles S. Humphrey, a former President of Hart Chemical	
	Company Canada Ltd. and long-time friend, the University has named one of	
	these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President's Entrance Scholarship program.	Amount:
	Jack R. Longstaffe	The Jack and
	The University of Guelph has named one of these twelve prestigious entrance	
	awards in memory of Jack R. Longstaffe to recognize his financial contribution	Family, friend Vice-President
	through his estate to the President's Entrance Scholarship program. Burton C. Matthews	established a so
	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	of post-second Services by Ar
	in establishing the President's Entrance Scholarship program.	Donor(s):
	Kathleen and Frederick Metcalf	Qualification(
	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	Amount: University of
	University projects and programs.	This scholarsh
	Lillian Stewart Usher	calculated by A
	The University of Guelph has named one of these twelve prestigious entrance	be awarded bas
	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.	July. A minim will be applied Fall and W
Qualification(s):	Entering students of academic distinction who have made significant	http://www.uo
	contributions to their schools and communities and demonstrate the	Donor(s):
	potential to become leaders in society.	Qualification(s).
Amount:	12 awards of \$26,000	giungreanen(
Quinn Memoria	l Scholarship [E0578]	Amount:
	nemory of Ronald J. Quinn (O.A.C. '35) to an entering O.A.C. -time or exchange undergraduate or graduate student. Selection will be	University of
	ic performance, letters of reference and an assessment of the admission age. Application not required.	Award is paya provided a cur
Donor(s):	Mrs. Helen Quinn (O.A.C. '35)	payment, the re of 3 calendar y
Qualification(s):	Entering semester one of an O.A.C. program to an undergraduate or	-
		Donor(s):
Amount:	graduate international full-time student or to an international exchange student with a preference to those students from developing nations. 1 award of \$1,500	Qualification(s

#### 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. 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. Application not required.

D ()	
Donor(s):	Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson
Qualification(s)	b: Student entering the Microbiology major in the B.Sc. program with the highest admission average, providing it is a minimum of 80%. This scholarship may be held with any other awards except the Microbiolog Entrance Bursary, or any of the other Robert Orr Lawson Microbiolog Scholarships.
Amount:	1 award of \$4,000, paid in four installments of \$1,000
Samuel Acker	Memorial Scholarship [E0001]
This scholarship	p is not tenable with other Senate awards. Application not required.
Donor(s):	The trustees of the estate of the late Samuel Acker (Mr. David Acker and Mr. Abraham Acker)
	<ul> <li>Student entering the first semester level of the B.Sc. program in the College of Physical and Engineering Science. Preference may be give to students whose home residence is in either Wellington, Waterloo or Perth County.</li> <li>award of \$1,000</li> </ul>
Amount:	
	Lillian MacDonald Scholarship [E0379]
Vice-President, established a scl	s, and colleagues of Lillian MacDonald and Dr. Jack MacDonald Academic, of the University of Guelph from 1986 to 1995, hav nolarship that recognizes their commitment to increasing the accessibility ry education to aboriginal persons. Apply by letter to Student Financi- ril 1.
Donor(s):	Jack and Lillian MacDonald
Amount:	coming from the Grand River Polytechnical Institute (GRPI) and wh has received the highest cumulative average in the Native Universit Access Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a gradual of the GRPI who has the highest cumulative average at the University 1 award of \$900
inoun.	1 award 01 \$900
	Taward of \$900         Guelph Entrance Scholarships [E0291]
University of G This scholarshi calculated by A be awarded base July. A minimu will be applied Fall and Win http://www.uog	<b>Example Entrance Scholarships [E0291]</b> p is based on the final admission average and program of study that dmission Services, based on 12U, 12M, or O.A.C. courses. These wi ed on the final high school grades that are submitted to the University im 85% final admission average guarantees an award. The scholarshi directly to the student's financial account in two equal payments in the net Semesters. You can view the scholarship amounts a uelph.ca/studfin/fall_current_merit.shtml. Application not required.
University of G This scholarship calculated by A be awarded base July. A minimu will be applied Fall and Win http://www.uog Donor(s):	Fuelph Entrance Scholarships [E0291] p is based on the final admission average and program of study that dmission Services, based on 12U, 12M, or O.A.C. courses. These wi ed on the final high school grades that are submitted to the University im 85% final admission average guarantees an award. The scholarshi directly to the student's financial account in two equal payments in the nter Semesters. You can view the scholarship amounts a guelph.ca/studfin/fall_current_merit.shtml. Application not required. University of Guelph
University of G This scholarshi calculated by A be awarded base July. A minimu will be applied Fall and Win http://www.uog Donor(s): Qualification(s)	Fuelph Entrance Scholarships [E0291]         p is based on the final admission average and program of study that        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission average guarantees an award. The scholarship        dmission average guarantees an award. The scholarship        dmission average function in two equal payments in the first set of the scholarship amounts a guelph.ca/studfin/fall_current_merit.shtml. Application not required.        dmission Guelph        dmission first year of post-secondary studies for the first me and have a minimum 85% admission average.
University of G This scholarship calculated by A be awarded bass July. A minimu will be applied Fall and Win http://www.uog Donor(s): Qualification(s, Amount:	Fuelph Entrance Scholarships [E0291]         p is based on the final admission average and program of study that        dmission Services, based on 12U, 12M, or O.A.C. courses. These will         ed on the final high school grades that are submitted to the University is         m 85% final admission average guarantees an award. The scholarshid         directly to the student's financial account in two equal payments in the         nter Semesters. You can view the scholarship amounts a        duph.ca/studfin/fall_current_merit.shtml. Application not required.         University of Guelph        students entering their first year of post-secondary studies for the fir         time and have a minimum 85% admission average.         Several awards ranging in value from \$2,000 to \$3,000
University of G This scholarship calculated by A be awarded bass July. A minimu will be applied Fall and Win http://www.uog Donor(s): Qualification(s) Amount: University of G	Guelph Entrance Scholarships [E0291]         p is based on the final admission average and program of study that         idmission Services, based on 12U, 12M, or O.A.C. courses. These will         ed on the final high school grades that are submitted to the University in         85% final admission average guarantees an award. The scholarsh         directly to the student's financial account in two equal payments in the         neter Semesters. You can view the scholarship amounts a         upelph.ca/studfin/fall_current_merit.shtml. Application not required.         University of Guelph         ): Students entering their first year of post-secondary studies for the fir         time and have a minimum 85% admission average.         Several awards ranging in value from \$2,000 to \$3,000         Guelph Faculty Association Scholarship [E0292]
University of G This scholarship calculated by A be awarded bass July. A minimu will be applied Fall and Win http://www.uog Donor(s): Qualification(s, Amount: University of G Award is payab provided a cum payment, the read	Fuelph Entrance Scholarships [E0291]         p is based on the final admission average and program of study that        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission Services, based on 12U, 12M, or O.A.C. courses. These will        dmission average guarantees an award. The scholarshid        dmission average discussion average amounts a guelph.ca/studfin/fall_current_merit.shtml. Application not required.        dmission for their first year of post-secondary studies for the first time and have a minimum 85% admission average.         Several awards ranging in value from \$2,000 to \$3,000         Guelph Faculty Association Scholarship [E0292]        deat \$750 per annum in the student's 1st, 3rd, and 5th semester level nulative average of at least a 70% is maintained. To receive the fin
University of G This scholarship calculated by A be awarded bass July. A minimu will be applied Fall and Win http://www.uog Donor(s): Qualification(s, Amount: University of G Award is payab provided a cum payment, the read	Fuelph Entrance Scholarships [E0291]         p is based on the final admission average and program of study that dimission Services, based on 12U, 12M, or O.A.C. courses. These will ed on the final high school grades that are submitted to the University is m 85% final admission average guarantees an award. The scholarshi directly to the student's financial account in two equal payments in the the Semesters. You can view the scholarship amounts a quelph.ca/studfin/fall_current_merit.shtml. Application not required.         University of Guelph         D: Students entering their first year of post-secondary studies for the first time and have a minimum 85% admission average.         Several awards ranging in value from \$2,000 to \$3,000         Guelph Faculty Association Scholarship [E0292]         De at \$750 per annum in the student's 1st, 3rd, and 5th semester level nulative average of at least a 70% is maintained. To receive the fin cipient would normally be entering the 5th semester level within a period
University of G This scholarship calculated by A be awarded bass July. A minimu will be applied Fall and Win http://www.uog Donor(s): Qualification(s, Amount: University of G Award is payab provided a curr payment, the rec of 3 calendar ye Donor(s):	Fuelph Entrance Scholarships [E0291]         p is based on the final admission average and program of study that        dimission Services, based on 12U, 12M, or O.A.C. courses. These will        dimission Services, based on 12U, 12M, or O.A.C. courses. These will        dimission Services, based on 12U, 12M, or O.A.C. courses. These will        dimission Services, based on 12U, 12M, or O.A.C. courses. These will        dimission Services, based on 12U, 12M, or O.A.C. courses. These will        dimission Services, based on 12U, 12M, or O.A.C. courses. These will        dimission admission average guarantees an award. The scholarshid        dimetric final admission average guarantees an award. The scholarshid        dimetric final admission average guarantees an award. The scholarshid        dimetric final admission average guarantees an award. The scholarship amounts a guelph.ca/studfin/fall_current_merit.shtml. Application not required.        dimetric first year of post-secondary studies for the fir time and have a minimum 85% admission average.        dimetric first year of post-secondary studies for the fir time and have a minimum 85% admission average.        dimetric first year of post-secondary studies for the fir time and have a minimum 85% admission average.        dimetric first year of post-secondary studies for the fir time and have a minimum 85% admission average.        dimetric first year of post-secondary studies for the first year of post-secondary studies for the first year of post-secondary stud

W. Penri Morris Memorial Scholarship [E0430]	Gary Knechtel Memorial Scholarship [E4500]
<ul> <li>W. Penri Morris Memorial Scholarship [E0430]</li> <li>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 not required.</li> <li>Donor(s): Prof. Rosalina Morris</li> <li>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.</li> </ul>	Established by the Toronto Section of the Canadian Institute of Food Science and Technology, with the assistance of the Ontario government's OSOTF program, in memory of Gary 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 May 1. Students are encouraged to complete the online Financial Need
Amount: 1 award of \$1,000	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
W.C. Blackwood Memorial Entrance Scholarship in Physics [E0029]	admissions has been submitted by the student). ACCESS AWARD. One award of \$10,000
Application not required.	paid in installments of \$2,500 in semesters 1, 3, 5, and 7.
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	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 OSOTF award (see
Entrance Scholarships with Financial Need	General Statements on Awards). Amount: 1 award of \$10,000
Bill Klopp Memorial Award [E0150]	Kenneth O. Hammill-Blount Canada Scholarship [E4356]
<ul> <li>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 May 1. 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).</li> <li>Donor(s): Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has financial need.</li> <li>Amount: 1 award of \$500</li> <li>Devine Family Scholarship [E4542]</li> <li>On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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</li> </ul>	<ul> <li>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 (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 May 1. ACCESS AWARD.</li> <li>Donor(s): The Blount Foundation, Inc.</li> <li>Qualification(s): Students from the Province of Ontario, with demonstrated financial need, 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. 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> <li>Amount: D the Statement Statements on Statement of \$1,200</li> </ul>
Application". Deadline to submit the complete application (both parts, the E.N.A.F. and	Microbiology Entrance Scholarship [E3545]
the application) is May 1. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's	Provided through a generous bequest from the estate of Robert Orr Lawson and the
Scholarship, but can be held with all other entrance awards. ACCESS AWARD.	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
Donor(s):Mr. Peter J. DevineQualification(s):Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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 \$25,000 (payable over 4 years of study)	of \$1,000. The second to fourth payments are contingent upon obtaining a minimum average of 77%, having completed 5, 10 and 15 credits of study in the major and demonstrating continued financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. ACCESS AWARD. <i>Donor(s):</i> 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). This bursary may be held with any

other award, except any of the Robert Orr Lawson Scholarships. 1 award of \$4,000, payable in 4 annual payments of \$1,000

#### Registrar's Entrance Scholarships [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 (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 May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.

#### University of Guelph Donor(s):

Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit. 500 awards of \$2,000

Amount:

#### 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 (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 May 1. ACCESS AWARD

#### Donor(s): **Rol-Land Farms**

Qualification(s): Outstanding entering undergraduate degree students 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). 13 awards of \$2,000 Amount:

#### Sleeman Brewing Scholarships [E4267]

Established by the Sleeman Brewing and Malting Company, with the assistance of the Ontario government's OSOTF program. One award alternates between a B.Sc. student in the College of Biological Science and the College of Physical and Engineering Science (beginning with C.P.E.S. in 2000/2001); one award is available to a B.Comm. students, in a major offered by the School of Hospitality and Tourism Management. Selection is by the University Bursary Committee. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their 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 May 1. ACCESS AWARD

Donor(s):	The Sleeman Brewing & Malting Company	
Qualification(s):	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 respectively and B.Comm. students, in a major	
	offered by the School of Hospitality and Tourism Management students	
	with a minimum average of 80% in the last year of secondary school	
	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	

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### University of Guelph Donor(s):

Qualification(s):	Students entering a full-time undergraduate program on the basis of
-	financial need and academic excellence.
Amount:	150 awards of \$9,000

#### **Entrance Awards with Financial Need**

#### 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

Donor(s):	W. Roy Hindle and family
Qualification(s):	An entering O.A.C. degree student who has 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
Harvey Graham Bursary [E3030]	

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

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	In support of the University's strategic direction of internationalism, entrance hurseries	

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. Students who have applied to the University of Guelph will receive an application form.

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 of \$1,000, Several awards of \$3,000

## 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

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

#### **In-course Scholarships**

#### Alex Peepre Memorial Scholarship [I0232]

A scholarship established by friends of the late Professor Alex Peepre. In assessing student leadership, activity in student organizations, athletics, teaching assistantships, etc. will be considered. Application 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 Framed certificate

<ul> <li>supported by the Alma Mater Fund. Awarded in the Winter semester. Application not required.</li> <li>Donor(s): Dr. F.J. Sharom, Department of Biochemistry</li> <li>Qualification(s): Students with the highest grades in BIOC*3570 Analytical Biochemistry. One award will be made in each semester that the course is offered. Eligible students must be continuing in an honours major program administered by the Department of Molecular and Cellular Biology.</li> <li>Amount: 2 awards of \$400</li> <li>Analytical Toxicology Award [I0465]</li> <li>Application not required.</li> <li>Donor(s): Donor wishes anonymity</li> <li>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.</li> <li>Amount: 1 award of \$200</li> <li>Better Beef Scholarship [I0588]</li> <li>These scholarship [I0588]</li> </ul>	of the College of Biological Science, 1983-1995, a n not required. friends udent who has graduated at the completion of the r during the previous Fall or Spring semester, with tive average in the Honours Biological Sciences, am. blarship [I0450] A.C.'33) in memory of his son Bruce, a graduate of
<ul> <li>supported by the Alma Mater Fund. Awarded in the Winter semester. Application not required.</li> <li>Donor(s): Dr. F.J. Sharom, Department of Biochemistry</li> <li>Qualification(s): Students with the highest grades in BIOC*3570 Analytical Biochemistry. One award will be made in each semester that the course is offered. Eligible students must be continuing in an honours major program administered by the Department of Molecular and Cellular Biology.</li> <li>Amount: 2 awards of \$400</li> <li>Analytical Toxicology Award [I0465]</li> <li>Application not required.</li> <li>Donor(s): Donor wishes anonymity</li> <li>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.</li> <li>Amount: 1 award of \$200</li> <li>Better Beef Scholarship [I0588]</li> <li>These scholarship [I0588]</li> </ul>	n not required. friends ident who has graduated at the completion of the r during the previous Fall or Spring semester, with tive average in the Honours Biological Sciences, am. blarship [I0450] A.C.'33) in memory of his son Bruce, a graduate of nancial Services by April 1. hdation on behalf of Dr. W.H. Minshall the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree e completed semester level 6 are eligible. Interest and achievement in courses such as CROP*4240,
<ul> <li>Donor(s): Dr. F.J. Sharom, Department of Biochemistry</li> <li>Qualification(s): Students with the highest grades in BIOC*3570 Analytical Biochemistry. One award will be made in each semester that the course is offered. Eligible students must be continuing in an honours major program administered by the Department of Molecular and Cellular Biology.</li> <li>Amount: 2 awards of \$400</li> <li>Analytical Toxicology Award [10465]</li> <li>Application not required.</li> <li>Donor(s): Donor wishes anonymity</li> <li>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.</li> <li>Amount: 1 award of \$200</li> <li>Better Beef Scholarship [10588]</li> <li>There achelerships are provided to two students that have selected A CD \$400 Baccords</li> </ul>	Ident who has graduated at the completion of the r during the previous Fall or Spring semester, with tive average in the Honours Biological Sciences, am. Intervention of the Honours Biological Sciences, and achievement in courses such as CROP*4240, Intervention of the Honours Biological Sciences, Intervention of the Honours Biolo
Amount:       2 awards of \$400         Analytical Toxicology Award [I0465]         Application 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         Better Beef Scholarship [I0588]       Entry Beef Scholarship [I0588]	A.C.'33) in memory of his son Bruce, a graduate of nancial Services by April 1. <b>ndation on behalf of Dr. W.H. Minshall</b> the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree e completed semester level 6 are eligible. Interest and achievement in courses such as CROP*4240,
Analytical Toxicology Award [I0465]         Analytical Toxicology Award [I0465]         Application 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         Better Beef Scholarship [I0588]       Entry Beef Scholarship [I0588]	nancial Services by April 1. <b>ndation on behalf of Dr. W.H. Minshall</b> the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree e completed semester level 6 are eligible. Interest and achievement in courses such as CROP*4240,
Application not required.       Donor (s):       O.A.C. Alumni Four         Donor(s):       Donor wishes anonymity       Qualification(s):       O.A.C. Alumni Four         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.       Donor (s):       O.A.C. students in programs who have in crop protection a ENVB*3030, ENV considered. Awarded and showing the greentering the program.         Better Beef Scholarship [10588]       These achelorships are provided to two students that have selected A CD*4450 Basearch	adation on behalf of Dr. W.H. Minshall the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree e completed semester level 6 are eligible. Interest and achievement in courses such as CROP*4240,
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         Better Beef Scholarship [I0588]       ENVB*3030, ENV considered. Awarde and showing the greentering the program	the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree e completed semester level 6 are eligible. Interest and achievement in courses such as CROP*4240,
These askelerships are manided to two students that have selected A CP *4450 Passarah	ed to the student with an interest in crop protection
These scholoushing an movided to true students that have calcuted $\Lambda CD * 4450$ Descended	reatest improvement in academic standing since
Project in Agriculture I for their next semester of study. Selection is based on the student's research topic proposal related to meat quality and quality control. Apply by April 1	nip [10537]
<ul> <li>with a letter, of not more than two pages, outlining proposed research topic to the Chair, Animal and Poultry Science.</li> <li>Donor(s): Better Beef Ltd.</li> <li>Qualification(s): BSc.(Agr), BSc.(Food Science), or BSc.(Animal Biology) students that have selected AGR*4450 for their next semester of study.</li> <li>Amount: 2 awards of \$2,500</li> </ul>	Dugh he generosity of W. Keith Bryant, O.A.C. '57, University made by his grandfather, Robert Bryant, is uncle, H. William Bryant. Robert Bryant was a rtment from the 1920's to the 1940's. Leonard R. Dairy Chemist, served the University from 1927 to was employed by the Apiculture Department from submit copies of their research proposals and one
	the Department of Integrative Biology by September
Applications to include a supporting letter from a coach or intramural supervisor. Apply or January of each year. The success	ssful candidate will be selected by the College of ttee on the recommendation of the Department of
80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities throughcourses administer student will be judg	t student enrolled in undergraduate research project ed by the Department of Integrative Biology. The ged to have the best proposal for an undergraduate d meet a minimum standard of excellence.
Blackburn Scholarship [I0404] Canadian Agri-Marketing Associa	tion (Ontario) Scholarshin [10541]
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 April 1. Donor(s): D.J. Blackburn Qualification(s): O.A.C. degree or diploma student who has participated in	on of Agri-Marketing Association (Ontario). Apply April 1 with a summary of participation in the Ag ng initiatives as well as a letter of recommendation <b>keting Association (Ontario)</b> mpeted a minimum of 10.0 credits with a minimum e of 70% who are members of O.A.C. and the Ag
of 70% while registered at Guelph. Athletic excellence and leadership achievement and a	election will be based on a combination of academic demonstrated interest in agri-marketing.
Amount 1 award of \$500	Women/Guelph Scholarship [10294]
Pat McConn Memorial Satalanskin [C0214]	in Federation of University Women provides this
This award is presented in the Winter semester. Application not required.	• •
Qualification(s):       Student commencing semester 8 in honours Wild Life Biology major. The scholarship will be awarded to the student who has completed the 7th semester level with the highest cumulative average in core courses in the Wild Life major.       Qualification(s): Female student reg B.ENG., B.A. (Col B.Sc.(College of Ph cumulative average	r of the Canadian Federation of University Women istered in Year 3 in the Fall semester in either lege of Physical and Engineering Science) or ysical and Engineering Science) who has the highest e. Preference will be given to a student who has econdary school in Wellington County.
Brian L. Walker Memorial Scholarship [10301] Amount: 1 award of \$2,000	
courses. This scholarship is not tenable with the Dr. Hugh D. Branion Memorial Scholarship. Application not required.courses listed. Application not requiredDonor(s):Brian Walker Memorial Scholarship Committee Qualification(s):Certified General Ac Qualification(s):Qualification(s):Student registered in semester level 8 in B.Sc. Nutrition and Nutraceutical Sciences major in the Winter semester.Donor(s):Certified General Ac Qualification(s):Amount:1 award of \$500Amount:1 award of \$150, pl	with the highest average in the three accounting

CFRU Voluntee	er Award [I0215]
Apply to the CF	RU Board of Governors by April 30.
Donor(s):	Station Manager, CFRU
	• 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. 2 awards of \$250
Chair's Prize in	Human Health and Nutritional Sciences [C0555]
	e Department of Human Health and Nutritional Sciences. These awards
are presented to	the student with the highest cumulative average in each of Human dical Sciences, and Nutrition and Nutraceutical Science. Application
1	Hannan Haldh and Natolitianal Calman Danautor and
	Human Health and Nutritional Science Department Full-time students who have completed the B.Sc. Degree program in Human Kinetics, Biomedical Science, and Nutrition and Nutraceutical Science within the most recently completed academic year.
Amount:	3 awards of \$500
	van Memorial Prize [C0187]
	emory of the late Lieutenant Charles McGowan. Application not required.
Donor(s):	Charles McGowan Memorial Fund
~ • • • •	Outstanding graduating student in an O.A.C. degree program.
Amount:	1 award of \$300
	ute of Canada Prize (CIC) Silver Medal in Biochemistry [I0056]
	Winter semester. Application not required.
Donor(s):	Chemical Institute of Canada
	Student enrolled in the Biochemistry Honours program or Biochemistry Co-op program who have completed a minimum of 15.0 credits with the highest cumulative average.
Amount:	1 Silver medal
Donated by the (	• Prize for Chemistry Promotion [10495] Chemistry Club, together with the Dean of C.P.E.S Applicants should be type-written summary outlining their efforts to promote the disciplines
Donated by the 0 submit a one-pag of chemistry wit Club by Februar Donor(s):	Chemistry Club, together with the Dean of C.P.E.S Applicants should be type-written summary outlining their efforts to promote the disciplines hin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered
Donated by the 0 submit a one-pag of chemistry wit Club by Februar Donor(s):	Chemistry Club, together with the Dean of C.P.E.S Applicants should be type-written summary outlining their efforts to promote the disciplines hin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b>
Donated by the G submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount:	Chemistry Club, together with the Dean of C.P.E.S Applicants should be type-written summary outlining their efforts to promote the disciplines hin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry, who has made a significant contribution to promotion of chemistry.
Donated by the C submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y	Chemistry Club, together with the Dean of C.P.E.S Applicants should be type-written summary outlining their efforts to promote the disciplines hin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry, who has made a significant contribution to promotion of chemistry. 1 award of \$200
Donated by the C submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y of the O.A.C. Aw	Chemistry Club, together with the Dean of C.P.E.S Applicants should the type-written summary outlining their efforts to promote the disciplines thin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry , who has made a significant contribution to promotion of chemistry. 1 award of \$200 <b>C.C. Leadership Awards [C0063]</b> ear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion
Donated by the C submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y of the O.A.C. Aw not required. Donor(s):	Chemistry Club, together with the Dean of C.P.E.S Applicants should e type-written summary outlining their efforts to promote the disciplines hin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry , who has made a significant contribution to promotion of chemistry. 1 award of \$200 <b>C. Leadership Awards [C0063]</b> ear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion vards Committee students may be selected before graduation. Application <b>Year '51 O.A.C.</b> 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
Donated by the C submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y of the O.A.C. Awn not required. Donor(s): Qualification(s):	Chemistry Club, together with the Dean of C.P.E.S Applicants should e type-written summary outlining their efforts to promote the disciplines hin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry , who has made a significant contribution to promotion of chemistry. 1 award of \$200 <b>X.C. Leadership Awards [C0063]</b> ear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion vards Committee students may be selected before graduation. Application <b>Year '51 O.A.C.</b> 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.
Donated by the G submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y of the O.A.C. Aw not required. Donor(s): Qualification(s): Amount:	Chemistry Club, together with the Dean of C.P.E.S Applicants should the type-written summary outlining their efforts to promote the disciplines thin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry , who has made a significant contribution to promotion of chemistry. 1 award of \$200 <b> Leadership Awards [C0063]</b> ear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion wards Committee students may be selected before graduation. Application <b>Year '51 O.A.C.</b> 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. 5 awards of \$2,000
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Donated by the G submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y of the O.A.C. Aw not required. Donor(s): Qualification(s): Amount: Class of '67 O.A Apply to Studen Donor(s): Qualification(s): Amount: Class of 1970 Sc Established by th of the University campus. The ap semester and the	Chemistry Club, together with the Dean of C.P.E.S Applicants should the type-written summary outlining their efforts to promote the disciplines thin the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry , who has made a significant contribution to promotion of chemistry. 1 award of \$200 <b>C. Leadership Awards [C0063]</b> ear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion vards Committee students may be selected before graduation. Application <b>Year '51 O.A.C.</b> 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. 5 awards of \$2,000 <b>C. Centennial Scholarship [10067]</b> t Financial Services by April 1. <b>Class of O.A.C. '67</b> 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. 1 award of \$1,000 <b>Holarship [10424]</b> ne Silver Anniversary celebrants to commemorate the 25th anniversary (Class of 1970. This award rotates among all six colleges on the main propriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required.
Donated by the G submit a one-pag of chemistry with Club by Februar Donor(s): Qualification(s): Amount: Class of '51 O.A Established by Y of the O.A.C. Aw not required. Donor(s): Qualification(s): Amount: Class of '67 O.A Apply to Studen Donor(s): Qualification(s): Amount: Class of 1970 Sc Established by th of the University campus. The ap semester and the Donor(s):	Chemistry Club, together with the Dean of C.P.E.S Applicants should be type-written summary outlining their efforts to promote the disciplines in the University, or the community to the Executive of the Chemistry y 1st. <b>The Chemistry Club</b> Student at any semester level enrolled in a degree program administered by the Department of Chemistry , who has made a significant contribution to promotion of chemistry. 1 award of \$200 <b>A.C. Leadership Awards [C0063]</b> fear '51 O.A.C., on the occasion of its 45th anniversary. At the discretion vards Committee students may be selected before graduation. Application <b>Year '51 O.A.C.</b> 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. 5 awards of \$2,000 <b>A.C. Centennial Scholarship [10067]</b> t Financial Services by April 1. <b>Class of O.A.C. '67</b> 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. 1 award of \$1,000 <b>Eholarship [10424]</b> ne Silver Anniversary celebrants to commemorate the 25th anniversary (Class of 1970. This award rotates among all six colleges on the main propriate College Award Committee selects the candidate each Fall

	to Student Financial Services.
Donor(s):	Clayton and Dorothy Switzer
Qualification(s):	One to a student who has completed semester 2 of the Diploma in
	Agriculture program and one to a student who has completed semester 4 of a degree program in O.A.C. Recipients will have a minimum of
	70% standing and have demonstrated outstanding leadership ability
	in O.A.C. student organizations, class executives and College Royal.
Amount:	1 award of \$2,000
College of Biolo	gical Science Gold Medalist [C0072]
	College of Biological Science nominee for the Winegard Medal. The
-	esented at the time of the Spring Convocation. Application not required. gold medal and \$200.
Donor(s):	An anonymous donor
Qualification(s):	The recipient is selected by the Awards Committee of the College of Biological Science.
Amount:	1 award of \$200, 1 Gold Medal
College of Biolo	gical Science Roll of Distinction [I0000]
Application not	
Donor(s):	College of Biological Science
	Awarded to full-time students who have completed 5 semesters, and
	who have a cumulative average of 85% up to the semester of
	consideration for the award. Part-time students who have completed
	semester 5 and have taken at least 2 courses per semester over consecutive semesters, are also eligible.
Amount:	1 Certificate
College of Physi	ical Engineering Science Academic Scholarship [10073]
Application not	
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 Physi	ical Engineering Science Graduation Prize [C0075]
	be selected in May from all students who have completed the program
	twelve months. Application not required. One award of \$250 and a
commemorative	plaque.
Donor(s):	College of Physical and Engineering Science
Qualification(s)	
Zuanjicanon(s).	Student graduating with the highest cumulative average from an
	honours B.Sc. program in a Physical and Engineering Science area.
Amount:	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque
Amount: College of Phys	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076]
Amount: College of Physic Awarded in the I	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076] Fall semester to a student who has completed semester 6 in the previous
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Amount: College of Physi Awarded in the H Fall, Winter or S and Engineering Donor(s): Qualification(s):	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076] Fall semester to a student who has completed semester 6 in the previous pring semesters and who is enrolled in Year 4 of a College of Physical Science program. Application not required. College of Physical and Engineering Science • Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3.
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Amount: College of Physi Awarded in the H Fall, Winter or S and Engineering Donor(s): Qualification(s): Amount: Collins Barrow Offered by Colli Winter semester Donor(s): Qualification(s): Amount: Copernicus Sch Application not : Donor(s):	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076] Fall semester to a student who has completed semester 6 in the previous pring semesters and who is enrolled in Year 4 of a College of Physical Science program. Application not required. College of Physical and Engineering Science Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3. 1 award of \$250 Award [10040] ns Barrow, a national firm of Chartered Accountants. Awarded in the Application not required. Collins Barrow Chartered Accountants Student with the highest grade in course BUS*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. 1 award of \$500 olarship in Physics [10081] required. The faculty members of the Department of Physics through their Scholarship Trust Fund Students who have completed 7.5 course credits and are registered in one of the majors programs in Physics. To be eligible, students must
Amount: College of Physi Awarded in the H Fall, Winter or S and Engineering Donor(s): Qualification(s): Amount: Collins Barrow Offered by Colli Winter semester Donor(s): Qualification(s): Amount: Copernicus Sch Application not : Donor(s):	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076] Fall semester to a student who has completed semester 6 in the previous pring semesters and who is enrolled in Year 4 of a College of Physical Science program. Application not required. College of Physical and Engineering Science Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3. 1 award of \$250 Award [10040] ns Barrow, a national firm of Chartered Accountants. Awarded in the Application not required. Collins Barrow Chartered Accountants Student with the highest grade in course BUS*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. 1 award of \$500 olarship in Physics [10081] required. The faculty members of the Department of Physics through their Scholarship Trust Fund 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
Amount: College of Physi Awarded in the H Fall, Winter or S and Engineering Donor(s): Qualification(s): Amount: Collins Barrow Offered by Colli Winter semester Donor(s): Qualification(s): Amount: Copernicus Sch Application not : Donor(s):	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076] Fall semester to a student who has completed semester 6 in the previous pring semesters and who is enrolled in Year 4 of a College of Physical Science program. Application not required. College of Physical and Engineering Science Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3. 1 award of \$250 Award [10040] ns Barrow, a national firm of Chartered Accountants. Awarded in the Application not required. Collins Barrow Chartered Accountants Student with the highest grade in course BUS*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. 1 award of \$500 olarship in Physics [10081] required. The faculty members of the Department of Physics through their Scholarship Trust Fund Students who have completed 7.5 course credits and are registered in one of the majors programs in Physics. To be eligible, students must
Amount: College of Physi Awarded in the H Fall, Winter or S and Engineering Donor(s): Qualification(s): Amount: Collins Barrow Offered by Colli Winter semester Donor(s): Qualification(s): Amount: Copernicus Sch Application not : Donor(s):	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque ical Engineering Science Scholarship [10076] Fall semester to a student who has completed semester 6 in the previous pring semesters and who is enrolled in Year 4 of a College of Physical Science program. Application not required. College of Physical and Engineering Science Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3. 1 award of \$250 Award [10040] ns Barrow, a national firm of Chartered Accountants. Awarded in the Application not required. Collins Barrow Chartered Accountants • Student with the highest grade in course BUS*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. 1 award of \$500 olarship in Physics [10081] required. The faculty members of the Department of Physics through their Scholarship Trust Fund • 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

Clayton and Dorothy Switzer Scholarships [I0276]

CEAHE Ct-1	t Valuntaan Sahalanshin [10492]	Dn Morr M.T	aich Scholarchin [10560]
	t Volunteer Scholarship [I0482]	-	eish Scholarship [10560]
Society and Pfiz	resa Firestone, FACS '78, and funded by the Harshman Fellowships are Canada Inc Students may apply on their own or be recommended ts, faculty members or administrators from non-profit organizations.	are awarded in	Department of Computing and Information Science, these scholarship the Fall semester to students in a Computing and Information Science that achieved the highest and second highest averages in Year
	AHS Dean's Office with two letters of recommendation, at least one of	~ . ~	Information Science core courses. Application not required.
	from an individual who can speak to his/her volunteerism and a summary	Donor(s):	Department of Computing and Information Science
-	he student's volunteer experience and what has been gained or learned		: Undergraduate students in a Computing and Information Science (CIS
April 1.	ence that has enhanced his/her personal growth and/or career goals by		degree program who have completed from 5.0 to 7.5 course credits
Donor(s):	Harshman Fellowship Society and Pfizer Canada Inc.	Amount:	and have taken the CIS core courses required for Year 1. 1 award of \$500, 1 award of \$300
	· Full-time undergraduate students in any degree program offered by		Scholarship [I0561]
	the College of Social and Applied Human Sciences and have completed		Department of Computing and Information Science, these scholarship
Amount:	at least 15 course credits with a minimum cumulative 70% average. 1 award of \$450 plus an equal amount to the charitable organization		the Fall semester to students in a Computing and Information Science
imouni.	of the recipient's choice		n that achieved the highest and second highest averages in Year
David F. Boves	Apiculture Scholarship [I0031]		Information Science core courses. Application not required.
Ţ	emory of David Boyes a technician in the Apiculture Field Laboratory.	Donor(s):	Department of Computing and Information Science : Undergraduate students in a Computing and Information Science (CIS
Application not a		Qualification(s)	degree program who have completed from 10.0 to 12.5 course credit
Donor(s):	The Apiculture Club		and have taken the CIS core courses required for Year 2.
Qualification(s):	Student registered in the Fall semester who achieves high academic	Amount:	1 award of \$500, 1 award of \$300
	standing in Introductory Apiculture (ENVB*2210) in the previous year, demonstrates an interest in apiculture and who has participated	E.B. MacNaugh	hton Convocation Prize [C0171]
	in extracurricular activities.		the College of Physical and Engineering Science to honour Earl H
Amount:	1 award of \$150		former head of the Department of Physics and founding Dean of th ical Science. Application not required. One award of a plaque-mounte
Deans' Scholars	ships [10323]	medal and \$250	
	Board of Governors. Recipients will be selected by each of the College	Donor(s):	The College of Physical and Engineering Science
	ttees. Winners will be notified in the Fall semester. Application not	Qualification(s)	: The College of Physical and Engineering Science nominee for the
required.	Board of Governors	A	Winegard Medal.
Donor(s): Oualification(s):	Students registered in any degree program. The primary academic	Amount:	1 award of \$250, 1 Plaque-mounted medal
2	criteria is placement on the Deans' Honours List for two consecutive	Egelstaff Schola	
	semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.		niversity Professor Emeritus and former Chair of the Department of A. Egelstaff. Awarded in the Winter semester. Application not required
Amount:	program, in the previous Fall/Winter/Summer sequence. 150 awards of \$1,000	Donor(s):	Department of Physics
	enoff Memorial Scholarship for Excellence in Chemistry [10517]		: Student who has completed 12.5 course credits, is currently registered
	ly and the College of Physical and Engineering Science, together with		in one of the majors in Physics and has a high cumulative average (o
	of Guelph Faculty Association and friends, have established this		at least 80%) in the required Physics courses normally taken in Year 2 & 3 of the major.
	emory of Dr. Caesar V. Senoff. Dr. Senoff discovered the first dinitrogen	Amount:	1 award of \$500
	ompleting his PhD at the University of Toronto, opening up a new field valued member of the University of Guelph faculty from 1968 to 1996,	Ellen Nilsen M	emorial Scholarship [10047]
	auence continues through his students and colleagues. Application not		ector for International Development Studies with an unofficial summar
required.			a cover letter outlining how past experiences demonstrate a commitmer
Donor(s):	Senoff family and the College of Physical and Engineering Science, together		e by January 30th. Preference will be given to a student registered in
	with the University of Guelph Faculty Association and friends	1 0	am at the University of Guelph.
Qualification(s):	• Student majoring in any Chemistry program who has completed between 7.5 and 9.75 credits and who has the highest cumulative	Donor(s): Qualification(s)	The Friends of Ellen Nilsen Registered academically outstanding female students from developin
	average over 80%.	Qualification(S)	countries who have demonstrated a commitment to social change.
Amount:	1 award of \$500	Amount:	1 award of \$1,500
Dr. Charles Cap	pstick Graduation Prize [C0558]	Fisher Scientifi	ic Scholarship in Biochemistry [10600]
	Department of Computing and Information Science, these scholarships		be based on high academic achievement. The recipient shall no
	May to students who have completed an undergraduate degree in a information Science program and have achieved the highest and second		ld another award of \$1,000 or more in value. A student may be considered
1 0	ve averages at graduation. Application not required.		nly once. Application not required. Fisher Scientific
Donor(s):	Department of Computing and Information Science	Donor(s): Oualification(s)	Students enrolled in the Biochemistry Honours program or the
· · ·	Students who have completed an undergraduate degree in Computing	2	Biochemistry Co-op program who have completed a minimum of 7.
A	and Information Science (CIS) in the previous twelve months.		credits up to a maximum of 9.75 credits at the end of the fall semester
Amount:	1 award of \$500, 1 award of \$300	Amount:	1 award of \$500
Dr. James Lind	ers Scholarship [10559] Department of Computing and Information Science, these scholarships		use Prize in Analytical Chemistry [I0247]
			Winter semester. Application not required.
Provided by the l	he Fall semester to students in a Computing and Information Science	Donor(s):	Colleagues, students and friends of Professor F.E.B. Roadhouse
Provided by the l are awarded in the	he Fall semester to students in a Computing and Information Science that achieved the highest and second highest averages in Year 3		Student with the highest grade in CHEM*2400 Analytical Chemist
Provided by the l are awarded in the degree program	1 0		
Provided by the l are awarded in the degree program Computing and l Donor(s):	that achieved the highest and second highest averages in Year 3 Information Science core courses. Application not required. Department of Computing and Information Science		I in the previous calendar year, who is continuing in an honours major program administered by the Department of Chemistry. In the event
Provided by the l are awarded in the degree program Computing and l Donor(s):	that achieved the highest and second highest averages in Year 3 Information Science core courses. Application not required. <b>Department of Computing and Information Science</b> Undergraduate students in a Computing and Information Science (CIS)	Qualification(s)	: Student with the highest grade in CHEM*2400 Analytical Chemistr I in the previous calendar year, who is continuing in an honours majo program administered by the Department of Chemistry. In the event of a tie, laboratory performance will be considered.
Provided by the l are awarded in the degree program Computing and l Donor(s):	that achieved the highest and second highest averages in Year 3 Information Science core courses. Application not required. Department of Computing and Information Science		I in the previous calendar year, who is continuing in an honours major program administered by the Department of Chemistry. In the event

IX. Scholarships and Other Awards, Bachelor of Science 159			
Francis E. Chase Memorial Scholarship [10055]	GIBCO/BRL Microbiology Research Excellence Award [C0297]		
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 April 1.         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	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 MICR*4310 and/or MICR*4320 Research Project I and/or II in Microbiology.         Amount:       1 award of \$500		
animal welfare at Guelph, developed the first course in Animal Welfare, and was	GlobalTox Award for Academic Excellence [I0135]		
co-founder and editor of the Journal of Agricultural and Environmental Ethics. Apply by letter to the Chair, Animal and Poultry Science, by February 1 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. <i>Donor(s):</i> <b>Dr. Frank Hurnik</b> <i>Qualification(s):</i> O.A.C. undergraduate or graduate students who are associated with	GlobalTox International Consultants Inc. offers this award. Application not required.         Donor(s):       GlobaTox 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		
the department of Animal & Poultry Science and who undertake a	Gonder Family Centre for Students with Disabilities Volunteer Award [10563]		
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	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		
Fred Ramprashad Scholarship [I0474]	volunteer activities undertaken by the student at the CSD, one letter of reference, and a		
<ul> <li>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 not required.</li> <li><i>Donor(s):</i> The C.B.S. Alumni, 'Annual Donation'</li> <li><i>Qualification(s):</i> 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</li> </ul>	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		
status, and made an exemplary contribution to the team(s).	Gonder Family Scholarship [10580]		
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 not required. One award of a medal and a maximum of \$500.         Donor(s):       Department of Integrative Biology Qualification(s):         The student who graduates at the completion of the Winter semester,	<ul> <li>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 CSAHS major of the B.Comm. program. Application not required.</li> <li>Donor(s): Dr. John and Mrs. Katherine Gonder</li> <li>Qualification(s): All students in the CSAHS who have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and who</li> </ul>		
<ul> <li>or during the previous Fall or Spring semesters with the highest cumulative average in the Department of Integrative Biology's Marine and Freshwater Biology major.</li> <li>Amount: 1 award of \$500, 1 Medal</li> </ul>	have been identified with a learning disability through the University of Guelph's Centre for Students with Disabilities.         Amount:       1 award of \$900		
George A. Farley Scholarship [10099]	Gordon Ashton Statistics Scholarship [10543]		
Established in memory of George A. Farley, a chemistry graduate of the Class O.A.C.'33, and presented in the Winter semester. Application not required.         Donor(s):       James M. Farley         Qualification(s):       Student enrolled in a Co-op program administered by the Department of Chemistry and who has completed their second work term within the preceding calendar year. Work term reports, work term assessments and course grades will be considered. The student must have a cumulative average of at least 80%.         Amount:       1 award of \$250	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 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.		
George I. Christie Scholarship [C0347]	Amount: 1 award of \$750		
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 \$800	Governor General's Medal [C0044]         Established by the Office of the Governor General of Canada. Application 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:       1 Silver medal		
Amount: 1 award of \$800			

Greg Muir Memorial Scholarship [I0196]	Honours Biochemistry Scholarship [I0128]
The Greig Muir Memorial Scholarship is awarded by Champlain Industries of Stanbridge	This scholarship is donated by the faculty of the Department of Molecular and Cellular
Station, Quebec, to a Food Science student in the B.Sc. program. Preference will be	Biology through their scholarship trust fund and is awarded annually in the Winter
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. Application not required.
semester 5. Apply to Student Financial Services by April 1.	Donor(s):         Department of Molecular and Cellular Biology           Qualification(s):         The student enrolled in the Biochemistry Honours program or the
Donor(s): Champlain Industries Ltd.	Biochemistry Co-op program that has completed a minimum of 10.0
Qualification(s): B.Sc. Food Science students on the basis of academic standing and	credits with the highest cumulative average.
Amount: 1 award of \$1,000	Amount: 1 award of \$500
Guelph Soap Company Scholarship [I0288]	Honours Chemistry Scholarship [I0129]
The Guelph Soap Company donates this scholarship towards tuition fees, which is	This scholarship is donated by the faculty of the Department of Chemistry through their scholarship trust fund and is awarded annually in the Winter semester. Application not
awarded in the Winter semester. Application not required.	required.
<i>Donor(s):</i> <b>Tricorp Chemical Specialities</b> <i>Qualification(s):</i> Student enrolled in the organic chemistry courses CHEM*3750 and	Donor(s):         Faculty of the Department of Chemistry           Qualification(s):         Student who is enrolled in the B.Sc. honours Chemistry program who
CHEM*3760 during the previous calendar year who has obtained the	completed semester 4 in the previous calendar year, and has achieved
highest average in one Biochemistry course and two Organic Chemistry courses, and who is continuing in an honours major program	the highest cumulative average over four semesters, providing that at least 3.00 credits offered by the Department of Chemistry have been
administered by the Department of Chemistry.	taken.
Amount: 1 award of \$1,200	Amount: 1 award of \$1,000
H. Boyd Scholarship [I0335]	Hugh Branion Memorial Scholarship [10033]
Established by the friends of Professor W.H. Boyd. Application not required. Awarded	The scholarship will be awarded on the recommendation of the Department of Human
in the Winter semester.	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.
Donor(s):         Douglas L. Woolley, M.D. & B.Sc. Alumni Association           Qualification(s):         Student enrolled in the Human Kinetics major who has completed	Application not required.
Human Anatomy and who has made leadership contributions to the	Donor(s): Friends of Dr. Hugh Branion
University or outside community.	<i>Qualification(s):</i> Student registered in semester level 8 in B.Sc. Nutritional and
Amount: 1 award of \$1,000	Amount: 1 award of \$500
H.O. Shackleton Memorial Scholarship [C0255]	Hypercube Scholar Prize for Excellence in Chemistry [C0527]
Interested students should apply to the Chair of the Department of Molecular and Cellular Biology by April 1, in order to be considered for this scholarship.	Established to recognize the student graduating with the highest cumulative average in
Donor(s): Mrs. H.O. Shackleton	any chemistry program offered by the Department of Chemistry. Application not required.
<i>Qualification(s):</i> Student graduating in the B.Sc. Microbiology (major or minor) and	Donor(s): Hypercube Inc.
planning to pursue graduate studies in Microbiology at a recognized	<i>Qualification(s):</i> Students graduating (or have graduated in the fall or winter of the
University. The recipient will be selected by the Awards Committee of the College of Biological Science on the basis of the highest	current academic year) from a four-year degree program offered by the Department of Chemistry.
cumulative average grade amongst applicants who have not won a	Amount: A plaque and a molecular modelling software package.
major scholarship (such as a NSERC or Ontario Government). Nomination will be made by the Department of Molecular and Cellular	International Undergraduate Scholarship [10577]
Biology at the end of the Winter semester.	Established through a student referendum approved by the undergraduate student body,
Amount: 1 award of \$500	to recognize international students' academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be
Highdale Farms Scholarship [I0348]	considered only in the event of a tie. Apply to Student Financial Services, by April 1,
Apply to Student Financial Services, by April 1.	with a letter indicating involvement/extracurricular activity since entry to the University,
Donor(s): Arthur Spoerri	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
<i>Qualification(s):</i> 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	student.
related to the natural sciences. The first award is based on academic	Donor(s): International Student Organization (ISO)
proficiency. The second award is based on academic proficiency and demonstrated leadership with preference given to students from	<i>Qualification(s):</i> Full-time International students (defined as those paying full international student trution with out examples of the base completed
Ottawa-Carleton, Dundas-Glengarry-Stormont, Grenville, Lanark,	international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a
Prescott-Russell and Renfrew counties.	minimum cumulative average of 75%, and is registered at the time of
Amount: 2 awards of \$2,500	application. Amount: 1 award of \$1,000
HK/HB Alumni Association Graduation Prize [C0452]	Isabella Anderson Conway Scholarship [10286]
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	Awarded to the student who has achieved the highest combined average in the courses
academic activities (department/college committees, senate etc.), intramural and varsity	NUTR*3210 Fundamentals of Nutrition and BIOC*2580 Introductory Biochemistry.
athletics, support and assistance with class, college and university activities (such as	Application not required.
HK/HB Symposium, College Royal etc.). Apply by letter and include a resume to the Department of Human Health and Nutritional Sciences by the end of the second week	<i>Donor(s):</i> <b>Mr. Charles Abbott Conway</b> <i>Qualification(s):</i> Students registered in a major offered by the department of Nutrition
in February each year, for students graduating in the subsequent June convocation or	<i>Qualification(s):</i> Students registered in a major offered by the department of Nutrition and Nutraceutical Sciences that has completed a minimum of 12.5
for students who graduated in the previous February or October convocations.	credits but no more than 15.0 credits.
<i>Donor(s):</i> <b>The HK/HB Alumni Association</b> <i>Qualification(s):</i> Students graduating with a BSc. major in Human Kinetics in the June	Amount: 1 award of \$500
or previous February or October convocations, with at least a 'B'	J.B. Reynolds Graduation Medal in Physics [C0399]
cumulative average.	This medal is awarded to a graduating student in the Spring semester or the previous Fall or Winter Semesters. Application not required.
Amount: Medal and an alumni life membership	Donor(s): Department of Physics
	<i>Qualification(s):</i> 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 Medal

<ul> <li>J.D. Crunningham Industrial Scholarship [10287]</li> <li>J.D. Canningham Industrial Scholarship [10288]</li> <li>J.D. Canningham Industrial Scholarship [10288]</li> <li>J.D. Canningham Industrial Scholarship [10287]</li> <li>J.C. Campbell Indership skills are also considered.</li> <li>J. Campbell Scholarship [10287]</li> <li>J. Campbell Scholarship [10287]</li> <li>J. Campbell Scholarship [10287]</li> <li>J. Campbell Scholarship [10287]</li> <li>J. Campbell Indership skills are also considered.</li> <li>J. Campbell Indership skills are also considered.</li> <li>J. Campbell Scholarship [10287]</li> <li>Stabilished In honour of J.L. (1ain) Campbell. former Provost and Vice-President (Academic), of Biophorn 1995 to 2000 and former Dean of the University of the edderly, while the other should comment on the extra (also and the other should comment on the extra (also and the edderly, while the other should comment on the extra (also and the other should comment on the extra (also and the edderly while in the IGA IIS who has completed at least 12.50 credit, with a high cumulative average (all task 12.50 credit, with a high cumulative average (all task 12.50 credit, with a high cumulative average (all task 12.50 credit, with a high cumulative average (all task 12.50 credit, with a high cumulative average (all task 12.50 credit, with a high cumulative average (all task 12.50 credit in works and the provide the other should comment on the extra (all should the ford science for and the should the ford science (all science for 1996 coll and the ford science major of the B.Sc. program with the highest chair of the Dod Science major of the B.Sc. program with the highest</li></ul>
Donar(s): <b>J.D. Completed</b> semester 6 in Food Science. Work experience of resement in aduating anticipation in extracurricular activities and considered.         Antoanti:       1 award of S900         Antoanti:       1 award of S900         Extablished in honour of J.L. (Lain) Campbell, former Provest 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 not required.         Donor(s):       Family, Afrieds and colleagues of J.L. Campbell (Liferation (S): Value Work is accompleted at a 12.50 credits, with a high cumulative average (at lass 12.50 credits, with a high wereage) (at lass
<ul> <li>Dunification (s): A warded to student with a minimum comulative average of 75%. When scompleted sensets of a Food Science. Work experience on the dupt with the elderly in a volunteer is well as extracurricular involvement the student in a volunteer as well as extracurricular involvement the student with the elderly in the elderly while the edder is well as extracurricular involvement the student in a volunteer as well as extracurricular involvement the student in the elderly while the edder is well as extracurricular involvement the student is experience working with the elderly while the edder is well as extracurricular involvement the student is experience working with the elderly while the other should comment on the extra well as extracurricular entities. The student is the student in the College of Physical and Engineering Science from 1995 to 2000 and former Dean of the student.</li> <li>Conferstite Frize (C213)</li> <li>Chartstite Prize (C213)</li> <li>Application not required.</li> <li>Annoant: 1 Plaque</li> <li>Chartstite Prize (C213)</li> <li>Application not required.</li> <li>Annoant: 1 Plaque</li> <li>Conferstite Frize (C213)</li> <li>Annoant: 1 Plaque</li> <li>Contristite Ange and their faher to recompose the family fam. Apply to Student Financial Services 1.</li> <li>Donor(s): The Fate (Science (C2260)</li> <li>Kans Link Stokaman do family and their faher to recompose the family fam. Apply to Student Financial Services 10 huve to the family fam. Apply to Student Financial Services 10 huve to the family fam. Apply to Student Science Mana and Science Science whon as exompleted science on the science of the school of Human Health and Nutritional Sciences, who has completed Researce of the School of Human Health and Nutritional Sciences, who has completed Researces of the Winter senester van bas a completed Researce on the wolf regress of the school of Human Health and Nutritional Sciences, who has completed Researces of the school of Human</li></ul>
<ul> <li>Participation of Particle of a field sensets of in Food Science. Work experience in the outlines the student's experience working with the idderly in a volunce in dustrial microbiology, participation in extracurricular activities at servacurricular involvement to student may have and tryos letters of rone of which should be from someone who can speak to the student's experiences with the idderly in a volunce is a ward of \$500</li> <li><b>J. Campbell Scholarship [10479]</b></li> <li>Estabilished in honour of J. 1. (Ian) 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 not required Physics courses normally take in the reading student in the CSAHS who has completed at least 12-50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally take in Year 2 and 3 of the major.</li> <li>Anount: I award of SSO0</li> <li><b>Jim Stokman Memorial Scholarship [10386]</b></li> <li><b>Anount: I award of SSO0</b></li> <li><b>Jim Stokman Memorial Scholarship [10386]</b></li> <li><b>M. Christie Prize [C0213]</b></li> <li>Application not required.</li> <li><b>Jaward of SSO0</b></li> <li><b>Jim Stokman Memorial Scholarship [10491]</b></li> <li><b>Anount: I award of SSO0</b></li> <li><b>Jonor(s): Teally, staf, alumni and students, of the former College of Social Sciences. Apply to Student Financial Services by April 1.</b></li> <li><i>Donor(s): The friends and social Sciences.</i></li> <li><b>Jon KChrishe Prize</b>.</li> <li><b>Jonor(s): The friends and social sciences.</b></li> <li><b>Jonor(s): The friends and social sciences.</b></li> <li><b>Jonor(s): HK/IB Alumni Association</b></li> <li><b>Jonor(s): The friends and social sciences.</b></li> <li><b>Jonor(s): The friends and social sciences.</b></li> <li><b>Jonor(s): HK/IB Alumni Association</b></li> <li><b>Jonor(s): The friends and student</b> student registered in semester 5. The with the</li></ul>
<ul> <li>as well as estracturcular involvement the student may have and two letters of rimulastrial microbiology, participation in extracturcular activities and demonstrated leadership skills are also considered.</li> <li><i>Anoant:</i></li> <li>I award of \$900</li> <li><b>L. Campbell Scholarship [10479]</b></li> <li>Established in honour of J.L. (tain) Campbell, former Provost and Vice-President (Academic), of Guelph from 1995 to 2000 and former Dean of the University of Guelph from 1995 to 2000 and former Dean ot required.</li> <li><i>Donor(s):</i></li> <li><b>Mr. Robert N. Carter and Family</b></li> <li><i>Qualification(s):</i> 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 12.50 credits, with a high cumulative average (at least 12.50 credits, with a high cumulative average (at least 12.50 credits, with a high cumulative average (at least 12.50 credits, with a high cumulative average (at least 12.50 credits, with a high cumulative average (at least 12.50 credits, with a high cumulative average (at least 12.50 credits, with a high cumulative average (at least 50%) in the required Physics courses normally taken in Year 2 and 3 of the major.</li> <li><i>Anoant:</i></li> <li>I award of \$10.000</li> <li><b>Im Sokman Memorial Scholarship [10386]</b></li> <li><b>Mrs. Sin Stokman</b></li> <li><i>Anoant:</i></li> <li>I Plaque</li> <li><i>College of Social Science. Application not</i> required.</li> <li><i>Donor(s):</i></li> <li><b>Mrs. Social Science. Application not</b> required.</li> <li><i>Donor(s):</i></li> <li><b>Mrs. Social Science. Application not</b> required.</li> <li><i>Donor(s):</i></li> <li><b>Mrs. Social Science. Application not</b> required.</li> <li><i>Donor(s):</i></li> <li><b>Mrs. Motanna</b></li> <li><b>Mrs. Social Science. Application not</b> required.</li> <li><i>Donor(s):</i></li> <li><b>Mrs. Motanna</b></li> <li><b>Mrs. Social Science. Application not</b> required.</li> <li><i>Donor(s):</i><!--</td--></li></ul>
<ul> <li>anoant: In avail of S000</li> <li>Anoant: I award of S000</li> <li>Anoant: I award of S000</li> <li>L. Campbell Scholarship [10479]</li> <li>Established in honour of J.L. (lain) Campbell, former Provost and Vice-President (Academic), of the University of Guadipation program (Scholarship [10479)</li> <li>Bauli, Friends and cellesques of J.L. Campbell</li> <li>Comport (S): Mr. Robert N. Carter and Family</li> <li>Qualification(S): Student who is correly registered in one of the majors in Physics and who has completed at least 12.50 credits, with a high cumulative average and the solution of the assolution of the major.</li> <li>Anoant: I award of S1.000</li> <li>Im Stokman Memorial Scholarship [10386]</li> <li>Mrs. Stokman and family, including her sons Nick (O.A.C.77) and Andrew (O hanoant); Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.</li> <li>Anoant: I award of S000</li> <li>Jm Christer Prize [C0213]</li> <li>Application not required.</li> <li>Jonor(s): Faculty, staff, atumi and students, of the former College of Social Sciences. Application on for creating.</li> <li>Jesk Ki. Barchay Physicator of the Schelarship [1041]</li> <li>Jack K. Barchay Physicator of the Schelar of the College of Social Sciences. Application of Sciences in Qualification(s): Presented to the C.S.A.H.S. Winegard Medal nominee.</li> <li>Annoant: I Medal</li> <li>Jack K. Barchay Physicator of the Schelar of the College of Social Sciences. J. Barclay, Staff, atumi and students of the College of Social Sciences. Application on the creating leadership science from background and have demonstrated community:student in two consentrated community:student in two sciences with a leader science science who has completed sciences with a leader science science who has completed sciences. Anoanti Sciences Science Physplop by Fobroana Vience Science Science Mo has completed Scienc</li></ul>
Amount:       1 award of \$900         JL. Campbell Scholarship [I0479]       Experiences with the elderfy, while the other should comment on the extra a factivities of the student.         Donor(s):       Family, friends and colleagues of JL. Campbell form 1995 to 2000 and former Dean of the Colleg of Physical and Engineering Science from 1995 (D 1995, Application not required.       Donor(s):       Mr. Robert N. Carter and Family (2ualification 70% cumulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the eare of the elderly. Preference with the analytic mulative average and has m significant contribution to the many or son with the analytic mulative average and and their father to reconstructure and the state of the student.         Amount:       1 award of \$500         JM. Christie Prize [C0213]       I.         Amount:       1 Plaque         Exabilished in honour of Professor JK. Barclay, Student, student in the froot Science (C0260)       Soin A Archibald (former J)         JM. King 1991. He was the first chair of the brepartment of Human Health and Nutritional Sciences, wh
J.L. Campbell Scholarship [10479]       partivities of the student.         Estabilished in honour of J.L. (tain) 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 not required.       Donor(s): Knobert N. Carter and Family Qualification(s): Undergraduate student in the CSAHS who has completed at Iss 12.50 credits, with a high cumulative average (at least 25.50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally take in Year 2 and 3 of the major.       Immuno 12 award of 51.000         J.M. Christie Prize [C0213]       Anount:       I award of S200         J.M. Stokman Memorial Scholarship [10386]       Mrs. Stokman and family, including her sons Nick (O. A. C. 77) and Andrew (O. have established this award in memory of her husband and their father to recondification(s): Tor G1. Christie         Donor(s):       Dr. Cl. Christie         Qualification(s): Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight sensetre levels.         Anount:       1 Plaque         Using Scholarship [10491]       Donor(s):         Stake K. Barclay Mystology Scholarship [10491]         Lack K. Barclay Physiology Scholarship [10491]         Lack K. Barclay Physiology Scholarship [10491]         Department of Human Heath and Nutritional Sciences, who has completed sciences from 1985-2001 and was involved in careating, teaching adminices schol of thigh academic stranking or program. The recipi
<ul> <li>Established in honour of J.L. (lain) Campbell, former Provost and Vice-President (Academic), of the University of Guelph from 1995 to 2000 and former Dean of the CSAHS who has completed at I can be application not required.</li> <li>Donor(s): Family, friends and colleagues of J.L. Campbell</li> <li>Qualification(s): Student who is currently registered in one of the majors in Physics and my hot has completed at least 12.50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally taken award of \$500</li> <li>JM. Christie Prize [C0213]</li> <li>Annount: 1 award of \$500</li> <li>JM. Christie Prize [C0213]</li> <li>Anglication not required.</li> <li>Donor(s): Fraduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.</li> <li>Annount: 1 Plaque</li> <li>JM. Skinner Medal in Social Science: Application not required.</li> <li>Donor(s): Fresented to the C.S.A.H.S. Winegard Medal nominee.</li> <li>Annount: 1 Medal</li> <li>Takka and main students, of the former College of Social Science: Application not required.</li> <li>Donor(s): Fresented to the C.S.A.H.S. Winegard Medal nominee.</li> <li>Annount: 1 Medal</li> <li>Takka Amana Sciences, Application not required.</li> <li>Donor(s): Fresented to the C.S.A.H.S. Winegard Medal nominee.</li> <li>Annount: 1 Medal</li> <li>Takka Amana Sciences, with a letter outlining leadership [10091]</li> <li>Testablished in honour of Professor J.K. Barclay, Director of the School of Human Health and Nutritional Sciences, with a letter outlining leadership [10093]</li> <li>Nominations, accompanied by appropriate resumes, are to be submitted to reinder with an interper program. The required in memory of professor J.K. Barclay, Director of the School of Human Health and Nutritional Sciences, who has completed HK *3940, Human Physiology: Apply by February 1st to the Chair, and thealth and</li></ul>
<ul> <li>(Academic), of the University of Guelph from 1995 to 2000 and former Dean of the College of Physical and Engineering Science from 1997 to 1995, Application not required.</li> <li><i>Qualification(s)</i>: Family, Friends and colleagues of J.L. Campbell</li> <li><i>Qualification(s)</i>: Fainity, Friends and colleagues of J.L. Campbell</li> <li><i>Amount:</i> 1 award of \$1,000</li> <li><i>Min.</i> Stokman and family, including her sons Nick (O.A.C.:77) and Andrew (O have established this award in memory of her husband and their father to recondition to required.</li> <li><i>Qualification(s)</i>: Fraculy, staff, alumni and students, of the former College of Social Sciences. Application not required.</li> <li><i>Qualification(s)</i>: Faculy, staff, alumni and students, of the former College of Social Sciences. Application not required.</li> <li><i>Qualification(s)</i>: Praculy, staff, alumni and students, of the former College of Social Sciences. Application not required.</li> <li><i>Monunt:</i> 1 Plaque</li> <li><i>Monunt:</i> 1 Medal</li> <li><i>Monunt:</i> 1 Award of the Cash sciences, who has completed student enrolled in a major within the Cash sciences, who has completed student enrolled in a major within the Cash sciences of the May Nutritional Sciences, who has completed student encoplement of Human Health and Nutritional Sciences, who has completed student encoplement of Human Health and Nutritional Sciences, who has completed student encoplement of Human Hea</li></ul>
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         Qualification(s):       Student who is currently registered in one of the majors in Physics and         Amount:       1 award of \$1,000         In Year 2 and 3 of the major.       I award of \$500         I.M. Christie Prize [C0213]       Mrs. Stokman And family, including her sons Nick (O.A.C. '77) and Andrew (O         Donor(s):       Dr. G. Christie         Qualification(s):       Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semseter levels.         Anount:       1 Plaque         Donor(s):       Faculty, staff, alumni and students, of the former College of Social Science.         Qualification(s):       Faculty, staff, alumni and students, of the former College of Social Science.         Donor(s):       Faculty, staff, alumni and students, of the former College of Social Science.         Momount:       1 Medal         Jack K. Barclay, Physiology Scholarship [10491]         Established in honour of Professor J.K. Barclay, Director of the School of Human Health and Nutritional Sciences. with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.         Donor(s):       HK/IB Alumni Association query and the community. Awarded in the Winter semester.
Qualification(s): Student who is currently registered in one of the majors in Physics and who has completed at least 12.50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally taken in Year 2 and 3 of the major.       Amount: 1 award of \$1,000         JM. Christie Prize [O213]       Im Stokman Memorial Scholarship [I0386]         Anount:       1 award of \$1,000         JM. Christie Prize [O213]       Im Stokman Memorial Scholarship [I0386]         Anount:       1 award of St.00         JM. Stokman and family, including her sons Nick (O. A.C. '77) and Andrew (O have established this award in memory of her husband and their father to reconflicteme contribution to the family farm. Apply to Student Financial Services 1.         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 senseter levels.         Amount:       1 Plaque         JW. Skinner Medal in Social Science (O260)       Established in honour of the many contributions of Dr. J.W. Skinner, a former Deard of the College of Social Sciences. Application not required.         Donor(s):       Faculty, staf, alumni and students, of the Former College of Social Science from 1980-1991. He wast the first chair of the Department of Human Health and Nutritional Sciences, who has acomplated senseter 6. The will be chosen on the basis both of high academic standing transmitter activities.         Donor(s):       HK HB Alumni Association         Qualification(s):
<ul> <li>average (at least 80%) in the required Physics courses normally taken in Year 2 and 3 of the major.</li> <li>Amount: 1 award of \$500</li> <li>JM. Christie Prize [C0213]</li> <li>Application not required.</li> <li>Donor(s): Dr. G.I. Christie</li> <li>Qualification(s): Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.</li> <li>Amount: 1 Plaque</li> <li>JW. Skinner Medal in Social Science [C0260]</li> <li>Established in honour of the many contributions of Dr. J.W. Skinner, a former Dean of the College of Social Sciences. Application not required.</li> <li>Donor(s): Faculty, staff, alumni and students, of the former College of Social Sciences from 1989-1091. He was the first chair of the Department of Human Health and Nutritional Sciences (rim 1996-2001 and was involved in creating, teaching and implementing HK 3940. Human Physiology. Apply by February 1st to the Chair, or apply 1. Bull-time undergraduate student encilled in a major within the Department of Human Health and Nutritional Sciences, who has completed HK*3940, Human Physiology with a letter outling leadership [10093]</li> <li>Nominations, accompanied by appropriate resumes, are to be submitted to Financial Services Qualification(s): Full-time student registered in semester 2, 3, 4, 5 or 6 and li residence in the Winter semester wo has as completed MK*3940, Human Physiology with a minimur 70% average</li> <li>Donor(s): Full-time student registered in semester 2, 3, 4, 5 or 6 and li residence in the Winter semester work is a cumulative Stop average in one setter 2, 3, 4, 5 or 6 and li residence in the Winter semester work is a cumulative stop average in one setter 2, 3, 4, 5 or 6 and li residence in the Winter semester who has completed semester 2, 5, 4, 5 or 6 and li residence in the Winter semester who is in the top 10% of his/her program. The recipient n residence in the Winter senester who has complement with wi</li></ul>
average (at least \$0%) in the required Physics courses normally taken in Year 2 and 3 of the major.         Amount:       1 award of \$500         J.M. Christie Prize [C0213]
Anount:       1 award of \$500         JM. Christie Prize [C0213]         Application not required.         Domor(s):       Dr. G.I. Christie         Qualification(s):       Gaduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.         Amount:       1 Plaque         JW. Skinner Medal in Social Science [C0260]         Established in honour of the many contributions of Dr. J. W. Skinner, a former Dearof the College of Social Sciences. Application not required.         Donor(s):       Faculty, staff, alumni and students, of the former College of Social Sciences. Application not required.         Donor(s):       Faculty, staff, alumni and students, of the Department of Human Health and Nutritional Sciences from 1996-2001 and was involved in creating, teaching and where semester.         Donor(s):       HK 3HB Alumni Association         Donor(s):       HK/HB Alumni Association         Donor(s):       Full-time undergraduate student enrolled in a major within the Department of Human Health and Nutritional Sciences, who has made leadership contributions to the University and the completed in semester 2, 3, 4, 5 or 6 and Ii residence in the Winter semester who has a a cumulative 80% or who is in the top 10% of his/her program. The recipient in the winter semester who has a cumulative 80% or who is in the top 10% of his/her program. The recipient in the Winter semester who has a cumulative 80% or who is in the top 10% of his/her program. The recipient in the Winter semester who has a cumulative 80% or who is in the top 10% of
Invalue       Private of \$2000         JM. Christie Prize [C0213]       Ifelime contribution to the family fam. Apply to Student Financial Services         Application 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.       Mrs. Jim Stokman         Amount:       1 Plaque       Donor(s):       Mrs. Jim Stokman         JW. Skinner Medal in Social Science [C0260]       B.Comm., B.Sc. or B.Sc.(Env.). Students must have come from background and have demonstrated community/student invo both during high school and the first two semesters of Unive Amount:       1 award of \$600         John A. Archibald Memorial Scholarship [10014]       Amount:       1 award of \$600         Jonn (s):       Faculty, staff, alumni and students, of the former College of Social Science Qualification(s): Outstanding student with an interest in courses in the Depart Land Resource Science who has completed semester 6. The will be chosen on the basis both of high academic standing i paperticipation in extracurricular activities.         Jack K. Barclay Director of the School of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.       Donor(s):         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       Donor(s): Student Housing Services
J.M. Christie Prize [C0213]       1.         Application not required.       Donor(s):       Mrs. Jim Stokman         Qualification(s): Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.       Mrs. Jim Stokman         Amount:       1 Plaque       Donor(s):       Mrs. Jim Stokman         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 not required.       Donor(s):       Faculty. staff, alumni and students, of the former College of Social Sciences. Application not required.         Donor(s):       Faculty. staff, alumni and students, of the former College of Social Sciences. Application not required.       John A. Archibald Memorial Scholarship [10014]         Amount:       1 Medal       Mwarded in memory of John A. Archibald, former Director of the Horticultural Institute of Ontario. Apply to Student Financial Services by April 1.         Domor(s):       The friends and associates of the late John A. Archibald Memorial Scholarship [10014]         Awarded in nemory of John A. Archibald, former Director of the Horticultural Institute of Ontario. Apply to Student Financial Services by April 1.         Domor(s):       The friends and associates of the late John A. Archibald         Implementing HK 3940 Human Physiology. Apply by February 1st to the Char, Department of Human Health and Nutritional Sciences, who has completed HK*3940, Human Physiology with a minimum 70% average
<ul> <li>Donor(s): Dr. G.I. Christie</li> <li>Qualification(s): Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.</li> <li>Amount: 1 Plaque</li> <li>JW. Skinner Medal in Social Science [C0260]</li> <li>Established in honour of the many contributions of Dr. J.W. Skinner, a former Dean of the College of Social Sciences. Application not required.</li> <li>Domor(s): Faculty, staff, alumni and students, of the former College of Social Science. Application not required.</li> <li>Jack K. Barclay Physiology Scholarship [10491]</li> <li>Established in honour of Professor J.K. Barclay, Director of the School of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.</li> <li>Domor(s): HK/HB Alumani Association</li> <li>Qualification(s): Full-time undergraduate student enrolled in a major within the Department of Human Health and Nutritional Sciences, who has made leadership contributions to the University or the and the Winter semester.</li> <li>Domor(s): HK/HB Alumani Association</li> <li>Qualification(s): Full-time undergraduate student enrolled in a major within the Department of Human Health and Nutritional Sciences, who has ande leadership contributions to the University or the dimensity with a minimum 70% average and who has made leadership contributions to the University or the dimensity with a minimum 70% average and who has made leadership contributions to the University or the dimensity with a minimum 70% average and who has made leadership contributions to the University or the dimensity with a minimum 70% average and who has made leadership contributions to the University or the dimensity with a minimum 70% average and who has made leadership contributions to the University or the dimensity with a minimum 70% average and who has made leadership contributions to the University or</li></ul>
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:       I Plaque         JW. 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 not required.       B.Comm., B.Sc. or B.Sc. (Env.). Students must have come from background and have demonstrated community/student involved in the former College of Social Sciences. Application 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 Medal         Jack K. Barclay Physiology Scholarship [10491]         Established in honour of Professor J.K. Barclay, Director of the School of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester. 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 Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester. Donor(s):         John K.HRB Aluman Health and Nutritional Sciences, who has made leadership contributions to the University or the and who has made leadership contributions to the University or the semester who has a made leadership contributions to the University or the semester who has a munulative 80% or who is in the t
<ul> <li>with the highest academic standing throughout eight semester levels.</li> <li>Amount: 1 Plaque</li> <li>J.W. Skinner Medal in Social Science [C0260]</li> <li>Established in honour of the many contributions of Dr. J.W. Skinner, a former Dean of the College of Social Sciences. Application not required.</li> <li>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.</li> <li>Amount: 1 Medal</li> <li>Jack K. Barclay Physiology Scholarship [10491]</li> <li>Established in honour of Professor J.K. Barclay, Director of the School 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 Charr, Department of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.</li> <li>Donor(s): HK/HB Aluman Association</li> <li>Qualification(s): Full-time undergraduate student enrolled in a major within the Department of Human Physiology with a minimum 70% average and who has made leadership contributions to the University or the</li> </ul>
Amount:       1 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 not required.         Donor(s):       Facuty, 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 Medal         Jack K. Barclay Physiology Scholarship [10491]         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. Awarded in the Winter semester.         Donor(s):       HK/HB Alumni Association 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
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 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 Medal         Jack K. Barclay Physiology Scholarship [10491]         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, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.         Donor(s):       HK/HB Alumni Association         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
<ul> <li>Amount: 1 award of \$600</li> <li>Amount: 1 award of \$1004</li> <li>Amount: 1 award of \$1004</li> <li>Amount: 1 award of \$1004</li> <li>Amount: 1 award of \$1,200</li> <li></li></ul>
<ul> <li>Established in honour of the many contributions of Dr. J.W. Skinner, a former Dean of the College of Social Sciences. Application not required.</li> <li>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.</li> <li>Amount: 1 Medal</li> <li>Jack K. Barclay Physiology Scholarship [10491]</li> <li>Established in honour of Professor J.K. Barclay, Director of the School of Human Health and from 1989-1991. He was the first chair of the Department of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.</li> <li>Donor(s): HK/HB Alumni Association</li> <li>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</li> </ul>
<ul> <li>Awarded in memory of John A. Archibald, former Director of the Horticultural Institute of Ontario. Apply to Student Financial Services by April 1.</li> <li>Awarded in memory of John A. Archibald, former Director of the Horticultural Institute of Ontario. Apply to Student Financial Services by April 1.</li> <li><i>Jack K. Barclay Physiology Scholarship</i> [10491]</li> <li>Established in honour of Professor J.K. Barclay, Director of the School 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. Awarded in the Winter semester.</li> <li><i>Donor(s):</i> HK/HB Alumni Association</li> <li><i>Qualification(s):</i> 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</li> </ul>
Donor(s):       Presented to the C.S.A.H.S. Winegard Medal nominee.         Amount:       1 Medal         Jack K. Barclay Physiology Scholarship [I0491]       Institute of Ontario. Apply to Student Financial Services by April 1.         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 Function of the Department of the Department of the Department of the Department of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester.         Donor(s):       HK/HB Alumin Association         Qualification(s):       Student Housing Services         Donor(s):       HK/HB Alumin Association         Qualification(s):       Student Housing Services         Qualification(s):       Student Housing Services         Qualification(s):       Student Housing Services         Donor(s):       Michter Semester 2, 3, 4, 5 or 6 and lir         residence in the Winter semester who has a cumulative 80% or who is in the top 10% of his/her program. The recipient moresipient moresidence in the Winter semester who has a cu
Domor(s):The friends and associates of the late John A. ArchibaldJack K. Barclay Physiology Scholarship [I0491]Domor(s):The friends and associates of the late John A. ArchibaldJack K. Barclay Physiology Scholarship [I0491]Domor(s):The friends and associates of the late John A. ArchibaldEstablished 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. Awarded in the Winter semester. Donor(s):HK/HB Alumni Association 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 theJohn Eccles Scholarship [10093]Nominations, accompanied by appropriate resumes, are to be submitted to Financial Services by April 1. Donor(s):Donor(s):Student Housing Services Qualification(s): Full-time student registered in semester 2, 3, 4, 5 or 6 and line residence in the Winter semester who has a cumulative 80% or who is in the top 10% of his/her program. The recipient m
Jack K. Barclay Physiology Scholarship [10491]Jack K. Barclay Physiology Scholarship [10491]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. Awarded in the Winter semester. Donor(s):Qualification(s): Outstanding student with an interest in courses in the Depart Land Resource Science who has completed semester 6. The will be chosen on the basis both of high academic standing a participation in extracurricular activities.John Eccles Scholarship [10093]John Eccles Scholarship [10093]Nominations, accompanied by appropriate resumes, are to be submitted to Financial Services by April 1.Donor(s):Bull Hitting Alumni Association 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
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. Awarded in the Winter semester. Donor(s): HK/HB Alumni Association 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
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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. Awarded in the Winter semester.       Amount: 1 award of \$1,200         John Eccles Scholarship [10093]       John Eccles Scholarship [10093]         Nominations, accompanied by appropriate resumes, are to be submitted to Financial Services by April 1.         Donor(s):       HK/HB Aluman 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
Department of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community. Awarded in the Winter semester. Donor(s): HK/HB Alumni Association 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
contributions to the University and the community. Awarded in the Winter semester.         Donor(s):       HK/HB Alumni Association         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    Nominations, accompanied by appropriate resumes, are to be submitted to Financial Services by April 1. Donor(s): Student Housing Services Qualification(s): Full-time student registered in semester 2, 3, 4, 5 or 6 and lir residence in the Winter semester who has a cumulative 80% or who is in the top 10% of his/her program. The recipient m
Donor(s):       HK/HB Alumni Association       Financial Services by April 1.         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       Financial Services by April 1.
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       Donor(s):       Student Housing Services         Qualification(s):       Full-time student registered in semester 2, 3, 4, 5 or 6 and lirresidence in the Winter semester who has a cumulative 80% or who is in the top 10% of his/her program. The recipient matching
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 or who is in the top 10% of his/her program. The recipient n
completed HK*3940, Human Physiology with a minimum 70% average and who has made leadership contributions to the University or the or who is in the top 10% of his/her program. The recipient n
outside community. demonstrated responsibility and leadership qualities through
Amount:       1 award of \$500       participation in residence related activities. Residence Life S         James I. Hunt Scholarshin [10603]       paid members of Interhall Councils are not
James L. Hunt Scholarship [10603] Amount: 1 award of \$600
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 John T. Powell Scholarship [10237]
cannot be held with any other awards offered by the Department of Physics. Application Apply to the Department of Human Health and Nutritional Sciences (H.H.N
not required. Department of Physics of the annual HHNS Symposium at the organication of the symposium at the symposium
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% Donor(s): Human Kinetics Alumni Association
cumulative average. <i>Qualification(s):</i> Full-time students enrolled in any honours program within t
Amount: 1 award of \$1,500 Department of H.H.N.S. with a minimum 10.0 credits and a r
James L. Mottin Award for Academic and Extracurricular Excellence [C0344]
Provided by the Department of Psychology to recognize its particle for the Wincord Symposium and other on-campus extra-curricular activities.
Medal. Apply to the Department of Psychology Undergraduate Academic Counsellor
ivicual. Apply to the Department of Esychology Undergraduate Academic Counsenor
by January 15th, including a list of extracurricular activities. Kae and Gordon Skinner Memorial Scholarship [C0258]
by January 15th, including a list of extracurricular activities.  Kae and Gordon Skinner Memorial Scholarship [C0258]  Resulted by the late Kae Steller Skinner (Mae 120) and Corden Skinner (O
by January 15th, including a list of extracurricular activities. Donor(s): The Department of Psychology Oualification(s): Student must be enrolled in the B.A. Honours program or the honours
by January 15th, including a list of extracurricular activities.       Kae and Gordon Skinner Memorial Scholarship [C0258]         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
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
by January 15th, including a list of extracurricular activities.Kae and Gordon Skinner Memorial Scholarship [C0258]Donor(s):The Department of PsychologyQualification(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.Kae and Gordon Skinner Memorial Scholarship [C0258]Provided by the late Kae Stalker Skinner (Mac '30) and Gordon Skinner (O. former Registrar of the Ontario Institute of Agrologists. Consideration will be participation in the Student Branch of the Ontario Institute of Agrologists. Student Financial Services by April 1. Donor(s):Donor(s):The estates of the late Mr. and Mrs. A.G. Skinner
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           Kae and Gordon Skinner Memorial Scholarship [C0258]    Provided by the late Kae Stalker Skinner (Mac '30) and Gordon Skinner (O. former Registrar of the Ontario Institute of Agrologists. Consideration will be participation in the Student Branch of the Ontario Institute of Agrologists. Student Financial Services by April 1.    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 Estates of the B.Sc.(Agr.), B.SC., or Estates of the B.Sc. Student graduating from the B.Sc.(Agr.), B.SC., or Estates of the B.Sc. (Agr.), B.S
by January 15th, including a list of extracurricular activities.Kae and Gordon Skinner Memorial Scholarship [C0258]Donor(s):The Department of PsychologyQualification(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.Frovided by the late Kae Stalker Skinner (Mac '30) and Gordon Skinner (O. former Registrar of the Ontario Institute of Agrologists. Consideration will be participation in the Student Branch of the Ontario Institute of Agrologists. Student Financial Services by April 1. Donor(s):Donor(s):The estates of the late Mr. and Mrs. A.G. Skinner

Kenneth James Berg Memorial Scholarship [10370]	Lange and Prokipcak Chemistry Scholarship [I0528]
Established by Friends and Family in memory of Ken Berg, a 1982 C.B.S. Microbiology	This scholarship was established by Professor Gordon L. Lange, Professor Joe M
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 not required.	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 o
Donor(s): Family and friends of Ken Berg	eleven teaching awards. Application not required.
<i>Qualification(s):</i> 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.	Donor(s): Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues
Amount: 1 award of \$1,000	Qualification(s): Student in C.P.E.S. with the highest average grade in
Kenneth W. Hammond Award [10045]	CHEM*1040,1050 and 2700 who has completed a minimum of 10.0 credits up to a maximum of 14.75 credits.
The evaluation of the student will be based on the final essay in the "Environmental	Amount: 1 award of \$1,000
Perspectives and Human Choice: 5000 Days" course. The selection committee will be	Leibniz/Newton Scholarship [I0156]
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 not required.	Established in honour of two founding fathers of calculus. Awarded in the Fall semester
Donor(s): Kenneth W. Hammond	Not tenable with the T.D. Newton Memorial Scholarship. Application not required.
<i>Qualification(s):</i> Student who has best demonstrated an understanding of the world's	Donor(s): The Department of Mathematics and Statistics
resource situation and its proper use by humankind.	Qualification(s): A second year student majoring in mathematics or statistics (i.e. one
Amount: 1 award of \$1,000	who has completed a minimum of 5 credits up to a maximum of 9.7
Kip Hunter Prize [I0139]	credits) who has a cumulative average of at least 80% and the highes grades over 80% in MATH*1200 and MATH*1210. A student may
For the best essay, written by an undergraduate in a philosophy course. The essay may	be considered for this award only once.
be either a required assignment for a course (in which case either the student or the	Amount: 1 award of \$500
instructor may submit it) or it may be specially prepared for the competition. Submission	Leonard Conolly Exchange Student Scholarship [10446]
of essays is to the Chair, Department of Philosophy, by the end of the 12th week of the Winter semester.	Established by students, faculty, staff and friends to honour Prof. Leonard Conolly
<i>Donor(s):</i> Faculty, students and staff of the Philosophy Department	professor of drama, Chair of the Department of Drama, 1981-88, and Associat
<i>Qualification(s):</i> Any undergraduate who has registered for a philosophy course during	Vice-President Academic, 1988-1992. Apply to the Centre for International Program
the academic year in which the prize is awarded.	by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by th
Amount: 1 Book prize	Centre for International Programs, will be based on assessment of (a) a one-pag submission describing the significance of the student visiting Guelph to the program of
Lambda Foundation Scholarship in LBGT Studies [10591]	study at the partner exchange university (b) two faculty references of one-page each
This award is provided to encourage research on the subject of lesbian, bisexual, gay	and (c) consistent high performance in the course work completed, as documented by
and transgendered (LBGT) peoples. The scholarship is based upon areas of research	transcript of program grades to date, submitted by the home university.
pertaining to the history, contributions, and issues by or about LBGT peoples. Preference	Donor(s): Students, staff, faculty and friends of Dr. Leonard Connolly
will be given to an applicant who is involved in the LBGT community as demonstrated	<i>Qualification(s):</i> Full-time visiting exchange undergraduate or graduate student,
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	registered at Guelph for at least one semester, from any country in th South (a list of eligible countries and exchange partner universities i
academic pursuits. This scholarship may be awarded to a given student only once. Projects	available in the Centre for International Programs).
must have been completed or research proposals accepted within the past calendar year.	Amount: 1 award of \$1,000
Apply to the Dean of Arts by December 15th including the research proposal or completed	Lionel Bradley Pett Scholarships [I0486]
project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.	This scholarship was established through the generosity of Dr. Lionel Bradley Pett, a
Donor(s): Lambda Foundation and other donors	O.A.C.'30 alumnus, and a life-long contributor to nutritional sciences in Canada, to
<i>Qualification(s):</i> Students enrolled in a program with a thesis, a research essay,	recognize academic excellence. Application not required.
independent research project or course work programs pertaining to	Donor(s): Lionel Bradley Pett
lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly	Qualification(s): Full-time B.Sc. students who have declared a major offered by the
defined by the applicant.	Department of Human Health and Nutritional Sciences. The awards are allocated to the three students, with the highest cumulative averages
Amount: 1 award of \$1,000	who have completed 5.0, 10.0 and 15.0 to 15.75 credits respectively
Land Resource Science Academic Scholarship [C0425]	Amount: 3 awards of \$2,500
Provided by the Land Resource Science Endowment fund. Application not required.	MacKenzie Scholarship [I0398]
Donor(s): Provided by the Land Resource Science Endowment Fund	In honour of University Professor Emeritus Innes K. MacKenzie. Not tenable with th
<i>Qualification(s):</i> Student graduating from any major in the department with the highest cumulative average.	Egelstaff Scholarship. Application not required.
Amount: 1 award of \$1,000	Donor(s): Department of Physics
	<i>Qualification(s):</i> Students who have completed 12.5 course credits and are currently
Land Resource Science Achievement Scholarship [C0426]	registered in one of the majors in physics. It is given to a student wit
Provided by the Land Resource Science Endowment fund. Apply to Student Financial Services by April 1.	a high cumulative standing (of at least 80%) in the required physics
Donor(s): Provided by the Land Resource Science Endowment Fund	Amount: 1 award of \$500
<i>Qualification(s):</i> Student graduating from any major in the department with a minimum	
cumulative average of 70%. Preference will be given to students	MacNaughton Scholarship [I0422]
contributing to student life on campus and/or community activities.	Established by Earl B. MacNaughton, former head of the Department of Physics an founding Dean of the College of Physical Science. Awarded in the Winter semester
Amount: 1 award of \$1,000	Application not required.
	Donor(s): Earl B. MacNaughton
	<i>Qualification(s):</i> 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 semester
	2 1 and 5 of the major
	3, 4 and 5 of the major. Amount: 1 award of \$500

Mag MaEwan Mamanial Sabalasshin [10195]	O.A.C. 155 Scholowshing [10064]
Mae McEwen Memorial Scholarship [I0185] Apply to Student Financial Services, by April 1.	O.A.C. '55 Scholarships [10064] Provided by the class of O.A.C. '55. Apply to Student Financial Services by April 1.
Donor(s): The estate of Mae McEwen	Donor(s): O.A.C. '55
<i>Qualification(s):</i> Student who has completed semester 6 of the Environmental Biology	Qualification(s): Students who are registered in any O.A.C. degree program or students
major in the B.Sc. or B.Sc (Env.) programs with a cumulative average	enrolled in the B.ENG. program and have completed semester 4.
of 80% or better. Participation in extra curricular activities related to	Recipients will have made an outstanding contribution to College life
<i>Amount:</i> 1 award of \$1,200	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. Recipients must
Maple Leaf Foods Inc. Shur-Gain Scholarship [I0307]	have a 70% minimum cumulative average.
Provided by Shur-Gain, a member of Maple Leaf Foods Inc. Apply to Student Financial Services by April 1.	Amount: 1 award of \$2,000
Donor(s): Shur-Gain	O.A.C. Centennial Graduate Fellowships [C0209]
<i>Qualification(s):</i> Undergraduate in Animal Science or Animal Biology who has high	The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many
academic standing during the first 4 semesters and is continuing in	organizations and companies associated with the agricultural industry provided funds
that program. Positive evidence of leadership and contribution to	in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commemoration of the Centennial of the College. Apply to Student
<i>Amount:</i> 1 award of \$750	Financial Services by April 1.
	Donor(s): Dean, O.A.C.
Marion McKenzie Prizes for Outstanding Achievement in History [I0470]	Qualification(s): Students graduating from a degree program administered by the Ontario
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	Agricultural College and who plan to pursue graduate studies in any
and present. These are awarded to the top student in each of the required core courses	department or school of the Ontario Agricultural College in the year of baccalaureate graduation are aligible for these fallowships. The
in the History program (HIST*1010, HIST*2450, HIST*2602). Application not required.	of baccalaureate graduation are eligible for these fellowships. The fellowship will be based on academic achievement in semesters 7 and
Donor(s): TBA	8, as well as participation in extracurricular activities throughout the
Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0	student's university career.
credits; the recipient for HIST*2450, no more than 10.0 credits and be	Amount: 2 awards of \$2,200
in the history program; and the recipient for HIST*2602, no more than 10.0 credits.	O.A.C. Students' Federation Medal [C0217]
Amount: 3 awards of \$250	Application not required.
Mathematics Graduation Prize [C0182]	Donor(s): O.A.C.
Awarded at Summer Convocation. Application not required. One award of \$250 and a	<i>Qualification(s)</i> : Graduating student in an undergraduate degree program in a major in
commemorative plaque.	an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.
<i>Donor(s):</i> Faculty members, who will be anonymous, through the College of Physical	Amount: 1 Medal
Science and Engineering Expendable Scholarship Fund	Ontario Dairy Council Scholarship [C0221]
Qualification(s): The graduating student who has majored in mathematics and who in	The Ontario Dairy Council offers this scholarship in honour of the late P. Bruce Scott.
the past year has graduated from an honours degree program with the highest cumulative average over 80%.	Application not required.
Amount: 1 award of \$250	Donor(s): Ontario Milk Distributors' Association
McCormick Canada Inc. Food Science Scholarship [I0410]	Qualification(s): Student who shows proficiency in courses related to the market milk
Provided by McCormick Canada Inc. Apply with a completed Financial Need Assessment	industry at the conclusion of the 8th semester level of the Food Science
Form (N.A.F.) to Student Financial Services by October 7. Students will be considered	program. Amount: 1 award of \$1,000
for this award automatically once a N.A.F has been submitted by the deadline date.	Ontario Food Processors Association Scholarship [C0222]
Awarded in the Winter semester.	-
Donor(s): McCormick Canada Inc.	This award is offered by Ontario Food Processors' Association. Application not required.
<i>Qualification(s):</i> Students in the B.Sc. Food Science major who have financial need. In-course students must have maintained at least a 70% cumulative	Donor(s):         Ontario Food Processors' Association           Qualification(s):         Most outstanding student of the graduating class of Food Science major
average, while first semester students must have had a 70% average	who has shown proficiency in courses related to food processing.
in high school science courses. Students may hold the award once	Amount: 1 award of \$1,000
unless there are no other eligible candidates in a subsequent year.	Ontario Food Protection Association Scholarship [I0223]
Amount: 1 award of \$2,000	Apply to Student Financial Services by April 1.
Michael DiGirolamo Scholarship [10571]	Donor(s): Ontario Food Protection Association
Established in memory of Michael DiGirolamo, a second year biology student, who	Qualification(s): Student majoring in Food Science entering the 7th semester with a
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	minimum cumulative standing of 70%. Priority will be given to students
with an active interest in language studies. Selection will be based on a combination of	who have demonstrated academic proficiency in quality assurance,
academic achievement and demonstrated active involvement in student activities. Apply	Amount: and who have participated in extra curricular activities.
by April 1 to the O.A.C. Awards Committee with a letter of no more than two pages	Oxford County Pork Producers Scholarship (Degree) [I0531]
outlining involvement in student life and active interest in language studies.	
Donor(s): Friends and family of Michael DiGirolamo	The Oxford County Pork Producers have made available this scholarship. Apply to O.A.C. Awards Committee by April 1 with a letter of up to two pages in length including
<i>Qualification(s):</i> Students majoring in Animal Biology with a minimum cumulative average of B+, and a minimum 10.0 course credits completed.	information about leadership, community involvement and pork industry involvement.
Amount: 1000 awards of \$1	Donor(s): Oxford County Pork Producers
Monroe Landon Memorial Scholarship [C0153]	Qualification(s): Any student who has completed a minimum of 5.0 credits in an O.A.C.
Preference will be given to a student residing in the region of Haldimand Norfolk. Apply	degree program with a minimum cumulative average of 70%, pork
by letter, with a transcript, to the Chair, Department of Integrative Biology by January	production background or interest in pork production/industry, and demonstrated leadership and/or community involvement. Preference
31 indicating experience in the field of botany/conservation.	will be given to students from Oxford County or surrounding area.
Donor(s): The friends of Monroe Landon	Amount: 1 award of \$1,000
<i>Qualification(s):</i> Students that have completed a minimum of 17.0 credits in honours	
Plant Biology or Ecology with a minimum cumulative average of 70%	
and demonstrates an active interest in the conservation of native species and field research.	
and demonstrates an active interest in the conservation of native species and field research. Amount: 1 award of \$550	

164 IX. Scholarships and Other Awards, Bachelor of Science				
Peter Mann Aw	vard for Embryology [I2032]	R.C. Moffatt M	lemorial Scholarship in Mathematics or Statistics [10536]	
	leagues and friends of Dr. Mann, a scholar and teacher of Embryology . Application not required.		was established by the Estate of Professor R.C. Moffatt. A student may or this award in both third and fourth years. This award is not tenable	
Donor(s):	Colleagues and friends of Dr. Mann		Department of Mathematics or Statistics scholarships . Application not	
	Student from any degree program completing the course BIOM*3040	required.		
	(Biomedical Embryology), with the highest academic standing.	Donor(s):	Estate of Professor R.C. Moffatt	
Amount:	1 award of a book prize (approx. value \$100)	Qualification(s)	Student in year 3 or 4 (i.e., who has completed a minimum of 10.0	
Pharmacia & U	pjohn Award in Microbiology [I0295]		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	
	inter Semester by the Pharmacia Company of Canada. Not tenable with		high cumulative average over 80%.	
	rial Scholarship. Application not required.	Amount:	1 award of \$900	
Donor(s):	Pharmacia & Upjohn International Inc.	R.C. Moffatt M	lemorial Scholarship in Physics [10535]	
Qualification(s):	Student enrolled in the B.Sc. Microbiology major who has completed the 7th semester level with the highest cumulative average in those	This scholarship	p is awarded in the winter semester to the student with the highest	
	core courses offered by the Department of Molecular and Cellular		age over 80%. This award is not tenable with any other Department of	
	Biology.		ships . Application not required.	
Amount:	1 award of \$500	Donor(s):	Estate of Professor R.C. Moffatt : Student who have completed a minimum of 10.0 credits up to a	
	anford Reid Trust Prize [10597]	Qualification(s)	maximum of 19.75 credits and is enrolled in a physics major.	
	onour the first chair of the History Department, Stanford Reid, and his	Amount:	1 award of \$900	
	Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the	<b>Robert Harcou</b>	rt Scholarships [I0121]	
	ering letter including contact information to the Department of History		stablished by the late Mrs. R. Harcourt in honour of the late Dr. Robert cation not required.	
Donor(s):	Priscilla and Stanford Reid Trust Fund	Donor(s):	Established by the late Mrs. R. Harcourt in honour of the late Dr. Robert	
Qualification(s):	Any student submitting an essay on the history of Presbyterianism	Qualification	Harcourt : Students who have completed the 4th or 6th semester levels with an	
Amount:	and/or Reformed tradition. 1 award of \$500	Qualification(s)	interest in courses in the Department of Land Resource Science.	
-	re and Methodology Scholarship [10345]	Amount:	2 awards of \$1,250	
	Department of Psychology. Application not required.	Robert Orr La	wson Second Year Microbiology In-course Scholarship [I0498]	
Donor(s):	The Department of Psychology	Provided through	h a generous bequest from the estate of Robert Orr Lawson with matching	
	Student enrolled in the B.A. honours program or the honours		Department of Molecular and Cellular Biology to encourage study and	
2	specialization in the B.Sc. program majoring in Psychology who has		to microbiology of foods. The scholarship is paid over three years in	
	completed PSYC*2010 and PSYC*2360 and the Psychology core		\$1,000. The second and third payments are contingent upon obtaining a ge of 77% over the previous two semesters of continued study in the	
Amount:	course requirements. 1 award of \$200		who fail to qualify for a payment may re-qualify for the subsequent	
	nours Thesis Prize [10343]		ining a 77% or better average in the succeeding two academic semesters	
	Department of Psychology. Application not required.		ly. Apply to the Chair, Department of Molecular and Cellular Biology intent is to continue the Microbiology major in the following September.	
Donor(s):	The Department of Psychology	Donor(s):	Department of Molecular and Cellular Biology and the estate of the late	
	Student enrolled in the B.A. honours program or the honours	Donor(s).	Robert Orr Lawson	
~ ~ ~ ~	specialization in the B.Sc. program majoring in Psychology who has	Qualification(s)	Student with a minimum 80% average in the B.Sc. program at the	
	completed PSYC*4870 and PSYC*4880 and who submits the best		completion of the first two semesters of study who has declared a Microbiology major and has the highest cumulative average, providing	
	Psychology honours thesis in the previous Fall, Summer or Winter semesters. The winning thesis is selected from nominations by thesis		that the average grade is 80% or greater for 5 credits. This scholarship	
	supervisors.		may be held with any other awards, except the Microbiology Entrance	
Amount:	1 award of \$200		Bursary, or any of the other Robert Orr Lawson Microbiology	
Psychology Sen	ior Honours Scholarship [10342]	Amount:	Scholarships. 1 award of \$3,000	
Provided by the	Department of Psychology. Application not required.		wson Third Year Microbiology In-course Scholarship [10499]	
Donor(s):	Department of Psychology		h a generous bequest from the estate of Robert Orr Lawson with matching	
Qualification(s):	: Student enrolled in the BA Honours program or the honours		Department of Molecular and Cellular Biology to encourage study and	
	specialization in the BSc program majoring in Psychology, having the highest cumulative specialization average after completing at least		to microbiology of foods. The scholarship is paid over two years in	
	15.0 course credits, including those prerequisite courses associated		\$1,000. The second payments is contingent upon obtaining a minimum over the previous two semesters of continued full-time study (5 credits)	
	with the honours thesis PSYC*3370. Award may be held once only.	-	ply to the Chair, Department of Molecular and Cellular Biology by April	
Amount:	1 award of \$200	1 if the intent is	to continue the Microbiology major in the following September.	
	tistics Scholarship [I0102]	Donor(s):	Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson	
	nonour one of the founding fathers of statistics. Awarded in the Fall nable with the Year 3 Statistics Scholarship. Application not required.	<i>Qualification(s)</i>	: Student with a minimum 80% average in the B.Sc. program at the	
Donor(s):	Faculty, students and other affiliates of the Department of Mathematics and Statistics	~ (0)	completion of the first four semesters of full-time study (10 credits) who has declared a Microbiology major and has the highest cumulative	
Qualification(s):	Student majoring in statistics in year three (i.e. one who has completed		average, providing that the average grade is 80% or greater. This	
	a minimum of 10.00 credits up to a maximum of 14.75 credits) who		scholarship may be held with any other awards, except the	
	has a cumulative average of at least 80% and the highest grades over		Microbiology Entrance Bursary, or any of the other Robert Orr Lawson Microbiology Scholarships.	
	80% in STAT*2040 and STAT*2050 or equivalent. A student may be considered for this award once only.	Amount:	1 award of \$2,000	
Amount:	1 award of \$500			

Roche Award in Molecular Biology and Genetics [C0030]	Society of Management Accountants of Ontario Scholarship [C0268]
Application not required.	The scholarship will be awarded at summer convocation. Application not required. One
Donor(s): Roche Diagnostics	award of \$500 and a free course enrolment in the first complete CMA subject enrolled
Qualification(s): The award will be given to the student with the highest cumulative	in the Society's program.
average who convocated during the fall or winter semesters or will be	Donor(s): Society of Management Accountants, Grand River Chapter
convocating in the summer of the current academic year from the	<i>Qualification(s):</i> Full-time student graduating from B.Comm., B.A. (minor in Business
Bachelor of Science, Molecular Biology and Genetics major.	Administration), or B.Sc. (minor in Business Administration), or
Amount: 1 award of \$500	B.Sc.(Agr.) (major in Agriculture Business or Food Agriculture and Resource Economics), programs. Student with the highest average in
Ronald Ko Scholarship [10151]	the 2 courses Financial Accounting BUS*2220 and Intermediate
This scholarship represents income generated by a trust fund established by Dr. Ko. One	Accounting BUS*3330.
annual award is presented in the Winter semester. Application not required.	<i>Amount:</i> 1 award of \$500, and a free course enrolment in the first complete
Donor(s): Dr. Ronald Ko, Department of Integrative Biology, University of Hong Kong	CMA subject enrolled in the Society's program
Qualification(s): Student with the highest grade in the Wild Life Parasitology course	Statistics Graduation Prize [C0508]
(ZOO*3010) in the Department of Integrative Biology, currently	Awarded at Summer Convocation. Application not required. One award of \$250 and a
offered in the Fall semester.	commemorative plaque.
Amount: 1 award of \$500	Donor(s): College of Physical and Engineering Science
Sharon Marshall Memorial Prize [C0448]	<i>Qualification(s):</i> The graduating student who has majored in statistics and who in the
Established by the family in memory of their daughter, Sharon Marshall, an undergraduate	past year has graduated from an honours degree program with the
student from 1994-1997. Awarded by the College of Biological Science Awards	highest cumulative average over 80%.
Committee on the recommendation of the Plant Biology Council. Application not	Amount: 1 award of \$250, 1 Commemorative plaque
required.	Stephanie Wilken Volunteer Award [10449]
Donor(s): The family of Sharon Marshall	Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to
<i>Qualification(s):</i> Student graduating in the Plant Biology major with the highest	Student Financial Services with letter indicating the kind and extent of volunteer activities
cumulative average. Amount: 1 award of \$100, 1 Plaque	at the Wellness Centre by October 1. Selection committee is the Senate Committee or
	Awards on the recommendation of the Student Wellness Educator at the Wellness Centre
Shutt Memorial Scholarship [I0257]	Donor(s): Bev and Darlene Wilken
In honour of Professor D.B. Shutt and Dr. F.T. Shutt. Not tenable with the Upjohn Award.	Qualification(s): Student registered in any undergraduate degree program, who has been
Application not required.	a volunteer for at least two semesters at the Wellness Centre. The
Donor(s): Greta M. Shutt, B.Sc. (H.E.)	recipient will be selected on the basis of academic performance in all
<i>Qualification(s):</i> Awarded in the Winter semester to a student enrolled in the B.Sc.	courses to date and volunteer work at the Wellness Centre.
Microbiology major. The scholarship will be awarded on the basis of	Amount: 1 award of \$1,000
the highest cumulative average achieved over the 6 semester levels of the program.	Ted Newton Memorial Scholarship [I0198]
Amount: 1 award of \$500	Established in honour of Professor Ted Newton, the founding chair of the Department
Smucker Foods of Canada Graduation Award [C0248]	of Mathematics and Statistics. Awarded in the Fall semester. Application not required.
	Donor(s): Family, friends and colleagues of Dr. T.D. (Ted) Newton
Apply to the Chair, Department of Food Science by April 1 with a letter, of not more	Qualification(s): Student majoring in mathematics or statistics in year 2 (i.e. one who
than two pages, outlining your extracurricular activities and involvement in the university, college, and community.	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
Donor(s):         Smucker Foods of Canada           Qualification(s):         Graduating student in the Food Science major with a minimum 85%	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.
cumulative average with participation in extracurricular and	Amount: 1 award of \$1,500
demonstrated leadership qualities.	The Jack and Lillian MacDonald Scholarship [E0379]
Amount: 1 award of \$500	-
Smucker Foods of Canada Scholarship [10363]	Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald Vice-President, Academic, of the University of Guelph from 1986 to 1995, have
Apply to the Chair, Department of Food Science by April 1 with a letter, of not more	established a scholarship that recognizes their commitment to increasing the accessibility
than two pages, outlining your extracurricular activities and involvement in the university,	of post-secondary education to aboriginal persons. Apply by letter to Student Financia
college, and community.	Services by April 1.
Donor(s): Smucker Food of Canada	Donor(s): Jack and Lillian MacDonald
Qualification(s): Students majoring in Food Science who have completed 10.0 credits	Qualification(s): In the first instance, the award will be given to an entering student
with a minimum 85% cumulative average and a record of participation	coming from the Grand River Polytechnical Institute (GRPI) and who
in extracurricular activities and demonstrated leadership qualities.	has received the highest cumulative average in the Native University
Amount: 1 award of \$500	Access 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
Society of Chemical Industries Prizes in Biochemistry [C0478]	scholarship will be awarded to the in-course student who is a graduate of the GRPI who has the highest cumulative average at the University
Application not required.	Amount: 1 award of \$900
Donor(s): Society of Chemical Industry	Thomas H. Peters Scholarship [I0233]
Qualification(s): Students who have convocated from the Biochemistry Honours program	
or the Biochemistry Co-op program during the fall or winter semesters	Application not required.
or will be convocating in the summer of the current academic year	Donor(s): Friends and associates of Thomas H. Peters
with the highest cumulative average.	<i>Qualification(s):</i> Student in any academic program of the University who has completed
Amount: 1 Gold Key	courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum
Society of Chemical Industries Prizes in Chemistry/Applied Pharmaceutical Chemistry [C0333]	of 70% cumulative average and have demonstrated an interest and
Application not required.	Amount: 1 award of \$250
Donor(s): Society of Chemical Industry	
<i>Qualification(s):</i> 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 Engraved plaques	

2 Engraved plaques

Tony Anthony I	Prize in Comparative Vertebrate Anatomy [I0282]
	e late E.H. Anthony, Professor in the former Department of Zoology, be made for each semester in which the course is offered. Application
Donor(s):	Tony Anthony Memorial Fund
	Student who achieves the highest grade in course ZOO*2090, Vertebrate Structure and Function.
Amount:	1 award of \$125
Toronto Distric	t Beekeeper's Association Scholarship [I0285]
	offered by the Toronto District Beekeepers Association in memory of cLeod, past chair of the Association. Application not required.
	Mr. Jack Robinson The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
Amount:	1 award of \$500
	ship for Women in Mathematics and Statistics [10483]
of Mathematics award to the Dep	mma Tucker, B.Sc. Statistics, 1996, to encourage women in the study and Statistics. Apply by letter outlining activities and interest in the partment of Mathematics and Statistics main office by April 1.
Donor(s): Qualification(s): Amount:	Emma Tucker, B.Sc.'96 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. 1 award of \$500
	kers Local 4120 Scholarship [I0293]
	t Financial Services, by January 31.
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. 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, provided that a minimum of 70% standing is obtained.
Amount:	1 award of \$1,000
Application will forwarded to Stu	I Van Der Hoeven Memorial Scholarship [I0296]           be made by nominations signed by 4 currently registered students           ident Financial Services by April 1. Presentations are made in the Fall
semester. Donor(s):	Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven
Qualification(s): Amount:	& family 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. 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. 2 awards of \$400
W. Harold Mins	shall Scholarship [10451]
Provided by Dr. April 1.	W.H. Minshall (O.A.C.'33). Apply to Student Financial Services by
Donor(s): Qualification(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. Awarded on the basis of academic standing in the relevant courses and participation in extra curricular activities.
Amount:	1 award of \$1,000
W.C. Winegard	Medal [C0311]
of Guelph. One Senate Awards O	gard Medal is the most prestigious graduating award of the University student will be nominated by each College Awards Committee. The Committee will make the final selection and the medal will be awarded
	n June. Application not required.
Donor(s): Qualification(s):	The Board of Governors' of the University Graduating student who excels both academically and in extracurricular activities.
Amount:	1 Gold medal
	writer of Cycelmh Undergrady ate Colondan

W.N. Vaughan I	Viedal [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 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 Medal		
Wally Fraser M	athematics Scholarship [10544]		
	is named in honour of Professor Wally Fraser, a founding member of		
the Department of	of Mathematics and Statistics. A student may only be considered for Awarded in the Fall semester. Application not required.		
Donor(s):	The Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.E.S.		
Qualification(s): Amount:	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). 1 award of \$750		
	ngton CA Association Award [10367]		
	Waterloo-Wellington Chartered Accountant's Association. Awarded in		
	ster. Application not required.		
Donor(s):	Waterloo-Wellington Chartered Accountants Association		
Qualification(s):	Student who achieves the highest academic standing in the course		
A	BUS*3330, Intermediate Accounting. 1 award of \$100		
Amount:			
-	od Memorial Scholarship [10509]		
Established by the Department of Psychology, in honour of the late Wilma Hollywood, a long-serving staff member. Application 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 Mathema	atics Scholarship [10506]		
Awarded in the F	Fall semester. Application 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 earing 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 F	Fall semester. Application not required.		
Donor(s):	The Department of Mathematics and Statistics		
	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 earing 10.0 to 14.75 credits). A student may be considered for this award once only.		
Amount:	1 award of \$750		
in-course Sch	nolarships with Financial Need		
	olarships [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. Awarded in the Winter semester.			
	<b>3M Canada Company</b> Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.		
Amount:	2 awards of \$1,000		

#### Alf and Mary Hales Undergraduate Scholarship in Food Science [I4510]

Alf and Mary Hales, with the assistance of the Ontario government's OSOTF program have established this scholarship to Food Science students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7 To be considered for this award you must indicate it on the N.A.F. and include a statement outlining your interest in Meat Science. Awarded in the winter. ACCESS AWARD.

#### Alf and Mary Hales Donor(s):

	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).
1	Amount:	1 award of \$1,000

#### 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. Awarded to the students with the highest cumulative average. Awarded in the Winter semester. Not tenable with the Hagen Undergraduate Access Scholarship. ACCESS AWARD

#### Alumni and friends of C.B.S. Donor(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). 2 awards of \$500 Amount:

#### 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. Awarded in the Winter semester. This award may be held once only. ACCESS AWARD

Donor(s):	Established by a number of industrial, commercial and public sector
	corporations
Oualification(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). 1 award of \$750 Amount:

#### 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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7. 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 with more than 5.0 credits and less than 10.5 credits of full-time study, a minimum cumulative 70% average, demonstrated leadership 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. 1 award of \$2,000 Amount:

#### 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. Awarded in the Winter semester. ACCESS AWARD.

Earl B. MacNaughton Donor(s):

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. Awarded in the Winter semester. ACCESS AWARD.

#### The Family of Eleanor & Bill Archibald Donor(s):

I	Qualification(s):	Students registered in any program with a minimum of 5.0 credits who
I		have cumulative 70% average, has demonstrated community
I		involvement, and financial need. Additionally, students must meet the
I		government-mandated terms for receipt of an OSOTF award (See
I		General Statements on Awards).
I	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 April 1 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
Euclid-Hitachi	Scholarships [I4517]
government's O studies as full-ti	Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario SOTF program, to assist students with financial need to continue their me students. Apply with a completed Financial Need Assessment Form tent Financial Services by October 7. Awarded in the Winter semester RD
Donor(s):	Euclid-Hitachi of Canada Ltd.
Qualification(s)	3: 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

demonstrated financial need. Additionally, students must mee
government-mandated terms for receipt of an OSOTF award
General Statements on Awards).

Amount: 2 awards of \$1,500

#### 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. Apply to Student Financial Services with a letter describing on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial need. Preference will be given to members of the varsity football team. Examples of leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation on university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the winter semester.

Mrs. George A. Gray Donor(s): Qualification(s): Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have demonstrated leadership. 2 awards of \$1,250 Amount:

Gordon Ashton Scholarship [14535]	Hagen Undergraduate Scholarship [14525]
<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): C. Dixon More</li> <li>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</li> </ul>	<ul> <li>Established by Rolf Hagen, founding president of Rolf C. Hagen Inc., Canadian pet for and products supplier, with the assistance of the Ontario government's OSOTF program Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financia Services by October 7. Students will be considered for this award automatically once N.A.F has been submitted by the deadline date. Awarded to the students with the higher cumulative average. Awarded in the Winter semester. ACCESS AWARD Donor(s): Rolf C. Hagen Qualification(s): Students beyond semester 6 with demonstrated financial need. Award to the students with the highest cumulative averages in any major i the College of Biological Science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (se General Statements on Awards).</li> </ul>
General Statements on Awards).	Amount: 3 awards of \$800
Amount: 1 award of \$500	Jay Majithia Scholarship [I4518]
Graham Family Incentive Scholarship [14506]	Provided to honour Professor Jay Majithia, in recognition of his support and leadersh
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.) o Student Financial Services by October 7. Awarded in the Winter semester. ACCESS AWARD Donor(s): Harvey Graham O.A.C. '39 Qualification(s): Students entering the fourth year of a four year degree program,	<ul> <li>Provided to nonour Professor Jay Majitina, in recognition of his support and feadersh while a faculty member in the Department of Computing and Information Science, b Margaret Middleton, C.P.E.S. '86 with the assistance of the Ontario government's OSOT program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Stude Financial Services by October 7 and if applicable, attach a letter stating research intere and involvement. Awarded in the Winter semester. ACCESS AWARD. Donor(s): Mrs. Margaret L. Middleton</li> </ul>
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). 1 award of \$5,000 Graham, Fraser and Trevor Bosch Scholarships in Chemistry [14288]	<ul> <li>Qualification(s): Computer and Information Science students with demonstrated financineed who have a minimum cumulative program average of 70%.</li> <li>Preference will be given to eligible students who are applying for, or participating in, departmental research, including a special project of an independent study option. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> </ul>
Established by Mr. Martin Bosch of the Guelph Soap Company, with the assistance of he Ontario government's OSOTF program. Students with high academic standing	Amount: 2 awards of \$500
<ul> <li>registered in Year 3 (minimum of 10.00 - 14.75 credits) or Year 4 (at least 15.00 credits) of studies will be notified by the Awards Committee and Chair of the Department of Chemistry and advised to complete a Financial Need Assessment Form (N.A.F.) in Student Financial Services by February 1st. ACCESS AWARD</li> <li>Donor(s): Mr. Martin Bosch of the Guelph Soap Company</li> <li>Qualification(s): Outstanding undergraduate students in the B.Sc. Chemistry major, or in the B.Sc.(Tech.) Applied Pharmaceutical Chemistry program, who have demonstrated financial need. Of the recipients with demonstrated financial need, preference will be given to Year 3 students with the highest cumulative averages in at least three 2000 level chemistry courses taken in Year 2. In the event that there are no qualified candidates in Year 3, students in Year 4 will be considered, based on demonstrated financial need and the highest cumulative averages in at least three 3000 level chemistry courses taken in Year 2. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> </ul>	Keith Ronald Undergraduate Scholarship [I4532]         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 Financi Services, by October 7. To be considered for this award you must indicate it on you N.A.F. and indicate the semester you will be registered in the ZOO*4300 course. Awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Friends and Colleagues of Professor Keith Ronald         Qualification(s):       B.Sc. student, registered in C.B.S., who has completed at least 12.5 credits, who is entering the Marine Biology and Oceanography Cours ZOO*4300, held at the Huntsman Marine Science Centre, St. Andrew' New Brunswick, and has maintained a cumulative average of at least 80%. Additionally, students must meet the government-mandated term for receipt of an OSOTF award (see General Statements on Awards 1 award of \$1,500
Amount: 2 awards of \$1,500	MacNaughton ACCESS Scholarship in Physics [14523]
<ul> <li>Guelph Varsity Athletic Accessibility Scholarship [10518]</li> <li>Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October</li> <li>To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.</li> <li>Donor(s): Alumni and friends of the University of Guelph</li> <li>Qualification(s): Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0 credits).</li> </ul>	Established by Earl B. MacNaughton, former head of the Department of Physics ar         founding Dean of the College of Physical Science, and faculty, staff and alumni of th         Department of Physics, with the assistance of the Ontario government's OSOTF prograr         Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financi         Services by October 7. Students will be considered for this award automatically once         N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCES         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 of 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).

O.A.C. '52 Scholarships [I4538]		University of Guelph Retiree Association Degree Scholarship [I0569]
program. Apply b and/or university to Student Finan AWARD. Donor(s):	ass of O.A.C.'52, with the assistance of the Ontario government's OSOTF by letter highlighting involvement in leadership and community activities / life along with a completed Financial Need Assessment Form (N.A.F.) cial Services by October 7. Awarded in the Winter semester. ACCESS O.A.C. '52 • 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	<ul> <li>This bursary is available to students who are related to a member of the U.G.R.A. as child, grand-child, or great grand-child. Selection will be based on the greatest demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and relationship to the U.G.R.A. member.</li> <li>Donor(s): University of Guelph Retirees Association (U.G.R.A.)</li> <li>Qualification(s): Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need.</li> <li>Amount: 1 award of \$1,000</li> </ul>
Amount.	receipt of an OSOTF award (see General Statements on Awards). 2 awards of \$2,500	Walter and Marion MacDougald Scholarship [I4530]
		Established by the family of Walter and Marian MacDougald on the 50th wedding
<b>R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]</b> 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. Awarded in the winter. <i>Donor(s):</i> <b>Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy</b> <i>Qualification(s):</i> This scholarship will be awarded to a student in O.A.C. with high		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. To be considered for this award, you must list it on your N.A.F. and include a statemen that outlines your interests in food supply, utilization, farmland conservation or woodlo management. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. ACCESS AWARD. Doug MacDougald, D.V.M.
Amount:	academic achievement and demonstrated financial need. 1 award of \$1,000	<i>Qualification(s):</i> Students demonstrating financial need with a minimum of 10.0 credits and less than 15.0 credits and who are in the following
Scottish Studies	Foundation Scholarship [I4541]	programs/majors/minors: BASc, BSc(Agr), BSc(Env), BSc(Food
will be selected as well as overa	e assistance of the Ontario government's OSOTF program. The recipient on the basis of the number of and grades in the requisite courses listed all cumulative average to that point in the student's career. Apply to a Services by October 7 with a Financial Need Assessment Form (N.A.F.) RD	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).         2 awards of \$1,000
Donor(s):	Scottish Studies Foundation and private donors	Wellington Laboratories Scholarship [14308]
	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).	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. Highly qualified students will be notified by the Chair of the Department of Chemistry and the Department Awards Committee to complete a Financial Need Assessment Form (N.A.F.) and submit to Student Financial Services by February 1. Awarded in the Winter semester. ACCESS AWARD
Amount:	1 award of \$4,000	Donor(s): Mr. Brock Chittam of Wellington Laboratories
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. Awarded in the Winter semester. ACCESS AWARD.		Qualification(s): Students that have completed a minimum of 15.0 course credits of an honours major program offered by the Department of Chemistry. Student with demonstrated financial need and the highest cumulative averages in at least three 3000 level chemistry courses taken in semesters 5 or 6. 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):	Mr. Brock Chittim Students with demonstrated financial need in an undergraduate	William & Nona Heaslip Scholarship [10589]
	alification(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. 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	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. <i>Donor(s):</i> The William and Nona Heaslip Foundation
Amount:	2 awards of \$1,000	<i>Qualification(s):</i> Students that have completed 4.0 credits but no more than 6.0 credits in any degree program are a Canadian citizen/approxement resident:
Tara Lynn Giuliani Memorial Award [10375]		in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial
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 to the Centre for		need. Amount: 2 awards of \$15,000
	isabilities by November 25.	Yeandle Family Scholarships [13546]
Donor(s): Qualification(s): Amount:	The Giuliani Family • Most academically promising applicant with a demonstrated disability and having financial need. 1 award of \$500	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).

Several awards up to \$2,000

In-course Awards with Financial Need	Class of '72: 25th Reunion Bursaries [I3512]
Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [I3060]	Established by the Class of '72: 25th Reunion Fund with the assistance of the Ontario
Offered by Archie and Isabelle (Cook) Rintoul of A.C. 'Darsary (Ecoor) 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. Awarded in the winter.	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. Awarded in the Winter semester. ACCESS AWARD.
Donor(s):       Archie and Isabelle (Cook) Rintoul         Qualification(s):       Students registered in the department of Environmental Biology in the B.Sc., B.Sc.(Agr.) or the B.Sc.(Env.) degree programs who have completed a minimum of 10.0 credits and who have demonstrated financial need.         Amount:       1 award of \$500	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
Bette Stephenson Accessibility Bursary [13054]	Class of O.A.C. '33 Bursaries [I3531]
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. <i>Donor(s):</i> University of Guelph	<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li><i>Donor(s):</i> Class of 1933 (in honour of the late Prof. WIJ. Squirrell)</li> <li><i>Qualification(s):</i> 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</li> </ul>
Qualification(s): Undergraduate students who have demonstrated financial need and	Class of O.A.C. '36 Bursaries [I3501]
who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.	Established by the Class of O.A.C. '36 with the assistance of the Ontario government's
Amount: 3 awards to a maximum of \$1,500	
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. Awarded in the Winter semester. 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.) to Student Financial 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):       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	<ul> <li>OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): Class of 1936</li> <li>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).</li> <li>Amount: 2 awards of \$500</li> <li>Credit Valley Conservation Authority Foundation Bursary [I3007]</li> <li>Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial 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.</li> <li>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.</li> <li>Amount: 1 award of \$500</li> </ul>
receipt of an OSOTF award (see General Statements on Awards).	Provided in memory of David R. Leach by his family, with the assistance of the Ontario
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. Awarded in the Winter semester.	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 Financia Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS AWARD <i>Donor(s):</i> Mrs Deborah Leach-Sartor
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	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 financia 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

Elizabeth Burton Bursaries [13503]		Guelph Compassionate Health Bursary [I3061]
provides bursarie Financial Need A Students will be o by the deadline o Donor(s): Qualification(s): Amount:	<ul> <li>aurton, with the assistance of the Ontario government's OSOTF program, es to students with demonstrated financial need. Apply with a completed Assessment Form (N.A.F.) to Student Financial Services by October 7. considered for this award automatically once a N.A.F has been submitted date. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Mrs. Elizabeth Burton</li> <li>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).</li> <li>Several awards of up to \$2000</li> </ul>	This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.         Donor(s):       Student Health and Dental Plan Reserve         Qualification(s):       Students must be registered on the University of Guelph Student Health Plan. The student must require treatment for a condition not currently or completely covered by the Student Health Plan.         Amount       Scurent University 000
Food Science Co	o-op Bursaries [I3509]	Amount: Several varies to a maximum \$1,000
the assistance of Apply with a con Services by Octo N.A.F has been AWARD. Donor(s): Qualification(s): Amount: George and Ma	he Knechtel Scholarship fund and the Toronto section of CIFST, with the Ontario government's OSOTF program, to assist with Co-op fees. npleted Financial Need Assessment Form (N.A.F.) to Student Financial ober 7. Students will be considered for this award automatically once a submitted by the deadline date. Awarded in the winter. ACCESS Knechtel Scholarship Fund and the Toronto section of Canadian Institute of Food Science Technology • 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). 2 awards of \$1,500 rgaret J. Miles Memorial Bursary [13544] m formitute homeous the memory of the negret to Compare and Memorial L	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. Typically, awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Central Student Association         Qualification(s):       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).         Amount:       Several awards of varying amounts up to \$1,000
	he family to honour the memory of the parents, George and Margaret J. supporters of education. Apply with a completed Financial Need	Guelph Student Assistance Program [I3056]
Assessment For activities to Stud ACCESS AWAI Donor(s):	<ul> <li>m (N.A.F.) and a letter describing involvement in extra-curricular lent Financial Services by October 7. Awarded in the Winter semester. RD</li> <li>Established by the Miles Family</li> <li>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</li> </ul>	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. Typically, awarded in the Winter semester. 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]
	receipt of an OSOTF award (see General Statements on Awards).	
Amount:	2 awards of \$1,500	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
Established in n associates with tl a completed Fin- by October 7. St has been submit AWARD. <i>Donor(s):</i>	ry Bursaries in Food Science [13540] nemory of O.A.C. graduate '34 Gordon B. Henry by his family and he assistance of the Ontario government's OSOTF program. Apply with ancial Need Assessment Form (N.A.F.) to Student Financial Services tudents will be considered for this award automatically once a N.A.F ted by the deadline date. Awarded in the Winter semester. ACCESS Gordon B. Henry, O.A.C. '34 • Undergraduate and graduate 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)	<ul> <li>Financial Need Assessment Form (N.A.F.) to Student Financial 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.</li> <li>Donor(s): Mr. T.K.C. Karr, O.A.C. '32</li> <li>Qualification(s): O.A.C. students with demonstrated financial need Amount: Several varies</li> <li>Helen Mahon Memorial Bursary [13063]</li> <li>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 indicate on the N.A.F that you wish to</li> </ul>
Donor(s):	Undergraduate and graduate students registered in Food Science with demonstrated financial need. Additionally, students must meet the	Established in memory of Helen Mahon, a longtime employee of the Guelph and who, following the death of her husband, raised three young c all of whom graduated from university. Apply to Student Financial Servic

## Amount: Gryphon Investment Council Bursaries [I3513]

Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Awarded 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. 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): 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). 2 awards of \$1,500 Amount:

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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.		
	led in the Winter semester. ACCESS AWARD.	
Donor(s): Qualification(s): Amount:	<b>Central Student Association</b> 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). 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. Typically, awarded in the Winter semester.		
Donor(s):	Undergraduate Students	
	Full-time undergraduate students registered in any degree program with demonstrated financial need. 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. Awarded in the Winter semester.         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 M	Iemorial Bursary [13063]	
Guelph and who all of whom grac 7 with a Financi	nemory of Helen Mahon, a longtime employee of the University of , following the death of her husband, raised three young children alone, luated from university. Apply to Student Financial Services by October al Need Assessment Form and indicate on the N.A.F that you wish to r this award. Awarded in the winter. Family and Friends of Helen Mahon	
	Students registered in any program who come from a family where one parent is deceased. 1 award of \$500	

Howard and M	with Dogons Dunconics [[2527]	I adv Clangero Duvervice [[2596]
	yrtle Rogers Bursaries [13537]	Lady Glencora Bursaries [12586]
government's OS Form (N.A.F.) to for this award a	Estate of Howard and Myrtle Rogers, with the assistance of the Ontario SOTF program. Apply with a completed Financial Need Assessment o Student Financial Services by October 7. Students will be considered utomatically once a N.A.F has been submitted by the deadline date. Winter semester. ACCESS AWARD	Established by the Rathlyn Foundation, with the assistance of the Ontario governmen 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 awa automatically once a N.A.F has been submitted by the deadline date. Awarded in the winter. ACCESS AWARD
Donor(s): Qualification(s): Amount:	The Estate of Howard and Myrtle Rogers 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). 10 up to \$2,000	Donor(s):       The Rathlyn Foundation         Qualification(s):       Undergraduate students in the D.V.M. program, students registered the Faculty of Graduate Studies and enrolled in a department of the Ontario Veterinary College, and undergraduate students in the honor B.Sc. (Bio-Med) program who have demonstrated financial need. Additionally, students must meet the government-mandated terms freeeipt of an OSOTF award (see General Statements on Awards).         Amount:       Several awards of \$5,000
International E	mergency Medical Aid Assistance [I3059]	Leroux Bursaries [13535]
are faced with un covered by UHII to the Internation completing an I submitting docum an on-going basi <i>Donor(s):</i>	University of Guelph Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.	Established by Mr. Hector Leroux, O.A.C.'44, with the assistance of the Ontar government's OSOTF program. Apply with a completed Financial Need Assessme Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline dat Awarded in the Winter semester. 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. Additionall students must meet the government-mandated terms for receipt of a OSOTF award (see General Statements on Awards).         Amount:       4 awards of \$1,000
Amount:	Several awards of varying amounts	Margaret Rich Bursary [I3055]
International St	tudent Bursaries [I3009]	Established to assist students with an academic interest in animal nutrition. Apply b
International Stu Donor(s):	Valeriote has made available a number of bursaries. Apply to the ident Advisor. Mrs. Norma L. Valeriote 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. Several of varying amounts	October 7 with a completed Financial Need Assessment Form (N.A.F.) Form and a lettindicating interest in animal nutrition.         Donor(s):       Jean Rich Foundation         Qualification(s):       Students registered in a B.Sc honours program who have completed minimum of 10.0 credits where a minimum of 2.0 credits where earn in nutrition courses.         Amount:       1 award of \$6,000
	ce Black Memorial Bursary [I3051]	Marie Hardacre Bursary [13548]
Established in m their many contri judge at College active in the Wo Services with a outlining involve in the Winter ser Donor(s): Qualification(s):	hemory of Irvine and Grace Black, by friends and family to recognize ributions to young people. Irvine, a well-known sheep breeder, was a Royal and the Royal Winter Fair for over fifty years, and Grace was omen's Institute and the Fergus Fall Fair. Apply to Student Financial completed Financial Need Assessment Form (N.A.F.) and a letter ment in the 4-H Club and/or a Women's Institute by October 7. Awarded mester. Family and friends of Irvine and Grace B.L.A.ck 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.	<ul> <li>Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHS wi 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 complete Financial Need Assessment Form. Students will be considered for this awa automatically once a N.A.F has been submitted by the deadline date. Awarded in the winter semester. ACCESS AWARD.</li> <li>Donor(s): Mrs. A. Marie Hardacre Qualification(s): Students registered in any academic program in the College of Soci- 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).</li> <li>Amount: 1 award of \$4,500</li> </ul>
Amount:	1 award of \$500	Mary I. Whitelock Bursaries [I3524]
Robert Jack and George and Mar is not tenable w Need Assessmen considered for t indicating your is belong to. Award <i>Donor(s):</i>	Margaret Baker Bursary [13052] M. Ismay Martin provide this bursary in memory of Ismay's parents, garet Baker in recognition of the contributions to society. This award ith other Senate Awards. Apply by letter with a completed Financial nt Form (N.A.F.) to Student Financial Services by October 7. To be his award, you must list it on your N.A.F. and include a statement interest in functional foods and/or the rural community in which you ded in the Winter semester. Robert Jack and M. Ismay Martin • 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.	<ul> <li>Established by the estate of Mary I. Whitelock, a friend of the University, with t assistance of the Ontario government's OSOTF program, to assist students who wish study full-time but who need financial support to do so. Apply with a completed Financ Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Studer will be considered for this award automatically once a N.A.F has been submitted by t deadline date. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Donor(s): Estate of Mary I. Whitelock</li> <li>Qualification(s): Students with demonstrated financial need. Additionally, students mumet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> <li>Amount: 13 awards of \$2,000</li> </ul>

Various awards totalling \$5,000

IX. Scholarships and Other Awards, Bachelor of Science	173
Masterfeeds Bursaries [I3514]	Ontario Cattlemen's Association Degree Bursary [13506]
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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> <b>Masterfeeds</b> <i>Qualification(s):</i> 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). <i>Amount:</i> 4 awards of \$500	<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Donor(s): Ontario Cattlemen's Association <i>Qualification(s)</i>: 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).</li> <li>Amount: 4 awards of \$500</li> </ul>
O.A.C. '38 Lloyd Minshall Bursaries [13529]	Ontario Co-operatives R.P. Forshaw Bursary [I3013]
<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '38 Alumni</li> <li>Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8 and O.A.C. graduate students are eligible to apply. Additionally, students must meet the government-mandated</li> </ul>	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. Awarded in the Winter semester.         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
terms for receipt of an OSOTF award (see General Statements on	Ontario Federation of Agriculture Bursaries [13520]
Awards).Amount:7 awards of \$1,000	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
<ul> <li>O.A.C. '55 Access Bursaries [I3517]</li> <li>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. Awarded in the Winter semester. ACCESS AWARD.</li> <li>Donor(s): O.A.C. Class of '55</li> <li>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).</li> </ul>	<ul> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li><i>Donor(s):</i> Ontario Federation of Agriculture</li> <li><i>Qualification(s):</i> 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).</li> <li><i>Amount:</i> 12 awards of \$500</li> </ul>
Amount: Several awards of \$500	Ontario Grape Growers Bursary [I3033]
<ul> <li>O.A.C. '57 Bursaries [I3518]</li> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. '57 and the O.A.C. Alumni Foundation</li> <li>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).</li> </ul>	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. Awarded in the Winter semester.         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
Amount: 5 awards of \$1,000	Office of Registrarial Services, family and friends of Robert Auger, a former Associate
<ul> <li>O.A.C. Alumni Foundation Access Bursaries [I3533]</li> <li>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. Awarded in the Winter semester. ACCESS AWARD</li> <li>Donor(s): O.A.C. Alumni Foundation</li> <li>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).</li> <li>Amount: 4 awards of \$500</li> </ul>	<ul> <li>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.</li> <li>Donor(s): Office of Registrarial Services</li> <li>Qualification(s): Students who require assistance through this fund should apply in confidence to the Assistant Registrar, Financial Aid, Student Financial Services.</li> <li>Amount: Several awards of \$500</li> </ul>

1/4	IX. Scholarships and Other Awards, Bachelor of Science
Ron Scriver Memorial Bursary [13547]	University of Guelph Child Care Bursaries [I3053]
Established in memory of Mr. Ron Scriver (1946 - 32005) 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. <i>Donor(s):</i> <b>Family and Friends of Ron Scriver</b> <i>Qualification(s):</i> Students registered in any program offered by C.P.E.S. with	<ul> <li>In order to provide accessible child care to students with (a) child(ren), the Universi of Guelph offers bursaries to students who have demonstrated financial need. Apply Student Financial Services, with a completed Financial Need Assessment Form (N.A.F by October 7. Awarded in the Winter semester.</li> <li>Donor(s): University of Guelph Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financi 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 financia</li> </ul>
demonstrated financial need. Additionally, students must meet the	need.
government-mandated terms for receipt of an OTSS award (see General Statements on Awards).	Amount:         Several awards of up to \$2,000           University of Guelph International Bursary [I3048]
Amount: 1 award of \$1,500	The University of Guelph provides support to International undergraduate students th
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. Awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Scotiabank         Qualification(s):       Full-time students with demonstrated financial need. Additionally,	<ul> <li>are faced with unexpected, or unforeseen financial shortfalls while registered on campul Students should apply to Benny Quay, in the Centre of International Programs office to completing an International Student Financial Need Assessment Form (N.A.F.). They bursaries are awarded on an on-going basis.</li> <li>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.</li> <li>Amount: Several varies</li> </ul>
students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037
Amount: 2 awards of \$1,500 T.K. Warley Bursaries [I3510]	The University of Guelph offers in-course bursaries to students who have demonstrate financial need. Apply to Student Financial Services, with a completed Financial Nee
Established by O.A.C. Alumni Association, with the assistance of the Ontario	Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. <i>Donor(s):</i> University of Guelph
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.	Double(s):       Contention of the end of the en
Awarded in the Winter semester. ACCESS AWARD.	University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I304
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:       3 awards of \$500	<ul> <li>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. Awarded in the Winter semester.</li> <li>Donor(s): University of Guelph Qualification(s): Undergraduate students registered for full-time studies (as defined be OSAP) in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed.</li> <li>Amount: Several awards to a maximum of \$800</li> </ul>
University of Guelph Access Bursaries [I3522]	University Police Bursaries [I3019]
Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) diploma 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. Awarded in the Winter semester. ACCESS AWARD. Variable amounts from \$500 to \$2,000	The University Police have made available a number of bursaries. Apply to Studer Financial Services with a completed Financial Need Assessment Form (N.A.F.) b October 7. Students will be considered for this award automatically once a N.A.F ha been submitted by the deadline date. <i>Donor(s):</i> <b>The University Police</b> <i>Qualification(s):</i> Full-time undergraduate and graduate students who have financial need.
Donor(s): Alumni and Friend of the University of Guelph	Amount: Several of various amounts
<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an	University Student Assistance Program [I3057]
OSOTF award (see General Statements on Awards).           Amount:         Several awards of \$500, Several awards of \$2,000	These bursaries have been established and approved by the University of Guelph assist undergraduate and University of Guelph campus diploma students in financi need. Apply to Student Financial Services with a completed Financial Need Assessme
University of Guelph Alumni Association Access Bursaries [I3523] Established by the University of Guelph Alumni Association, with the assistance of the	Form (N.A.F.) by October 7. Typically, awarded in the Winter semester.
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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> University of Guelph Alumni Association	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 studen who are not eligible for provincial and/or federal assistance program 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
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	

## 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, a travel budget, and a completed Financial Need Assessment Form (N.A.F.) 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:

## Aeroplan International Travel Grant [T0604]

Several up to \$1000

Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year.

Donor(s):	Aeropla

Qualification(s):	Full-time students with a minimum cumulative average of 70%,
	completion of a minimum of 5.0 credits and confirmed participation
	in University of Guelph travel activities related to their academic
	program. Preference will be given to students participating in the
	semester abroad or academic exchanges.
Amount:	1 plane ticket per each semster

## 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 1 for Fall 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 in semester 3 and above. Students must have at least a 70% average and a primary area of interest 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 Bursary [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 by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1. ACCESS AWARD. Up to three awards totalling \$7500.

Donor(s):Canadian Friends of the Hebrew University in JerusalemQualification(s):Undergraduate degree students in either the second or third year of<br/>study, Masters students in the first year of study, and Doctoral students<br/>in the first three years of study are eligible to be considered. Applicants<br/>must provide documentation that they have approval from the Hebrew<br/>University of Jerusalem (i) to take courses and (ii) for the period of<br/>the visit. Students must also arrange appropriate University of Guelph<br/>approvals for a "Letter of Permission" prior to applying. Additionally,<br/>students must meet the government-mandated terms for receipt of an<br/>OSOTF award (see General Statements on Awards).Amount:3 Awards with varying amounts

## 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 April 1 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 \$1,000	
Geography Field Trip Travel Grant [T0584]		
In honour of th	In honour of the retirement of Dr. G.T. Bloomfield, former faculty member and Chair	

In honour of the retirement of Dr. G.T. Bloomfield, former faculty member and Chair of the department of Geography from 1977 to 1982. Upon registration for GEOG \*4690, students will submit to the chair of the department 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 the major honours program (B.A.H;
		B.Sc.(ESS); B.Sc.(Env)) in the Department of Geography who have
I		completed 12.5 course credits and have an overall average of at least
I		70% at the time of registration for GEOG *4690
l	Amount:	1 award of \$450

#### 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 April 1, 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

#### 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 Kinetics, Nutrition and Nutraceutical
	Sciences or Bio-medical Science majors of the B.Sc. program who
	have completed 15 credits and are traveling to one of: the University
	of Copenhagen, Denmark; University of Maastricht, Netherlands;
	Deakin University, Royal Melbourne Institute of Technology
	(R.M.I.T.), or the University of Melbourne, Melbourne Australia.
Amount:	up to awards of \$2,000

## J. Ross Cavers Study Abroad Scholarship [T0051]

O.A.C. '53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related and extracurricular activities to the O.A.C. Awards Office by April 1. 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:
 3 awards of \$1,800

J.D. Cunningham Travel Gran	t [T0605]	O.A.C. '47 Travel Bursaries [T3505]
Established on honour of the J. University of Guelph. Apply by A more than two pages outlining th learning opportunity. Include th anticipated benefits of participat part of the application package. must be willing to present a repor Protection Association. Donor(s): Ontario Food Pr Qualification(s): Students currer	D. Cunningham, a professor of microbiology at the April 1 to the O.A.C. Awards Office with a letter of n e intended study program, conference, or other type of e reason for choosing the program and describe the ion. Letters of recommendation will be considered a Upon return from the travel opportunity, the studer t to classmates and/or faculty and/or the Ontario Foo otection Association tly enrolled in any O.A.C. program with a minimum rage of 75%. Preference will be given to students in	<ul> <li>Provided by O.A.C.'47 on the occasion of its 50th anniversary and with the assists of the Ontario government's OSOTF program. Apply by letter with a completed Tr Award Application and a Financial Need Assessment Form (N.A.F.) for Travel aw to Student Financial Services by October 1, February 1 or June 1. ACCESS AWAI Donor(s): O.A.C. '47</li> <li>Qualification(s): O.A.C. undergraduate students who have demonstrated financial radius and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must mee government-mandated terms for receipt of an OSOTF award (see</li> </ul>
	pecializing in Microbiology.	O.A.C. '54 International Study Scholarship [T0586]
Amount: 1 award of \$2,0	00	Established in memory of Beth Duncan to support students participating in an excha
and Poultry Science for over 34 ye and Poultry Science by Februar contribution to the program in th <i>Donor(s):</i> Shirley Page <i>Qualification(s):</i> Students in Anii in animal produ- satisfactory aca	mory of her husband Lorne, a staff member in Anima ars. Apply by letter to the Chair, Department of Anima y 1, outlining the nature of the conference and you e department. One or two awards totalling \$1,000. mal Biology or in Agricultural Science with an interest action who have completed 12.50 credits with demic standing and who are planning to attend a studer ctivity related to animal production.	<ul> <li>al program and the anticipated benefits of participation. Letters should also include a l summary of extracurricular and student related activities. Letters of reference will considered. Apply to the O.A.C. Awards Office by April 1, no more than two semes prior to the commencement of the program.</li> <li><i>Donor(s):</i> Class of O.A.C. '54 <i>Qualification(s):</i> Currently registered students in O.A.C. who are Canadian citizen</li> </ul>
Mary Beverley-Burton Travel	Scholarships [T4512]	Amount: 2 awards of \$1,450
her all over the globe. This award by the Department. Apply by lett (N.A.F.) to Student Financial Ser Donor(s): Faculty, staff an Qualification(s): Students in the at least a 70% of need. Additional	968-95), whose research on monogenean worms too l is to assist students in attending field courses offere er with a completed Financial Need Assessment Forr vices by February 1. ACCESS AWARD d alumni of the Integrative Biology Department B.Sc. program who are in good academic standing wit umulative average and with demonstrated financial ally, students must meet the government-mandated t of an OSOTF award (see General Statements on	at a recognized university outside Canada. Depending on availability of funds, m than one recipient may be selected for this award. Applications must be accompa by a one-page description of the planned travel, including budget, to the Chair of Department of Physics at least two months prior to departure.
Amount: 3 awards of \$50	00	Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
Massey Fund Travel Scholarsh	ips [T0417]	
Travel scholarships available from support travel costs. Apply by le travel costs to the O.A.C. Dean's <i>Donor(s):</i> <b>O.A.C. Awards</b> <i>Qualification(s):</i> O.A.C. undergra study abroad or	n the Massey Fund. Not tenable with other awards that ther outlining the study abroad/exchange program an Office by April 15. Committee aduate students who are participating in an approved exchange program outside Canada. Academic standin ull-time semesters or equivalent will be used to	d scholarships to undergraduate students with demonstrated financial need who wis study in developing countries, or attend conferences on development. Apply to Stu Financial Services with a description of the intended travel, an estimate of the tr costs and a completed Financial Need Assessment Form (N.A.F.) at least one more provide the statement of the statem
Amount: 1 award of \$75		Qualification(s): Registered undergraduate students with demonstrated financial n
<b>O.A.C. '05 Excellence Travel G</b> In honour of the O.A.C. Class of Apply to the O.A.C. Awards Of longer than two pages outlining t learning opportunity, reasons for participation. A letter of recomm		<ul> <li>who have at least a 70% cumulative average in the last 2 semester full-time equivalent study are eligible. Additionally, students mu meet the government-mandated terms for receipt of an OSOTF av (see General Statements on Awards).</li> <li>Amount: Several awards of varying amounts to a maximum of \$1,000</li> </ul>
Donor(s):       Class of OAC 19         Qualification(s):       Student who are	05 and the Class of OAC 2005 currently registered in an Ontario Agricultural Colleg legree program and wish to travel to expand their	estate of Martha Robb, Paris, Ontario. Apply to the Dean, O.A.C. by April 15. Var

## 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 April 15, and include a description of the study abroad program. Travel grant (or grants) totalling \$1,500.

## 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 \$1,500

## 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 undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.

#### Donor(s): University of Guelph

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Qualification(s):	Registered undergraduate and graduate students that have completed
	5.0 credits with demonstrated financial need who have a minimum
	70% cumulative average in the last two semesters of full-time
	equivalent study are eligible to apply. The value of the award will
	depend on the assessed financial need. The scholarship can cover
	additional costs of travelling outside of Canada including: airfare,
	administrative costs, and differential costs of accommodation.
Amount:	Several 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**

## 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 not required. Two awards of \$1,250 paid in two installments of \$625.

Donor(s):	William B. Lowe and Amos Edgar Lowe
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 Qualification(s):
 Student entering any of the undergraduate degree programs of the Ontario Agricultural College.

 Amount:
 2 awards of \$1.250

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## Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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

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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:	4 awards of \$7,000

## 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

## Donor(s): Board of Governors

Qualification(s):Outstanding students entering semester 1Amount:25 awards of \$8,000

## 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

D. I. I. D. M	
	y Scholarship [E0034]
	emory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and forme
	in the former School of Food Agriculture and Resource Economics and
	ation to a graduate student from any of the O.A.C. Diploma programs
•	the University of Guelph campuses that enters a degree program at the
University of G	uelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the
main campus.	
Donor(s):	Friends and Associates
· · ·	: Graduate students from a University of Guelph Diploma program with
	high academic achievement and entering a degree program at the
	University of Guelph. Preference will be given to Graduates of the
	Diploma in Agriculture program.
Amount:	1 award of \$1,200
Elite Swine Ent	rance Scholarship [E0532]
	provided by Elite Swine Inc. to assist students entering an O.A.C
	rogram. High schools will forward nominations to the O.A.C. Award
Committee by S	• •
-	-
Donor(s):	Elite Swine Inc.
Qualification(s)	High school graduates who have applied to O.A.C. undergraduate
	programs, based on admission average, contributions to their schools
	and communities and on their potential to become leaders in society.
	Preference will be given to students with a strong interest in animal
<b>A</b> .	science, particularly swine production.
Amount:	5 awards of \$1,000
	es Scholarship [E0140]
Application not	required.
Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s)	Student from Oxford County with the highest admission average.
Amount:	1 award of \$1,400
Harold A. Kop	as Memorial Entrance Award [E0152]
_	
The award is res	tricted to students who have completed their secondary school education
The award is res within the Cour	tricted to students who have completed their secondary school education ty of Wellington or Waterloo Region. Students should complete th
The award is res within the Cour online Financial	tricted to students who have completed their secondary school educatio ity of Wellington or Waterloo Region. Students should complete th Need Assessment Form (N.A.F.) application as soon as they receiv
The award is res within the Cour online Financial their Acknowled	tricted to students who have completed their secondary school educatio ity of Wellington or Waterloo Region. Students should complete th Need Assessment Form (N.A.F.) application as soon as they receiv gement Package from Admission Services (this will come automaticall
The award is res within the Cour online Financial their Acknowled after an applicati	tricted to students who have completed their secondary school education try of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receiv gement Package from Admission Services (this will come automaticall on for admissions has been submitted by the student). Deadline to submit
The award is res within the Cour online Financial their Acknowled after an applicati the application i	tricted to students who have completed their secondary school education ty of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receive gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years).	tricted to students who have completed their secondary school education ty of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receive gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years). <i>Donor(s):</i>	tricted to students who have completed their secondary school education ty of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receive gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually <b>The Harold A. Kopas Charitable Foundation</b>
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years). <i>Donor(s):</i>	tricted to students who have completed their secondary school education ty of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receive gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually <b>The Harold A. Kopas Charitable Foundation</b> Student who has demonstrated financial need, together with a minimum
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years). <i>Donor(s):</i>	<ul> <li>tricted to students who have completed their secondary school education try of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receive gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually</li> <li>The Harold A. Kopas Charitable Foundation</li> <li>Student who has demonstrated financial need, together with a minimum average of 70% entering the B.Sc.(Agr.) program. Subsequent payment</li> </ul>
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years). <i>Donor(s):</i>	<ul> <li>tricted to students who have completed their secondary school education try of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receiving gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually The Harold A. Kopas Charitable Foundation</li> <li>Student who has demonstrated financial need, together with a minimum average of 70% entering the B.Sc.(Agr.) program. Subsequent payment are dependent on the student maintaining a 70% cumulative average</li> </ul>
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years). <i>Donor(s):</i>	tricted to students who have completed their secondary school education try of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receiv- gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually <b>The Harold A. Kopas Charitable Foundation</b> : Student who has demonstrated financial need, together with a minimum average of 70% entering the B.Sc.(Agr.) program. Subsequent payment are dependent on the student maintaining a 70% cumulative average demonstrating continuing financial need and continuing in the
The award is res within the Cour online Financial their Acknowled after an applicati the application i for 3 years). <i>Donor(s):</i> <i>Qualification(s)</i>	tricted to students who have completed their secondary school education try of Wellington or Waterloo Region. Students should complete the Need Assessment Form (N.A.F.) application as soon as they receive gement Package from Admission Services (this will come automatically on for admissions has been submitted by the student). Deadline to submit s May 1. One award of \$6,200 (\$2,000 in year 1 and \$1,400 annually <b>The Harold A. Kopas Charitable Foundation</b> : Student who has demonstrated financial need, together with a minimum average of 70% entering the B.Sc.(Agr.) program. Subsequent payment 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.
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Provided by the family of J.D. MacLachlan. Application not required.

( - ) -	The J.D. MacLachlan Trust
Qualification(s):	Student entering the University with the highest admission average.
Amount:	1 award of \$1,500

## 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.) to Student Financial Services by October 7.

## Donor(s): Austin Conway

Qualification(s):	Kemptville College graduate with high academic standing (a minimum	
	75% cumulative average) who registers in the O.A.C. degree program	
	in Agriculture or in Agriculture and Business. Financial need may also	
	be considered.	
Amount:	1 award of \$2,500	

## Lincoln Alexander Chancellor's Scholarship [E0493]

These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

## Donor(s): Many Donors Qualification(s): Entering students of academic distinction who are Aboriginal, persons with a disability or members of a racial minority, and who have made

	with a disability or members of a racial minority, and who have made
	significant contributions to their schools and communities and
	demonstrated the potential to become leaders in society. Financial need
	may be taken into consideration.
Amount:	2 awards of \$26,000

## McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.

Donor(s): Wilhelmina McArthur-Humphries Trust Fund

 Qualification(s):
 Students entering semester 1 with a minimum 75% admission average.

 Preference will be given to those students from Lanark and Wellington
 Counties. 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.

 Amount:
 12 awards 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

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        Donor(s):
        Paul and Aileen Clarke

        Qualification(s):
        Students with a minimum 80% average with a record of leadership and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

        Amount:
        1 award of $12,000
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## President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

# Donor(s): A number of President's Scholarships have been named in honour of the following people and/or donors: Dick Brown Dick Brown

Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1968 to 1988.

#### 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): Entering students of academic distinction who have made significant contributions to their schools and communities and demonstrate the potential to become leaders in society.

 Amount:
 12 awards of \$26,000

## 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 undergraduate or graduate student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application not required.
 Donor(s): Mrs. Helen Quinn (O.A.C. '35)
 Qualification(s): Entering semester one of an O.A.C. program to an undergraduate or graduate 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. Application not required.
 Donor(s): The estate of Mrs. Sarah Jane Fiske

180 I.X. Scholarships and Other Awards, Bachelor of Science in Agriculture		
The Jack and Lillian MacDonald Scholarship [E0379]	Devine Family Scholarship [E4542]	
<ul> <li>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. Apply by letter to Student Financial Services by April 1.</li> <li>Donor(s): Jack and Lillian MacDonald Qualification(s): In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University.</li> </ul>	On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. Scholarship offers will be made in May. This award is not	
University of Guelph Entrance Scholarships [E0291]	tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.	
This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required.	Donor(s):       Mr. Peter J. Devine         Qualification(s):       Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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).	
Donor(s): University of Guelph	Amount: 1 award of \$25,000 (payable over 4 years of study)	
<i>Qualification(s):</i> Students entering their first year of post-secondary studies for the first time and have a minimum 85% admission average.	Kenneth O. Hammill-Blount Canada Scholarship [E4356]	
Amount: Several awards ranging in value from \$2,000 to \$3,000	Established in honour of Kenneth Osborne Hammill, a long time friend of the University	
<ul> <li>University of Guelph Faculty Association Scholarship [E0292]</li> <li>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. Application not required.</li> <li>Donor(s): University of Guelph Faculty Association</li> <li>Qualification(s): Student entering an undergraduate degree program at the University of Guelph with the highest admission average who has been a resident in the County of Wellington during the previous twelve months.</li> <li>Amount: 1 award of \$2,250</li> <li>W. Penri Morris Memorial Scholarship [E0430]</li> <li>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 not required.</li> <li>Donor(s): Prof. Rosalina Morris</li> <li>Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario.</li> <li>Amount: 1 award of \$1,000</li> </ul>	and retired plant manager of Blount Canada, with the assistance of the Ontaric 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 (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 May 1. ACCESS AWARD. <i>Donor(s):</i> <b>The Blount Foundation, Inc.</b> <i>Qualification(s):</i> Students from the Province of Ontario, with demonstrated financial need, 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. 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). <i>Amount:</i> 1 award of \$9,600, payable in 8 payments of \$1,200	
Entrance Scholarships with Financial Need	Established by the University of Guelph to support entering undergraduate students with	
Bill Klopp Memorial Award [E0150]	identified financial need. Students should complete the online Financial Need Assessment	
<ul> <li>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 May 1. 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).</li> <li>Donor(s): Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who</li> </ul>	<ul> <li>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 May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards. Donor(s): University of Guelph Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit. Amount: 500 awards of \$2,000</li> </ul>	

1 award of \$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 (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 May 1. ACCESS AWARD

## Donor(s): Rol-Land Farms

Qualification(s):	· Outstanding entering undergraduate degree students 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

## University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

## Donor(s): University of Guelph

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Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

## **Entrance Awards with Financial Need**

## 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

## Donor(s): W. Roy Hindle and family

 Qualification(s): An entering O.A.C. degree student who has 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

## 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 letter to Student Financial Services and by completing the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the online application and letter is May 1.ACCESS AWARD

Donor(s):	The family and friends of R. Gordon Bennett, O.A.C. '43
Qualification(s): O.A.C. student with demonstrated financial need entering	
-	Diploma, B.Sc.Agr.), or B.Comm., Agricultural Business major,
	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 (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 May 1.

## 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. Students who have applied to the University of Guelph will receive an application form.

## Donor(s): University of Guelph

лтоит.	Several awards of \$1,000, Several awards of \$5,000
Amount:	Several awards of \$1,000. Several awards of \$3,000
	at the University of Guelph with demonstrated financial need.
Qualification(s):	Students on a student visa entering an undergraduate degree program
()	

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

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

#### **In-course Scholarships**

Amber (Gibbon	s) Underwood Communications Award [I0207]	
	ory of Amber (Gibbons) Underwood (O.A.C.'79, M.SC.'87) by the derwood families and the class of O.A.C.'79. Application not required.	
Donor(s):	The Gibbons and Underwood families and the Class of O.A.C. 77 Students enrolled in the B.Sc.(Agr.) program of the Ontario Agricultural College. 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, EDRD*3060 International Communication and EDRD*4060	
	Agricultural Communication.	
Amount:	1 award of \$400	
Beth Duncan G	old Medalist [C0205]	
Offered by the Offere	D.A.C. Alumni Foundation to a student in the B.Sc.(Agr.) program. required.	
Donor(s): Qualification(s): Amount:	<b>O.A.C. Alumni Foundation</b> 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. 1 Medal	
Better Beef Sch	olarship [I0588]	
Project in Agricu research topic pr	ps are provided to two students that have selected AGR*4450 Research lture I for their next semester of study. Selection is based on the student's oposal related to meat quality and quality control. Apply by April 1 ot more than two pages, outlining proposed research topic to the Chair, try Science.	
Donor(s):	Better Beef Ltd.	
Qualification(s):	BSc.(Agr), BSc.(Food Science), or BSc.(Animal Biology) students that have selected AGR*4450 for their next semester of study. 2 awards of \$2,500	

Bill Taylor Mem	orial Scholarship [I0280]	Canadian Association of Agri-Retailers Scholarship [I0444]
	clude a supporting letter from a coach or intramural supervisor. Apply ial Services by April 1.	Provided by the Canadian Association of Agri-Retailers. Apply to Student Financia Services by April 1.
Donor(s):	AMF Canada Ltd. 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.	Donor(s):       Canadian Association of Agri-Retailers         Qualification(s):       Student who has competed semesters 4, 5, or 6 in B.Sc.(Agr.) or         B.Comm., Agricultural Business major, with a minimum 70% average in the previous 2 semesters of full-time equivalent study, participate in extracurricular activities, and has an interest in the input supply industry in agriculture.
Amount:	1 award of \$900	Amount: 1 award of \$1,000
Blackburn Scho		CFRU Volunteer Award [I0215]
	on of the 125th Anniversary of the Ontario Agricultural College, Dr.	Apply to the CFRU Board of Governors by April 30.
D.J. Blackburn, a and former Direc Apply by letter, c 1. <i>Donor(s):</i>	<ul> <li>and the first functional of the former Rural Extension Studies program tor of the Associate Diploma Program has established this scholarship.</li> <li>iting athletic contributions, to the O.A.C. Awards Committee by April</li> <li>D.J. Blackburn</li> <li>O.A.C. degree or diploma student who has participated in intercollegiate athletics and maintained a minimum cumulative average</li> </ul>	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
	of 70% while registered at Guelph. Athletic excellence and leadership	Charles McGowan Memorial Prize [C0187]
	will be used to determine the recipient.	Established in memory of the late Lieutenant Charles McGowan. Application not required
Amount:	1 award of \$500	Donor(s): Charles McGowan Memorial Fund
Bruce County G	raduation Prize [C0037]	<i>Qualification(s):</i> Outstanding graduating student in an O.A.C. degree program.
Offered by the Co	orporation of the County of Bruce. Application not required	Amount: 1 award of \$300
Donor(s):	The Corporation of the County of Bruce	Class of '51 O.A.C. Leadership Awards [C0063]
	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	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 not required.
Amount:	1 award of \$800	<i>Donor(s):</i> Year '51 O.A.C. <i>Qualification(s):</i> Students graduating from the degree program in a major in an O.A.C
Bruce M. Cohoe	Prize [C0069]	department who have a 70% standing in the final year of study and
Application not r	equired.	who have demonstrated leadership in the College or University
().	Mr. Bruce M. Cohoe	extracurricular activities.
Qualification(s):	Student in the final semester level with an interest in agronomy with outstanding academic achievement and participation in extracurricular	Amount: 5 awards of \$2,000
	activities at the departmental, College and University levels.	Class of '67 O.A.C. Centennial Scholarship [I0067]
	1 award of \$1,200	Apply to Student Financial Services by April 1.
Bruce W. Minsh	all Memorial Scholarship [I0450]	Donor(s): Class of O.A.C. '67 $O_{A} = O_{A} = O_{A}$
•	W.H. Minshall (O.A.C.'33) in memory of his son Bruce, a graduate of Apply to Student Financial Services by April 1.	<i>Qualification(s):</i> Student majoring in an O.A.C. department who through activity in a branches of college life as well as scholastic achievement has made
		an outstanding contribution to the University.
Donor(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall	Amount: 1 award of \$1,000
Donor(s): Qualification(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall O.A.C. students in the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree	Amount:         1 award of \$1,000           Class of 1933 Scholarship [C0062]
Donor(s): Qualification(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrent
Donor(s): Qualification(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.
Donor(s): Qualification(s):	<b>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</b> 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	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933
Donor(s): Qualification(s):	<b>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</b> 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	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertake
Donor(s): Qualification(s):	<b>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</b> 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	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933 (Descent Professor W.J. Squirrel Apply in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing and involvement in extracurricular activities will be used to the standing activities will be used tot the standing activities will be used tot the s
Donor(s): Qualification(s):	<b>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</b> 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. 1 award of \$1,000	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirred Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertak graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used t determine the recipients.
Donor(s): Qualification(s): Amount: C.W. Riley Prize The C.W. Riley	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 E[C0246] Prize was established by a number of his friends and associates.	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirred Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertal graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used t determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500
Donor(s): Qualification(s): Amount: C.W. Riley Prize	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 E[C0246] Prize was established by a number of his friends and associates. equired.	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertak graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used t determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         Class of 1970 Scholarship [I0424]
Donor(s): Qualification(s): Amount: C.W. Riley Prize The C.W. Riley Application not r Donor(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 E[C0246] Prize was established by a number of his friends and associates. equired. Friends and associates of C.W. Riley	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertak graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used t determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         Class of 1970 Scholarship [I0424]       Established by the Silver Anniversary celebrants to commemorate the 25th anniversary
Donor(s): Qualification(s): Amount: C.W. Riley Prize The C.W. Riley Application not r Donor(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 EIC0246] Prize was established by a number of his friends and associates. equired. Friends and associates of C.W. Riley Student who, on graduation from Food Agriculture and Resource	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertal graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used t determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         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
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Donor(s): Qualification(s): Amount: C.W. Riley Prize The C.W. Riley Application not r Donor(s): Qualification(s): Amount: Canadian Agri-I Provided by the C to the O.A.C. aw	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 E[C0246] Prize was established by a number of his friends and associates. equired. Friends and associates of C.W. Riley 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. 1 award of \$375 Marketing Association (Ontario) Scholarship [I0541] Canadian Association of Agri-Marketing Association (Ontario). Apply ards Committee by April 1 with a summary of participation in the Ag	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertak graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used to determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         Class of 1970 Scholarship [10424]       Established by the Silver Anniversary celebrants to commemorate the 25th anniversar of the University Class of 1970. This award rotates among all six colleges on the mai campus. The appropriate College Award Committee selects the candidate each Fa semester and the candidate is announced each October. Application not required.
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Donor(s): Qualification(s): Qualification(s): C.W. Riley Prize The C.W. Riley Application not r Donor(s): Qualification(s): Amount: Canadian Agri-I Provided by the C to the O.A.C. aw Ec & Biz Society from a faculty me	<ul> <li>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</li> <li>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</li> <li>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.</li> <li>1 award of \$1,000</li> <li>EC0246</li> <li>Prize was established by a number of his friends and associates. equired.</li> <li>Friends and associates of C.W. Riley</li> <li>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. 1 award of \$375</li> <li>Marketing Association (Ontario) Scholarship [I0541]</li> <li>Canadian Association of Agri-Marketing Association (Ontario). Apply ards Committee by April 1 with a summary of participation in the Ag and in agri-marketing initiatives as well as a letter of recommendation ember.</li> </ul>	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertak graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used to determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         Class of 1970 Scholarship [10424]         Established by the Silver Anniversary celebrants to commemorate the 25th anniversar of the University Class of 1970. This award rotates among all six colleges on the mai campus. The appropriate College Award Committee selects the candidate each Fa semester and the candidate is announced each October. Application not required.         Donor(s):       Class 1970: 25th Reunion Gift         Qualification(s):       Outstanding student in any degree program who has attained at leas an 80% average in two consecutive semesters resulting in placemen on the Deans' Honours List.         Amount:       1 award of \$1,400         Clayton and Dorothy Switzer Scholarships [10276]
Donor(s): Qualification(s): Qualification(s): C.W. Riley Prize The C.W. Riley Application not r Donor(s): Qualification(s): Amount: Canadian Agri-I Provided by the C to the O.A.C. aw Ec & Biz Society from a faculty me Donor(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 (C0246) Prize was established by a number of his friends and associates. equired. Friends and associates of C.W. Riley 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. 1 award of \$375 Marketing Association of Agri-Marketing Association (Ontario). Apply ards Committee by April 1 with a summary of participation in the Ag and in agri-marketing initiatives as well as a letter of recommendation ember. Canadian Agri-Marketing Association (Ontario)	Amount:       1 award of \$1,000         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrel Apply to Student Financial Services, by April 1.         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. Academic standing and involvement in extracurricular activities will be used t determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         Class of 1970 Scholarship [10424]       Established by the Silver Anniversary celebrants to commemorate the 25th anniversari of the University Class of 1970. This award rotates among all six colleges on the mai campus. The appropriate College Award Committee selects the candidate each Fa semester and the candidate is announced each October. Application not required.         Donor(s):       Class 1970: 25th Reunion Gift         Qualification(s):       Outstanding student in any degree program who has attained at leas an 80% average in two consecutive semesters resulting in placemen on the Deans' Honours List.         Amount:       1 award of \$1,400         Clayton and Dorothy Switzer Scholarships [10276]         Apply by April 1 to Student Financial Services.
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Donor(s): Qualification(s): Qualification(s): C.W. Riley Prize The C.W. Riley Application not r Donor(s): Qualification(s): Amount: Canadian Agri-1 Provided by the C to the O.A.C. aw Ec & Biz Society from a faculty me Donor(s): Qualification(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000 <b>E[C0246]</b> Prize was established by a number of his friends and associates. equired. Friends and associates of C.W. Riley 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. 1 award of \$375 Marketing Association of Agri-Marketing Association (Ontario). Apply ards Committee by April 1 with a summary of participation in the Ag and in agri-marketing initiatives as well as a letter of recommendation ember. Canadian Agri-Marketing Association (Ontario) 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         Class of 1933 Scholarship [C0062]         Established by the graduating class of 1933 in honour of the late Professor W.J. Squirre         Apply to Student Financial Services, by April 1.         Donor(s):       Graduating Class of 1933         Qualification(s):       Graduating students of the BSc(Agr.) program who plan to undertal graduate study in agriculture at a recognized university. Academic standing and involvement in extracurricular activities will be used t determine the recipients.         Amount:       1 5000 or 2 awards of \$2,500         Class of 1970 Scholarship [10424]         Established by the Silver Anniversary celebrants to commemorate the 25th anniversar of the University Class of 1970. This award rotates among all six colleges on the ma campus. The appropriate College Award Committee selects the candidate each Fa semester and the candidate is announced each October. Application not required.         Donor(s):       Class 1970: 25th Reunion Gift         Qualification(s):       Outstanding student in any degree program who has attained at leas an 80% average in two consecutive semesters resulting in placemer on the Deans' Honours List.         Amount:       1 award of \$1,400         Clayton and Dorothy Switzer Scholarships [10276]         Apply by April 1 to Student Financial Services.         Donor(s):       Clayton and Dorothy Switzer         Qualification(s):       One to a student who has completed semester 2 of the Diploma in Agriculture program and one to
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Offered by Collins Barrow, a national firm of Chartered Accountants. Awarded in the

Collins Barrow Award [I0040]

-	. Application not required.	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
Donor(s):	Collins Barrow Chartered Accountants	to Student Financial Services by April 1.
	Student with the highest grade in course BUS*3330, Intermediate	Donor(s): Foodland Hydro Committee
Qualification(5)	Accounting, in the Fall semester. In the event of a tie, the scholarship	<i>Qualification(s):</i> Student who has completed semester 6 in the B.Sc.(Agr.) program and
	will be given to the student with the highest cumulative average in	who has an interest in agricultural environmental issues as they are
A	their program.	affected by the public interest process.
Amount:	1 award of \$500	Amount: 1 award of \$800
-	lorticultural Society Scholarship [I0467]	Frank and Gertraude Hurnik Scholarship [10455]
	1 to the O.A.C. Dean's Office with a letter of no more than two pages	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
	based on this participation with a preference given to students who are	animal welfare at Guelph, developed the first course in Animal Welfare, and was
residents of Miss	1 1 1 0	co-founder and editor of the Journal of Agricultural and Environmental Ethics. Apply
Donor(s):	Credit Valley Horticultural Society	by letter to the Chair, Animal and Poultry Science, by February 1 outlining details of
	O.A.C. student studying in horticulture who has completed 5.0 credits	the project or meeting. The award will be given to the student who has the best
	with a minimum 70% average.	presentation, paper or project. Preference is given to Graduate students.
Amount:	1 award of \$350	<i>Donor(s):</i> <b>Dr. Frank Hurnik</b> <i>Qualification(s):</i> O.A.C. undergraduate or graduate students who are associated with
-	Apiculture Scholarship [I0031]	the department of Animal & Poultry Science and who undertake a
	emory of David Boyes a technician in the Apiculture Field Laboratory.	project or attend a conference/scientific meeting or publish a paper in
Application not	-	animal welfare or agricultural ethics may apply. A minimum of an "A"
Donor(s):	The Apiculture Club	standing for in the last two semesters is required.
Qualification(s):	Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture (ENVB*2210) in the previous	Amount: 1 award of \$1,000
	year, demonstrates an interest in apiculture and who has participated	Gary Putnam Memorial Scholarship [C0241]
	in extracurricular activities.	Provided in memory of their son Gary by Mr. and Mrs. Ross Putnam. Apply to the Associate Period Structure Student Einancial Services by April 1
Amount:	1 award of \$150	Associate Registrar, Student Financial Services by April 1.
Dawn Morris M	Iemorial Award [C0361]	<i>Donor(s):</i> <b>Mr. and Mrs. Ross G. Putnam</b> <i>Qualification(s):</i> Graduating B.Sc.(Agr.) student with high standing in at least 3 courses
	bry of Dawn Morris, who spent 35 years in farm show business and was	in pesticides or alternative methods of insect, disease and weed control.
	r of the Canadian International Farm Equipment Show in Toronto.	Amount: 1 award of \$750
Financial Service	ouraged to submit information on extracurricular activities to Student	Glen (Andy) W. Anderson Scholarship [I0380]
Donor(s):	The Family of Dawn Morris	Family and friends of Glenn (Andy) Anderson (O.A.C.'54 Crop Science) have created
	Student who is graduating from the Agricultural Business major of the	a scholarship to honour him at the time of his retirement after 41 years as a Professor in
~ , , , ,	B.Comm. degree or the Food Agriculture and Resource Economics	O.A.C. He had an interest in weed science throughout his career. Students are to apply,
	major in the B.Sc.(Agr.) degree with a minimum 'B+' average. Selection	including a letter of reference from a Crop Science faculty member, to Student Financial Services, by April 1.
	will be on the basis of relevant course work in agricultural marketing,	Donor(s): Anderson Family
Amount:	extracurricular participation and employment activities. 1 award of \$1,500	<i>Qualification(s):</i> Offered to O.A.C. diploma students with an interest in agronomy or
Deans' Scholars		crop science who enter the B.Sc.(Agr.) Degree program and who
	Board of Governors. Recipients will be selected by each of the College	demonstrate a commitment to and an interest in weed science. Selection
	ttees. Winners will be notified in the Fall semester. Application not	will be based on performance in courses in weed science, summer employment and/or work activity in the agricultural chemical industry
required.		and/or leadership activities in weed science and related areas.
Donor(s):	Board of Governors	Preference will be given to a student who has resided in Ontario for at
Qualification(s):	Students registered in any degree program. The primary academic	least 12 months prior to admission to the University of Guelph.
	criteria is placement on the Deans' Honours List for two consecutive semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.	Amount: 1 award of \$1,000
	program, in the previous Fall/Winter/Summer sequence.	Governor General's Medal [C0044]
Amount:	150 awards of \$1,000	Established by the Office of the Governor General of Canada. Application not required.
Doug Wakely M	Iemorial Scholarship [10334]	Donor(s): The Chancellery
	friends and business associates of the late Doug Wakely. Preference	Qualification(s): Restricted to those undergraduate students in any degree program who
<i>.</i>	students from the counties/regions of Wellington, Huron, Bruce, Perth	are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.
or Waterloo. Ap	ply to Student Financial Services, by April 1.	Amount: 1 Silver medal
	pry to Student i malicial Services, by April 1.	
Donor(s):	The Harriston Group of the Ontario Grain and Feed Dealers	
	<b>The Harriston Group of the Ontario Grain and Feed Dealers</b> Student in the B.Sc.(Agr.) program who has completed course(s) in	Guelph & Wellington County Master Gardeners Scholarship [I0572]
	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has	
	<b>The Harriston Group of the Ontario Grain and Feed Dealers</b> Student in the B.Sc.(Agr.) program who has completed course(s) in	Guelph & Wellington County Master Gardeners Scholarship [I0572]           Selection will be based on the student with the highest cumulative average. Application
	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community	Guelph & Wellington County Master Gardeners Scholarship [I0572]         Selection will be based on the student with the highest cumulative average. Application not required.         Donor(s):       Guelph & Wellington County Master Gardeners         Qualification(s):       Student that has completed a minimum of 10.0 course credits, enrolled
Qualification(s): Amount:	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity.	Guelph & Wellington County Master Gardeners Scholarship [I0572]         Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rob In memory of Do	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] puglas Robinson (O.A.C.'53), and in conjunction with the establishment	Guelph & Wellington County Master Gardeners Scholarship [I0572]         Selection will be based on the student with the highest cumulative average. Application not required.         Donor(s):       Guelph & Wellington County Master Gardeners         Qualification(s):       Student that has completed a minimum of 10.0 course credits, enrolled
Qualification(s): Amount: Douglas M. Rot In memory of Do of an innovative	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] puglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995,	Guelph & Wellington County Master Gardeners Scholarship [I0572]         Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rot In memory of Do of an innovative the Innovative F	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] puglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this	Guelph & Wellington County Master Gardeners Scholarship [I0572]       Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rot In memory of Do of an innovative the Innovative F annual prize. Ap	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] puglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this pugly by letter to the Dean's Office, O.A.C. by April 1 outlining how	Guelph & Wellington County Master Gardeners Scholarship [I0572]       Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rot In memory of Do of an innovative the Innovative F annual prize. Ap	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] Duglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this poly by letter to the Dean's Office, O.A.C. by April 1 outlining how has been used creatively and effectively. One annual award of \$1,000	Guelph & Wellington County Master Gardeners Scholarship [I0572]       Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rot In memory of Do of an innovative the Innovative F annual prize. Ap communication	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] Duglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this poly by letter to the Dean's Office, O.A.C. by April 1 outlining how has been used creatively and effectively. One annual award of \$1,000	Guelph & Wellington County Master Gardeners Scholarship [I0572]       Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rol In memory of Do of an innovative the Innovative F annual prize. Ap communication I or two annual aw Donor(s):	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] Duglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this poly by letter to the Dean's Office, O.A.C. by April 1 outlining how has been used creatively and effectively. One annual award of \$1,000 vards of \$500. The Innovative Farmers Association of Ontario Students in the B.Sc.(Agr.) program who demonstrate creativity and	Guelph & Wellington County Master Gardeners Scholarship [I0572]       Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rot In memory of Dc of an innovative the Innovative F annual prize. Ap communication I or two annual aw Donor(s): Qualification(s):	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. I award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] Duglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this poly by letter to the Dean's Office, O.A.C. by April 1 outlining how has been used creatively and effectively. One annual award of \$1,000 wards of \$500. The Innovative Farmers Association of Ontario Students in the B.Sc.(Agr.) program who demonstrate creativity and excellence in communication.	Guelph & Wellington County Master Gardeners Scholarship [10572]         Selection will be based on the student with the highest cumulative average. Application 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.
Qualification(s): Amount: Douglas M. Rol In memory of Do of an innovative the Innovative F annual prize. Ap communication I or two annual aw Donor(s):	The Harriston Group of the Ontario Grain and Feed Dealers Student in the B.Sc.(Agr.) program who has completed course(s) in livestock production or in grain crop production and who has participated in athletics at the University, intramural or community level as a player or in an organizing capacity. 1 award of \$800 Dinson Memorial Prize for Excellence in Communications [I0409] Duglas Robinson (O.A.C.'53), and in conjunction with the establishment curriculum in agricultural science at the University of Guelph in 1995, Farmers' Association of Ontario and the Robinson family provide this poly by letter to the Dean's Office, O.A.C. by April 1 outlining how has been used creatively and effectively. One annual award of \$1,000 vards of \$500. The Innovative Farmers Association of Ontario Students in the B.Sc.(Agr.) program who demonstrate creativity and	Guelph & Wellington County Master Gardeners Scholarship [10572]         Selection will be based on the student with the highest cumulative average. Application 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.

Foodland Hydro Scholarship [10290]

The Foodland Hydro Scholarship was established by the Foodland Hydro Committee.

84	IX. Scholarships and Other Awards, Bachelor of Science in Agricultu
Heimbecker Award in Entrepreneurship [I0388]	Joerg and Franzis Leiss Horticultural Scholarship [10565]
The Heimbecker Award in Entrepreneurship has been established by the friends an associates of Herb Heimbecker, on his retirement as a Director of Goderich Elevator to honour his contributions to the agri-food industry in Canada. Students should appl to Student Financial Services by April 1, including a resume and a letter highlightin their entrepreneurial skills and their aptitude and interest in business. <i>Donor(s):</i> The friends of Herb Heimbecker at Goderich Elevators <i>Qualification(s):</i> O.A.C. student in B.Sc.(Agr.) or B.Comm., Agribusiness major, wh have completed semester 6 are eligible. Students must have a minimum of a B standing (73%-76%) in their previous full-time year or equivalent [5.00] credits, have demonstrated entrepreneurial skills and display a aptitude and an interest in business.	<ul> <li>courses normally taken in years 1 and 2. In the event of a tie, financial need may considered. Application not required.</li> <li><i>Donor(s):</i> Mr. Joerg Leiss, O.A.C. '63 <i>Qualification(s):</i> Students with a minimum cumulative averge 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.</li> <li><i>Amount:</i> 1 award of \$2,000</li> </ul>
Amount: 1 award of \$1,300	Institute of Ontario. Apply to Student Financial Services by April 1.
International Undergraduate Scholarship [I0577] Established through a student referendum approved by the undergraduate student body to recognize international students' academic merit along with involvement/leadershi activities during their enrollment at the University of Guelph. Financial need will b considered only in the event of a tie. Apply to Student Financial Services, by April with a letter indicating involvement/extracurricular activity since entry to the University	<ul> <li>p</li> <li>p</li> <li>p</li> <li>c) Constrained statement of the participation of the participation of the participation of the participation in extracurricular activities.</li> <li>c) Amount: 1 award of \$1,200</li> </ul>
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	
<ul> <li>student.</li> <li>Donor(s): International Student Organization (ISO)</li> <li>Qualification(s): Full-time International students (defined as those paying full international student tuition without exemption), who have complete 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.</li> </ul>	<ul> <li>Established through the generosity of The John Deere Foundation of Canada to recognize academic excellence. Application not required.</li> <li><i>Donor(s):</i> The John Deere Foundation of Canada</li> <li><i>Qualification(s):</i> 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</li> </ul>
Amount:         1 award of \$1,000	on the student with the highest cumulative average. A student may be receive this award once only.
Intervet Canada Poultry Health Prize [C0327] Awarded at graduation. Evaluated by the faculty in the Department of Animal and Poultr	Amount: 1 award of \$2,000
Science. Application not required.	John Eccles Scholarship [10093]
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	<ul> <li>Nominations, accompanied by appropriate resumes, are to be submitted to Studen Financial Services by April 1.</li> <li>Donor(s): Student Housing Services</li> <li>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</li> </ul>
J. Ross Cavers Memorial Scholarship [I0349] The members of O.A.C.'53 have established, in honour of their highly respected Honorar President and now Honorary Year member, Professor Emeritus Cavers, a scholarshi to assist Canadian students to become more aware of international agriculture and hence to contribute to solutions of world food problems. Apply to Student Financial Service	paid members of Interhall Council and Hall Councils are not eligible <i>Amount:</i> 1 award of \$600
by April 1.	Joseph Arlen Memorial Award in Horticulture [C0330]
Donor(s):       O.A.C. '54         Qualification(s):       Canadian citizen with high academic standing over the first two semesters of the B.Sc.(Agr.) program who enrolls in the minor in International Agriculture. Participation in extracurricular activities wi also be taken into account. Students must register for the Internationaries Field Study course (AGR*2500) in the year the award is received.         Amount:       2 awards of \$1,000	Al semesters Amount: 1 award of \$500
Jim Stokman Memorial Scholarship [10386]	Kae and Gordon Skinner Memorial Scholarship [C0258]
<ul> <li>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 h lifetime contribution to the family farm. Apply to Student Financial Services by Apr 1.</li> <li>Donor(s): Mrs. Jim Stokman Qualification(s): Available to O.A.C. students who have completed 5.0 credits with a 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 statement.</li> </ul>	<ul> <li>participation in the Student Branch of the Ontario Institute of Agrologists. Apply Student Financial Services by April 1.</li> <li>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 ar understanding of the profession of agrology among fellow students 1 award of \$750</li> </ul>
background and have demonstrated community/student involvemen both during high school and the first two semesters of University.	t Kenneth W. Hammond Award [10045]
Amount: 1 award of \$600	The evaluation of the student will be based on the final essay in the "Environment Perspectives and Human Choice: 5000 Days" course. The selection committee will comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physic and Engineering Science and the Dean of Biological Science. Application not require <i>Donor(s):</i> <b>Kenneth W. Hammond</b> <i>Qualification(s):</i> Student who has best demonstrated an understanding of the world's

resource situation and its proper use by humankind.

1 award of \$1,000

Kevin Lang M	Iemorial Scholarship [I0328]	Maple Leaf Fo
In memory of	Kevin Lang, '79 O.A.C. Apply to Student Financial Services, by April 1.	Provided by Sh
Donor(s):	In memory of Kevin Lang, O.A.C. '79	Services by Ap
	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.	Donor(s): Qualification(s
Amount:	1 award of \$500	
Kip Hunter P		Amount:
	say, written by an undergraduate in a philosophy course. The essay may uired assignment for a course (in which case either the student or the	Marion McKe
	submit it) or it may be specially prepared for the competition. Submission	These prizes h
	the Chair, Department of Philosophy, by the end of the 12th week of the	teacher who ha
Winter semeste		and present. The in the History p
Donor(s):	Faculty, students and staff of the Philosophy Department s): Any undergraduate who has registered for a philosophy course during	Donor(s):
Qualification(s	the academic year in which the prize is awarded.	Qualification(s):
Amount:	1 Book prize	2
Lambda Foun	dation Scholarship in LBGT Studies [10591]	
This award is	provided to encourage research on the subject of lesbian, bisexual, gay	Amount:
and transgende	ered (LBGT) peoples. The scholarship is based upon areas of research	O.A.C. '45 Pu
	e history, contributions, and issues by or about LBGT peoples. Preference o an applicant who is involved in the LBGT community as demonstrated	Offered by the
	volunteer activities, active civil society memberships, or as attested by a	not required.
letter of recom	mendation from a community group, or evidenced by related previous	Donor(s):
	its. This scholarship may be awarded to a given student only once. Projects a completed or research proposals accepted within the past calendar year.	Qualification(
	ean of Arts by December 15th including the research proposal or completed	
project, curric	ulum vitae, and any supporting letters referencing involvement in the	Amount:
LBGT commu	nity and/or faculty support.	O.A.C. '55 Sci
Donor(s):	Lambda Foundation and other donors	Provided by th
Qualification(s	<ul> <li>s): Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to</li> </ul>	Donor(s):
	lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly	Qualification(s).
	defined by the applicant.	- •
Amount:	1 award of \$1,000	
	e Science Academic Scholarship [C0425]	
-	e Land Resource Science Endowment fund. Application not required.	
Donor(s):	Provided by the Land Resource Science Endowment Fund s): Student graduating from any major in the department with the highest	Amount:
Qualification(s	cumulative average.	
Amount:	1 award of \$1,000	O.A.C. Center
Land Resourc	e Science Achievement Scholarship [C0426]	The Ontario A organizations a
	e Land Resource Science Endowment fund. Apply to Student Financial	in conjunction
Services by Ap	pril 1.	as a permaner
Donor(s):	Provided by the Land Resource Science Endowment Fund	Financial Serv
Qualification(s	s): Student graduating from any major in the department with a minimum cumulative average of 70%. Preference will be given to students	Donor(s):
	contributing to student life on campus and/or community activities.	Qualification(
Amount:	1 award of \$1,000	
Leonard Cond	olly Exchange Student Scholarship [I0446]	
Established by	students, faculty, staff and friends to honour Prof. Leonard Conolly,	
professor of c	Irama, Chair of the Department of Drama, 1981-88, and Associate	
	Academic, 1988-1992. Apply to the Centre for International Programs	Amount:
	visiting during the subsequent Fall or Winter semesters. Selection, by the ernational Programs, will be based on assessment of (a) a one-page	O.A.C. Studer
submission des	scribing the significance of the student visiting Guelph to the program of	Application no
	rtner exchange university (b) two faculty references of one-page each,	Donor(s):
	ent high performance in the course work completed, as documented by a ogram grades to date, submitted by the home university.	Qualification(
Donor(s):	Students, staff, faculty and friends of Dr. Leonard Connolly	
	s): Full-time visiting exchange undergraduate or graduate student,	Amount:
~	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)	

available in the Centre for International Programs). 1 award of \$1,000 Amount:

Maple Leaf Foo	ds Inc. Shur-Gain Scholarship [I0307]
•	r-Gain, a member of Maple Leaf Foods Inc. Apply to Student Financia
Services by Apri	11.
Donor(s):	Shur-Gain
Qualification(s):	Undergraduate in Animal Science or Animal Biology who has high
	academic standing during the first 4 semesters and is continuing in
	that program. Positive evidence of leadership and contribution to
Amount:	university and/or community life are also given strong consideration 1 award of \$750
	zie Prizes for Outstanding Achievement in History [10470]
	ye been established in memory of Marion McKenzie (1905-1994), a love of learning and a continuing curiosity about the world both pase
	se are awarded to the top student in each of the required core course
	gram (HIST*1010, HIST*2450, HIST*2602). Application not required
Donor(s):	ТВА
	The recipient for HIST*1010 must have completed no more than 5.0
gilangreation(b)	credits; the recipient for HIST*2450, no more than 10.0 credits and b
	in the history program; and the recipient for HIST*2602, no more that
	10.0 credits.
Amount:	3 awards of \$250
O.A.C. '45 Publ	ic Speaking Awards [C0200]
•	ass of '45 O.A.C., on the occasion of their 40th anniversary. Applicatio
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:	2 awards of \$1,000
O.A.C. '55 Scho	
Provided by the	class of O.A.C. '55. Apply to Student Financial Services by April 1.
Donor(s):	O.A.C. '55
Qualification(s):	Students who are registered in any O.A.C. degree program or student
	enrolled in the B.ENG. program and have completed semester 4.
	Recipients will have made an outstanding contribution to College lift
	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. Recipients mus
	have a 70% minimum cumulative average.
Amount:	1 award of \$2,000
O.A.C. Centenn	ial Graduate Fellowships [C0209]
	ricultural College celebrated its 100th Anniversary in 1974. Man
	d companies associated with the agricultural industry provided fund
	ith the Centennial activities. Funds have been established in perpetuit
	commemoration of the Centennial of the College. Apply to Studen
Financial Service	es by April 1.
Donor(s):	Dean, O.A.C.
Qualification(s):	Students graduating from a degree program administered by the Ontari
	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 are eligible for these fellowships. 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.
	2 awards of \$2.200
Amount:	
	s' Federation Medal [C0217]
	' Federation Medal [C0217]
O.A.C. Students	' Federation Medal [C0217]
<b>O.A.C. Students</b> Application not r <i>Donor(s)</i> :	s' Federation Medal [C0217] required.
<b>O.A.C. Students</b> Application not r <i>Donor(s)</i> :	<ul> <li>Federation Medal [C0217]</li> <li>required.</li> <li>O.A.C.</li> <li>Graduating student in an undergraduate degree program in a major i</li> </ul>
<b>O.A.C. Students</b> Application not r <i>Donor(s)</i> :	s' Federation Medal [C0217] required. O.A.C.

Ontario Agri Bu	siness Association Scholarships (formerly Fertilizer Institute)	R.W. (Bob) Paw	ley Scholarship [I0231]
[I0101]	······································	-	t Financial Services by April 1.
program. Apply t pages in length de Donor(s):	ntario Agri Business Association to worthy students in the B.Sc.(Agr.) o the O.A.C. Awards Committee by April 1 with a letter up to two etailing your involvement. <b>Ontario Agri Business Association</b> These scholarships are presented to students who have completed	Donor(s): Qualification(s): Amount:	Mr. Robert W. Pawley, O.A.C. '39 Student in the B.Sc.(Agr.) prog semesters who has had active par agriculture. 1 award of \$600
	between 10.0-15.0 credits in the B.Sc.(Agr.) program. Academic		
	achievement based on cumulative average and participation in extra		t Scholarships [I0121] tablished by the late Mrs. R. Hat
	curricular activities will be considered in making these awards. 1 award of \$400		ation not required.
	rural FS Cooperatives Scholarship [10289]	Donor(s):	Established by the late Mrs. R. Ha
Ũ	be held once only and is awarded to the student that demonstrates	Ouglification(s)	Harcourt Students who have completed t
leadership abilitions services, or agricu	es and have been involved in extracurricular activities, community iltural employment. Apply to the O.A.C. Dean's Office by April 1 with	Amount:	interest in courses in the Depart 2 awards of \$1,250
a letter of no more or agricultural em	than two pages outlining extracurricular activities, community services,	Robert Keegan	Memorial Scholarship [C0148]
•	Growmark, Inc.		mily of the late Robert Keegan,
Qualification(s):	Students who have completed 7.5 course credits of the B.Sc.(Agr.) degree or B.Comm. (Agricultural Business) degree with a minimum cumulative average of 70%.	Donor(s):	t Financial Services by April 1. The family of the late Robert Kee Student in the Agronomy major
	2 awards of \$800		student with a minimum of 70% proficiency and interest in grain
	Itural Association Scholarship [I0433] Ontario Horticultural Association. Apply to Student Financial Services	Amount:	in student organizations and ex 1 award of \$500
by April 1.		Robert McCanr	Memorial Scholarship [10184
Qualification(s):	Ontario Horticultural Association Student in the B.Sc.(Agr.) program who has excelled in courses in horticultural science and who has completed semester 6.	-	Cann offers this scholarship in
Amount:	1 award of \$500	Donor(s):	Mrs. Edward McCann in honour
Ottawa-Carleton	1983 International Ploughing Match (O.A.C.) Scholarships [I0227]	Qualification(s):	Student who has completed the semester level with an interest i
Assessment Form	t Financial Services by April 1 with a completed Financial Need (N.A.F.) and a letter outlining extracurricular activities.		student must have obtained 70% level and must have been active
().	Ottawa-Carleton International Ploughing Match Committee 1983 Students from the Region of Ottawa-Carleton in the year they have	Amount:	1 award of \$1,250
	completed semester 2 in the B.Sc.(Agr.) program and who have a	-	thelyne L. Fulkerson Scholars
	cumulative average of 70% (minimum) standing in semesters 1 and 2.		t S. Fulkerson, a former faculty duate of O.A.C. in 1946, and h
	Participation in extracurricular activities and financial need will be considered.		applications along with a comple
Amount:	3 awards of \$1,000		be submitted to Student Financia
Oxford County I	Pork Producers Scholarship (Degree) [I0531]	Donor(s): Qualification(s):	Professor Robert S. and Ethelyne Students in agronomy or crop s
O.A.C. Awards C	nty Pork Producers have made available this scholarship. Apply to ommittee by April 1 with a letter of up to two pages in length including t leadership, community involvement and pork industry involvement.	Amount:	6 with at least a 70% cumulativ production, and are in financial 2 awards of \$750
	Oxford County Pork Producers		norial Scholarship [C0147]
~ • • •	Any student who has completed a minimum of 5.0 credits in an O.A.C. degree program with a minimum cumulative average of 70%, pork production background or interest in pork production/industry, and	In memory of Ro	oss Jones, '71 O.A.C., his friends l Services by April 1.
	demonstrated leadership and/or community involvement. Preference will be given to students from Oxford County or surrounding area.	Donor(s): Qualification(s):	Year '71 O.A.C. Graduating student who demonst
Amount:	1 award of \$1,000	A	of Weed Science.
Priscilla and Sta	nford Reid Trust Prize [I0597]	Amount:	1 award of \$600 holarship [C0048]
wife, Priscilla R	nour the first chair of the History Department, Stanford Reid, and his eid to acknowledge the best paper written about the history of		e estate of Samuel Leister Carr.
	und/or the Reformed tradition. Apply, by April 1, with a copy of the ring letter including contact information to the Department of History	Donor(s):	The estate of the late Samuel Lest Student completing the requirem
Qualification(s):	Priscilla and Stanford Reid Trust Fund Any student submitting an essay on the history of Presbyterianism	~ , , , ,	a minimum of 70% standing in demonstrated willingness to ass
	and/or Reformed tradition. 1 award of \$500		College and community activiti candidates who, upon graduation
R.J. Watford Pri			of a farm, that are involved with
	Financial Services by April 1.		operation of the farm, farm relat and who have a capital investm
	R.J. Watford	Amount:	1 award of \$3,000
Qualification(s):	Graduating student who has 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.		

2007-2008	University of	Guelph	Undergraduate	Calendar

	5 1
onor(s): valification(s):	Mr. Robert W. Pawley, O.A.C. '39 Student in the B.Sc.(Agr.) program upon completion of the first 4
ungicanon(s).	semesters who has had active participation or involvement in production
iount:	agriculture. 1 award of \$600
	t Scholarships [I0121]
	tablished by the late Mrs. R. Harcourt in honour of the late Dr. Robert
	ation not required.
onor(s):	Established by the late Mrs. R. Harcourt in honour of the late Dr. Robert Harcourt
ualification(s):	Students who have completed the 4th or 6th semester levels with an interest in courses in the Department of Land Resource Science.
iount:	2 awards of \$1,250
bert Keegan I	Memorial Scholarship [C0148]
•	mily of the late Robert Keegan, formerly Professor of Plant Breeding. Financial Services by April 1.
onor(s):	The family of the late Robert Keegan
. ,	Student in the Agronomy major. The award will be presented to a student with a minimum of 70% standing in his/her final year, a
10unt:	proficiency and interest in grain crops and who has actively participated in student organizations and extracurricular activities. 1 award of \$500
bert McCann	Memorial Scholarship [10184]
rs. Edward Mc nancial Service	Cann offers this scholarship in memory of her son. Apply to Student es by April 1.
onor(s):	Mrs. Edward McCann in honour of her son
ualification(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.
iount:	1 award of \$1,250
bert S. and E	thelyne L. Fulkerson Scholarship [10382]
ience and grad	S. Fulkerson, a former faculty member in the Department of Crop duate of O.A.C. in 1946, and his wife Ethelyne, have endowed two applications along with a completed Financial Need Assessment Form
.A.F.) should b	be submitted to Student Financial Services by April 1.
onor(s):	Professor Robert S. and Ethelyne L. Fulkerson Students in agronomy or crop science who have completed semester
unification(s).	6 with at least a 70% cumulative average, have an interest in crop
	production, and are in financial need may apply.
iount:	2 awards of \$750
ss Jones Men	orial Scholarship [C0147]
	oss Jones, '71 O.A.C., his friends, colleagues and classmates. Apply to I Services by April 1.
onor(s):	Year '71 O.A.C.
	Graduating student who demonstrates the greatest potential in the area of Weed Science.
nount:	1 award of \$600
	holarship [C0048]
fered from the mmittee by Ap	
onor(s):	The estate of the late Samuel Lester Carr Student completing the requirements for the B.Sc.(Agr.) program with
angicanon(s):	a minimum of 70% standing in semester levels 7 and 8 and who has
	demonstrated willingness to assume responsibility and leadership in College and community activities. Preference will be given to
	condicates who, upon graduation, take an active part in the operation
	of a farm, that are involved with the management and day-to-day
	operation of the farm, farm related business, or horticultural enterprise and who have a capital investment in the farm or business.
iount:	1 award of \$3,000

## Society of Management Accountants of Ontario Scholarship [C0268] The scholarship will be awarded at summer convocation. Application not required. One

award of \$500 at in the Society's p	nd a free course enrolment in the first complete CMA subject enrolled 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 BUS*2220 and Intermediate
	Accounting BUS*3330.
Amount:	1 award of \$500, and a free course enrolment in the first complete
	CMA subject enrolled in the Society's program

## Stephanie Wilken Volunteer Award [10449]

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.

#### Bev and Darlene Wilken Donor(s):

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 not required.

#### Professor T.K. Warley Donor(s): 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

## The 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. Apply by letter to Student Financial Services by April 1.

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

In the first instance, the award will be given to an entering student
coming from the Grand River Polytechnical Institute (GRPI) and who
has received the highest cumulative average in the Native University
Access 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 GRPI who has the highest cumulative average at the University.
1 award of \$900

#### Thomas H. Peters Scholarship [I0233] Application not required. Friends and associates of Thomas H. Peters Donor(s): Qualification(s): Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP\*2280, SOIL\*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation. Amount: 1 award of \$250 Toronto District Beekeeper's Association Scholarship [I0285] A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application not required. Mr. Jack Robinson Donor(s):

Qualification(s)	: The recipient will have good academic standing, have participated in
	extracurricular activities, and demonstrated a keen interest in
	beekeeping.
mount:	1 award of \$500

	187
United Steelwor	kers Local 4120 Scholarship [I0293]
11.5	t Financial Services, by January 31.
Donor(s): Qualification(s): Amount:	United Steelworkers LU4120 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. 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, provided that a minimum of 70% standing is obtained. 1 award of \$1,000
	l Van Der Hoeven Memorial Scholarship [10296]
	be made by nominations signed by 4 currently registered students ident Financial Services by April 1. Presentations are made in the Fall Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven
Qualification(s): Amount:	& family 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. 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. 2 awards of \$400
W. Harold Mins	shall Scholarship [10451]
Provided by Dr.	W.H. Minshall (O.A.C.'33). Apply to Student Financial Services by
April 1.	
Donor(s): Qualification(s):	<b>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</b> 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. Awarded on the basis of academic standing in the relevant courses and participation in extra curricular activities.	
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 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 Gold medal

## W.H. Waddell Scholarship [C0300]

Established by Professor W.H. Waddell. Apply to Student Financial Services by April 1. Professor W.H. Waddell Donor(s).

Qualification(s): Graduating student in the Agronomy major who has a high academic standing in plant breeding and in genetics and has demonstrated an interest in Crop Science. Amount: 1 award of \$600

## W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application not required.

	Friends of Walter N. Vaughan 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 Medal	
Waterloo-Wellington CA Association Award [I0367]		
Waterloo-Wellin	ngton CA Association Award [I0367]	
Provided by the V	ngton CA Association Award [I0367] Waterloo-Wellington Chartered Accountant's Association. Awarded in ster. Application not required.	

Qualification(s): Student who achieves the highest academic standing in the course BUS\*3330, Intermediate Accounting. 1 award of \$100 Amount:

188	IX. Scholarships and Other Awards, Bachelor of Science in Agriculture
William A. Brechin Scholarship [10574]	Erin Demers Memorial Scholarship [10406]
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 April 1 to the O.A.C. Awards Office by letter of not more than two pages. <i>Donor(s):</i> Maryon Brechin <i>Qualification(s):</i> Any student registered in a major offered by the Department of Land Resource Science who has completed a minimum 15.0 course credits. <i>Amount:</i> 1 award of \$1,000 William Godfrey Memorial Scholarship in Horticultural Science [I0111] In memory of William Godfrey, '33 O.A.C. Apply to Student Financial Services by April 1. One award of \$1,600 (two payments of \$800).	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 April 1 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.
Donor(s): Mrs. Lisabel Godfrey	Amount: 1 award of \$2,000
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 \$1,600	Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontarico 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. Awarded in the Winter semester. ACCESS AWARD         Donor(s):       Euclid-Hitachi of Canada Ltd.         Qualification(s):       Students with a minimum cumulative average of 70% with
In-course Scholarships with Financial Need	demonstrated financial need. Additionally, students must meet the
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	government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).         Amount:       2 awards of \$1,500
<ul> <li>this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester.</li> <li>Donor(s): 3M Canada Company</li> <li>Qualification(s): Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</li> <li>Amount: 2 awards of \$1,000</li> </ul>	Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Apply to Student Financial Services with a letter describing on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on youu N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial need. Preference will be given to members of the varsity football team. Examples of
City of Guelph 175th Anniversary Scholarship [10515]	leadership may include academic tutoring, mentoring team mates, assisting in the
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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7.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 with more than 5.0 credits	organization and promotion of varsity and/or intramural athletics, participation on university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the winter semester.Donor(s):Mrs. George A. Gray Qualification(s):Qualification(s):Students who are members of varsity teams and in the second, third, fourth or fifth year of full-time study with a minimum 70% average in all courses completed in the previous year of study and have demonstrated leadership.Amount:2 awards of \$1,250
and less than 10.5 credits of full-time study, a minimum cumulative	Graham Family Incentive Scholarship [14506]
<ul> <li>70% average, demonstrated leadership 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.</li> <li>Amount: 1 award of \$2,000</li> </ul>	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. Awarded in the Winter semester. ACCESS AWARD
Eleanor Morgan & Bill Archibald Scholarships [I4540]	Donor(s): Harvey Graham O.A.C. '39
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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> The Family of Eleanor & Bill Archibald	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
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	Guelph Varsity Athletic Accessibility Scholarship [I0518] Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the
	award up to four times. Awarded in the winter semester.         Donor(s):       Alumni and friends of the University of Guelph         Qualification(s):       Students with at least 5.0 credits and less than 20.5 credits, who are members of a varsity athletic team and who have demonstrated financial need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0 credits).         Amount:       2 awards of \$1,250

O.A.C. '52 Schol	larships [I4538]	Walter and Marion MacDougald Scholarship [14530]
program. Apply b and/or university	ass of O.A.C.'52, with the assistance of the Ontario government's OSOTF y letter highlighting involvement in leadership and community activities life along with a completed Financial Need Assessment Form (N.A.F.) cial Services by October 7. Awarded in the Winter semester. ACCESS	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.) To be considered for this award, you must list it on your N.A.F. and include a statement
Donor(s): Qualification(s):	<b>O.A.C. '52</b> 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).	that outlines your interests in food supply, utilization, farmland conservation or woodlo management. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. ACCESS AWARD. <i>Donor(s):</i> <b>Doug MacDougald, D.V.M.</b> <i>Qualification(s):</i> Students demonstrating financial need with a minimum of 10.0 credits
Amount:	2 awards of \$2,500	and less than 15.0 credits and who are in the following
Douglas (O.A.C. 1937 and later n campus and their 7 with a comple	Kathleen Kennedy Scholarship in O.A.C. [I0547] '39) and Kathleen (MAC '39) Kennedy met at a "hop" on campus in narried. They established this scholarship to celebrate their time on 62 years of marriage. Apply to Student Financial Services by October eted Financial Need Assessment Form (N.A.F.). Students will be is award automatically once a N.A.F has been submitted by the deadline	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
date. Awarded in		William & Nona Heaslip Scholarship [I0589]
Donor(s): Qualification(s): Amount:	Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need. 1 award of \$1,000	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
	nd Helen Shaw Memorial Degree Scholarships [14520]	date.
government's OS agricultural activ	he Shaw Scholarship Committee with the assistance of the Ontario SOTF program. Apply with a letter, including a summary of local rities and a completed Financial Need Assessment Form (N.A.F.), to I Services by October 7. ACCESS AWARD	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
Donor(s): Qualification(s):	The Shaw Scholarship Committee Students registered in the B.A.Sc., B.Comm. in Agricultural Business, B.Sc.(Agr.) or D.V.M. programs studying agriculture, horticulture,	Amount: 2 awards of \$15,000
	equine studies, food and nutrition or veterinary sciences with	In-course Awards with Financial Need
	demonstrated financial need, a 70% cumulative average and	Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [I3060]
	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).	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. Awarded in the winter.
Amount:	Several awards of \$1,000	Donor(s): Archie and Isabelle (Cook) Rintoul
In memory of Tas stand in the way	iani Memorial Award [10375] ra Lynn Giuliani, a bright young woman, who did not let her blindness of her studies at the University of Guelph. Apply to the Centre for sabilities by November 25. The Giuliani Family	Qualification(s): Students registered in the department of Environmental Biology in the B.Sc., B.Sc.(Agr.) or the B.Sc.(Env.) degree programs who have completed a minimum of 10.0 credits and who have demonstrated financial need.         Amount:       1 award of \$500
( )	Most academically promising applicant with a demonstrated disability	Bette Stephenson Accessibility Bursary [I3054]
Amount:	and having financial need. 1 award of \$500	In recognition of the work of Dr. Bette Stephenson in supporting students with learning
	elph Retiree Association Degree Scholarship [10569]	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 offse
This bursary is a child, grand-chil demonstration of a Financial Need	wailable to students who are related to a member of the U.G.R.A. as ld, or great grand-child. Selection will be based on the greatest financial need. Apply to Student Financial Services by October 7 with a Assessment Form (N.A.F.) and a letter indicating the name of and e U.G.R.A. member. <b>University of Guelph Retirees Association (U.G.R.A.)</b>	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. <i>Donor(s):</i> University of Guelph
	Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need. 1 award of \$1,000	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 Assessmen Form (N.A.F.) to Student Financial 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):         Brinson Partners Inc.           Qualification(s):         Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF awar (see General Statements on Awards).

(see General Statements on Awards).

2 awards of \$1,500

Burnbrae Far	rms Bursaries [13525]	David R. Leach	Memorial Bursary [I3534]
program to as students. Appl Financial Servi	Burnbrae Farms, with the assistance of the Ontario government's OSOTF sist students with financial need to continue their studies as full-time y with a completed Financial Need Assessment Form (N.A.F.) to Student ices by October 7. Students will be considered for this award automatically has been submitted by the deadline date. Awarded in the Winter semester. ARD. Burnbrae Farms	government's OS '73 and graduate Need Assessmer in the Winter ser <i>Donor(s):</i>	nory of David R. Leach by his family, with the assistance of the Ontario SOTF program. David entered O.A.C. in 1969 as a member of O.A.C. d with a B.Sc. in Agriculture in 1974. Apply with a completed Financial nt Form (N.A.F.) to Student Financial Services by October 7. Awarded mester. ACCESS AWARD <b>Mrs Deborah Leach-Sartor</b> : O.A.C. undergraduate degree or diploma student who is physically
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).	Quanficanon(3).	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
Amount:	2 awards of \$1,500	Amount:	Awards). 1 award of \$1,000
	25th Reunion Bursaries [I3512]		son Bursaries in Horticultural Science [14501]
government's ( to Student Fina by October 7.	the Class of '72: 25th Reunion Fund with the assistance of the Ontario OSOTF program to support students who wish to study full-time. Apply incial Services with a completed Financial Need Assessment Form (N.A.F.) Students will be considered for this award automatically once a N.A.F nitted by the deadline date. Awarded in the Winter semester. ACCESS	Established by t Ontario governi Assessment For considered for th	the estate of Donald P. Watson, O.A.C.'34, with the assistance of the ment's OSOTF program. Apply with a completed Financial Need m (N.A.F.) to Student Financial Services by October 7. Students will be is award automatically once a N.A.F has been submitted by the deadline n the Winter semester. ACCESS AWARD.
Donor(s): Qualification(. Amount:	Class of '72: 25th Reunion 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). 3 awards of \$1,000	Donor(s): Qualification(s).	The estate of Dr. Donald P. Watson 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
Class of O.A.	C. '33 Bursaries [13531]		academic standing in their last 10.00 credits. The scholarships will be
•	the class of O.A.C. '33 on the occasion of their 65th Anniversary, with		awarded based on financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see
	of the Ontario government's OSOTF program. Apply with a completed		General Statements on Awards).
	d Assessment Form (N.A.F.) to Student Financial Services by October 7. e considered for this award automatically once a N.A.F has been submitted	Amount:	Several awards rangining in value between \$500 and \$2,000
	e date. Awarded in the Winter semester. ACCESS AWARD		ntario Bursaries [13507]
Donor(s): Qualification(. Amount:	Class of 1933 (in honour of the late Prof. WIJ. Squirrell) 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). 3 awards of \$500	Foundation with with a completed by October 7. To	e Ontario Egg Producers' Marketing Board and the O.A.C. Alumni in the assistance of the Ontario government's OSOTF program. Apply I Financial Need Assessment Form (N.A.F.) to Student Financial Services to be considered for this award you must indicate it on your N.A.F. and ent outlining your interest in the poultry industry. Awarded in the Winter
	C. '36 Bursaries [13501]	semester. ACCE	ESS AWARD
Established by OSOTF progra to Student Fina automatically Winter semest <i>Donor(s):</i>	<ul> <li>the Class of O.A.C. '36 with the assistance of the Ontario government's am. Apply with a completed Financial Need Assessment Form (N.A.F.) ancial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the er. ACCESS AWARD</li> <li>Class of 1936</li> <li>s): An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the</li> </ul>	Donor(s): Qualification(s). Amount:	Egg Farmers Ontario 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). 6 awards of \$1,000
	government-mandated terms for receipt of an OSOTF award (see	Elizabeth Burto	on Bursaries [13503]
Amount:	General Statements on Awards). 2 awards of \$500	Mrs. Elizabeth B	Burton, with the assistance of the Ontario government's OSOTF program,
	Conservation Authority Foundation Bursary [I3007]	*	es to students with demonstrated financial need. Apply with a completed Assessment Form (N, A, E) to Student Financial Services by October 7.
Apply with a c Services by Oc	ompleted Financial Need Assessment Form (N.A.F.) to Student Financial ctober 7. Students will be considered for this award automatically once a n submitted by the deadline date. Awarded in the Winter semester.	Students will be oby the deadline of	Assessment Form (N.A.F.) to Student Financial Services by October 7. considered for this award automatically once a N.A.F has been submitted date. Awarded in the Winter semester. ACCESS AWARD.
Donor(s):	Credit Valley Conservation Authority Foundation 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	Donor(s): Qualification(s). Amount:	Mrs. Elizabeth Burton 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). Several awards of up to \$2000
	financial need. Preference will be given to a student who resides in a member municipality of the Credit Valley Authority Foundation.		Bursaries [I3025]
Amount:	1 award of \$500	endowment fund need and are dis with a completed by October 7. S	nt Misener, an alumnus of the University of Guelph, has provided this I. These bursaries provide financial assistance to students with established stributed at the discretion of the University Bursary Committee. Apply I Financial Need Assessment Form (N.A.F.) to Student Financial Services tudents will be considered for this award automatically once a N.A.F ted by the deadline date. Awarded in the Winter semester.

Donor(s):

Amount:

Dr. Andrew Grant Misener *Qualification(s):* Students in the B.Sc.(Agr.) program.

Several varies

Gryphon Investment Council Bursaries [I3513]	Helen Mahon Memorial Bursary [I3063]	
Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Awarded 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. 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	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 indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter. <i>Donor(s):</i> Family and Friends of Helen Mahon <i>Owalifestion(c)</i> . Students registered in one program who some from a family where	
Donor(s): Gryphon Investment Council Inc.	<i>Qualification(s)</i> : Students registered in any program who come from a family where one parent is deceased.	
<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally,	Amount: 1 award of \$500	
students must meet the government-mandated terms for receipt of an	Howard and Myrtle Rogers Bursaries [13537]	
OSOTF award (see General Statements on Awards).		
Amount: 2 awards of \$1,500	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	
Guelph Compassionate Health Bursary [I3061] This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately. Duracíal Student Health and Dontal Plan Parama	<ul> <li>Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline data Awarded in the Winter semester. ACCESS AWARD</li> <li><i>Donor(s):</i> The Estate of Howard and Myrtle Rogers</li> <li><i>Qualification(s):</i> Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to app for an award in each year of study. The award may have been held previous years but students must demonstrate on-going financial need.</li> </ul>	
Donor(s): Student Health and Dental Plan Reserve Qualification(s): Students must be registered on the University of Guelph Student Health	Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	
<i>Qualification(s):</i> Students must be registered on the University of Guelph Student Health Plan. The student must require treatment for a condition not currently	Amount: 10 up to \$2,000	
or completely covered by the Student Health Plan.	International Emergency Medical Aid Assistance [I3059]	
Amount: Several varies to a maximum \$1,000	The University of Guelph provides support to International undergraduate students that	
Guelph Student Assistance ACCESS Bursaries [I3556]	are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not	
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	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	
for this award automatically once a N.A.F has been submitted by the deadline date. Typically, awarded in the Winter semester. ACCESS AWARD.	University of Guelph with a minimum registration of 1.50 course	
Donor(s): Central Student Association	credits. Amount: Several awards of varying amounts	
<i>Qualification(s):</i> Full-time undergraduate students registered in any degree program		
with demonstrated financial need. Additionally, students must meet	International Student Bursaries [I3009]	
the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).	Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor. Donor(s): Mrs. Norma L. Valeriote	
Amount: Several awards of varying amounts up to \$1,000	Donor(s): Mrs. Norma L. Valeriote Qualification(s): Students who are citizens of Third World countries, as defined by the	
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	United Nations, who are registered in a degree or diploma program and who demonstrate financial need. Amount: Several of varying amounts	
provincial and/or federal assistance programs such as Ontario Student Assistance Program	Irvine and Grace Black Memorial Bursary [I3051]	
<ul> <li>(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. Typically, awarded in the Winter semester.</li> <li>Donor(s): Undergraduate Students</li> <li>Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.</li> <li>Amount: Several awards of varying amounts up to \$1,000</li> <li>Gwen Karr Memorial Bursary [I3010]</li> </ul>	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. Awarded in the Winter semester. <i>Donor(s):</i> Family and friends of Irvine and Grace B.L.A.ck	
• • •	Qualification(s): Full-time undergraduate students registered in any degree program	
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. Awarded in the Winter semester	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	
by the deadline date. Awarded in the Winter semester. <i>Donor(s):</i> Mr. T.K.C. Karr, O.A.C. '32	Leroux Bursaries [13535]	
Donor(s):       Mr. T.K.C. Karr, O.A.C. '32         Qualification(s):       O.A.C. students with demonstrated financial need         Amount:       Several varies	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. Awarded in the Winter semester. 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:

OSOTF award (see General Statements on Awards).

4 awards of \$1,000

Mary I. White	lock Bursaries [13524]	O.A.C. Alum	ni Foundation Access Bursaries [I3533]	
	the estate of Mary I. Whitelock, a friend of the University, with the		the O.A.C. Alumni Foundation, with the assistance of the Ontario	
	e Ontario government's OSOTF program, to assist students who wish to		OSOTF program. Apply with a completed Financial Need Assessmen	
	but who need financial support to do so. Apply with a completed Financial		to Student Financial Services by October 7. Students will be considered	
	ent Form (N.A.F.) to Student Financial Services by October 7. Students	for this award	automatically once a N.A.F has been submitted by the deadline date	
	red for this award automatically once a N.A.F has been submitted by the	Awarded in th	e Winter semester. ACCESS AWARD	
	Awarded in the Winter semester. ACCESS AWARD.	Donor(s):	O.A.C. Alumni Foundation	
Donor(s):	Estate of Mary I. Whitelock	Qualification(	s): O.A.C. undergraduate students with demonstrated financial need.	
Qualification(s	): Students with demonstrated financial need. Additionally, students must		Additionally, students must meet the government-mandated terms for	
	meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).	Amount:	receipt of an OSOTF award (see General Statements on Awards). 4 awards of \$500	
Amount:	13 awards of \$2,000			
	ursaries [13514]		Business Association Degree Bursaries [I3502] gri Business Association, with the aid of the Ontario government's OSOT	
Established by	Masterfeeds and the O.A.C. Alumni Foundation, with the assistance of		made available four bursaries of \$750. Apply by October 7 to Studer	
	vernment's OSOTF program. Apply with a completed Financial Need		ices with a letter, of up to two pages in length, detailing your involvemer	
	rm (N.A.F.) to Student Financial Services by October 7. Students will be	-	ed Financial Need Assessment Form (N.A.F.). Students will be selected	
	his award automatically once a N.A.F has been submitted by the deadline in the Winter semester. ACCESS AWARD.		onstrated financial need and on involvement in community/extracurricula CESS AWARD.	
Donor(s):	Masterfeeds	Donor(s):	Ontario Agri Business Association	
	): O.A.C. students in B.Sc.(Agr.) Animal Science or B.Sc. Animal		s): Students who have completed a minimum of 10.0 credits in the	
	Biology majors who have demonstrated financial need and, at the time	• .	B.SC.(Agr.) program in either an unspecialized major or in Food	
	of application, have a cumulative average of 60%. Students may receive		Agriculture and Resource Economics, Animal Science, Agronomy o	
	one or two bursaries annually. Additionally, students must meet the		in the B.Comm. program in Agricultural Business. Students must have	
	government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).		a minimum cumulative average of 60%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award	
Amount:	4 awards of \$500		(see General Statements on Awards).	
	yd Minshall Bursaries [13529]	Amount:	4 awards of \$750	
	O.A.C. '38 Alumni, with the assistance of the Ontario government's		emen's Association Degree Bursary [13506]	
	m, to recognize the many contributions of Lloyd Minshall to his classmates	-	he Ontario Cattlemen's Association and the O.A.C. Alumni Foundatio	
10	Apply with a completed Financial Need Assessment Form (N.A.F.) to		ance of the Ontario government's OSOTF program. Apply by letter wit	
	ial Services by October 7. Students will be considered for this award	a completed Financial Need Assessment Form (N.A.F.) to Student Financial Service by October 7. Students will be considered for this award automatically once a N.A. has been submitted by the deadline date. Awarded in the Winter semester. ACCES		
automatically o	once a N.A.F has been submitted by the deadline date. Awarded in the			
Winter semeste	er. ACCESS AWARD			
Donor(s):	O.A.C. '38 Alumni	AWARD.		
Qualification(s	): O.A.C. undergraduate students with demonstrated financial need in	Donor(s):	Ontario Cattlemen's Association	
	semesters 5, 6, 7 or 8 and O.A.C. graduate students are eligible to	Qualification(	s): Students with demonstrated financial need who are enrolled in semester 5 = a + b + a = 2	
	apply. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on		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	
	Awards).		60% minimum cumulative average. Additionally, students must mee	
Amount:	7 awards of \$1,000		the government-mandated terms for receipt of an OSOTF award (see	
O.A.C. '55 Acc	cess Bursaries [I3517]		General Statements on Awards).	
	e class of O.A.C. '55 with the assistance of the Ontario government's	Amount:	4 awards of \$500	
OSOTF program	m. Apply with a completed Financial Need Assessment Form (N.A.F.)		peratives R.P. Forshaw Bursary [I3013]	
	ncial Services by October 7. Students will be considered for this award		tives, Credit Unions, friends and associates of Prof. R. P. Forshaw hav	
	once a N.A.F has been submitted by the deadline date. Awarded in the		s bursary. Apply to Student Financial Services with a completed Financia	
	P. ACCESS AWARD.		The Comparatives Credit Unions friends and associates of Prof. P. P.	
Donor(s): Qualification(s	O.A.C. Class of '55 ): Students at any semester level in an O.A.C. degree program or students	Donor(s):	The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw	
Qualification(s)	enrolled in the B.ENG. program with demonstrated financial need and	Qualification(	s): Undergraduate students who have financial need. Preference may be	
	a 60% minimum cumulative average. Additionally, students must meet	~	given to candidates who have been or are members of a co-operative	
	the government-mandated terms for receipt of an OSOTF award (see		or credit union.	
		Amount:		
	General Statement on Awards).		1 award of \$400	
Amount:	General Statement on Awards). Several awards of \$500	<b>Ontario Fede</b>	1 award of \$400 ration of Agriculture Bursaries [13520]	
Amount: <b>O.A.C. '57 Bu</b> r	Several awards of \$500		ration of Agriculture Bursaries [13520]	
O.A.C. '57 Bur Provided by the	Several awards of \$500 <pre>rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's</pre>	Provided by the with the assist	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a lette	
<b>O.A.C. '57 Bur</b> Provided by the OSOTF program	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.)	Provided by the with the assist and a complete	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a lette ed Financial Need Assessment Form (N.A.F.) to Student Financial Service	
O.A.C. '57 Bur Provided by the OSOTF program to Student Fina	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award	Provided by the with the assist and a complete by October 7.	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a lette ed Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. an	
O.A.C. '57 Bur Provided by the OSOTF program to Student Fina automatically o	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the	Provided by the with the assist and a complete by October 7. include a state	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a lette ad Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. an ement outlining your extracurricular activities. Awarded in the Winte	
O.A.C. '57 Bur Provided by the OSOTF program to Student Fina automatically o Winter semeste	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the er. ACCESS AWARD	Provided by th with the assist and a complete by October 7. include a state semester. ACC	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a lette ed Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. an ement outlining your extracurricular activities. Awarded in the Winte CESS AWARD	
<b>O.A.C. '57 Bur</b> Provided by the OSOTF program to Student Fina automatically o Winter semeste <i>Donor(s):</i>	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the r. ACCESS AWARD O.A.C. '57 and the O.A.C. Alumni Foundation	Provided by th with the assist and a complete by October 7. include a state semester. ACC <i>Donor(s):</i>	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a lette d Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. an ement outlining your extracurricular activities. Awarded in the Winte CESS AWARD Ontario Federation of Agriculture	
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<b>O.A.C. '57 Bur</b> Provided by the OSOTF program to Student Fina automatically o Winter semeste <i>Donor(s):</i>	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the tr. ACCESS AWARD O.A.C. '57 and the O.A.C. Alumni Foundation ): O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated	Provided by th with the assist and a complete by October 7. include a state semester. ACC <i>Donor(s):</i>	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundation ance of the Ontario government's OSOTF program. Apply with a letter d Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. and ement outlining your extracurricular activities. Awarded in the Winte CESS AWARD Ontario Federation of Agriculture 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	
<b>O.A.C. '57 Bur</b> Provided by the OSOTF program to Student Fina automatically o Winter semeste <i>Donor(s):</i>	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the er. ACCESS AWARD O.A.C. '57 and the O.A.C. Alumni Foundation ): 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	Provided by th with the assist and a complete by October 7. include a state semester. ACC <i>Donor(s):</i>	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundation ance of the Ontario government's OSOTF program. Apply with a letter d Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. and ement outlining your extracurricular activities. Awarded in the Winte CESS AWARD Ontario Federation of Agriculture 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	
O.A.C. '57 Bur Provided by the OSOTF program to Student Fina automatically o Winter semeste Donor(s): Qualification(s)	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the r. ACCESS AWARD O.A.C. '57 and the O.A.C. Alumni Foundation ): 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).	Provided by th with the assist and a complete by October 7. include a state semester. ACC <i>Donor(s):</i>	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundatio ance of the Ontario government's OSOTF program. Apply with a letter d Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. an ement outlining your extracurricular activities. Awarded in the Winte CESS AWARD Ontario Federation of Agriculture 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 wi be given to students from farm families who have participated in 4H and/or rural community activities. Additionally, students must meet	
<b>O.A.C. '57 Bur</b> Provided by the OSOTF program to Student Fina automatically o Winter semeste <i>Donor(s):</i>	Several awards of \$500 rsaries [13518] e Class of O.A.C. '57 with the assistance of the Ontario government's m. Apply with a completed Financial Need Assessment Form (N.A.F.) incial Services by October 7. Students will be considered for this award once a N.A.F has been submitted by the deadline date. Awarded in the er. ACCESS AWARD O.A.C. '57 and the O.A.C. Alumni Foundation ): 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	Provided by th with the assist and a complete by October 7. include a state semester. ACC <i>Donor(s):</i>	ration of Agriculture Bursaries [13520] ne Ontario Federation of Agriculture and the O.A.C. Alumni Foundation ance of the Ontario government's OSOTF program. Apply with a lette d Financial Need Assessment Form (N.A.F.) to Student Financial Service To be considered for this award you must indicate it on our N.A.F. and ement outlining your extracurricular activities. Awarded in the Winte CESS AWARD Ontario Federation of Agriculture 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	

Awards).

3 awards of \$500

Amount:

IX. Scholarships and Other Awards, Bachelor of Science in Agriculture	193
Ontario Grape Growers Bursary [I3033]	University of Guelph Access Bursaries [I3522]
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. Awarded in the Winter semester.         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	Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) diploma 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. Awarded in the Winter semester. ACCESS AWARD. Variable amounts from \$500 to \$2,000 Donor(s): Alumni and Friend of the University of Guelph Qualification(s): Full-time students with demonstrated financial need. Additionally,
Ontario Pork (Degree) Bursary [13049]	students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Provided by Ontario Pork Producers' Marketing Board. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students	Amount: Several awards of \$500, Several awards of \$2,000
will be considered for this award automatically once a N.A.F has been submitted by the	University of Guelph Alumni Association Access Bursaries [13523]
deadline date. Awarded in the Winter semester.	Established by the University of Guelph Alumni Association, with the assistance of the
Donor(s):         Ontario Pork Producers' Marketing Board           Qualification(s):         B.Sc.(Agr.) and B.Comm., Agricultural Business major, students with demonstrated financial need who have completed semester 4 and who have satisfactory academic standing and an interest in pork production.           Amount:         1 award of \$500	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. Awarded in the Winter semester. ACCESS AWARD.
Robert Auger Humanitarian Bursary [I3058]	Donor(s):         University of Guelph Alumni Association           Qualification(s):         Full-time in-course students with demonstrated financial need.
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	Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). <i>Amount:</i> 2 awards of \$1,000      University of Guelph Child Care Bursaries [I3053]
grocery, and textbook vouchers.	In order to provide accessible child care to students with (a) child(ren), the University
Donor(s):         Office of Registrarial Services           Qualification(s):         Students who require assistance through this fund should apply in confidence to the Assistant Registrar, Financial Aid, Student Financial Services.	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. Awarded in the Winter semester.
Amount: Several awards of \$500	Donor(s): University of Guelph Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial
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	Qualification(s):       Students, supporting (a) child(ref) who demonstrate greatest matrix 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 financineed.         Amount:       Several awards of up to \$2,000
date. Awarded in the Winter semester. ACCESS AWARD.	University of Guelph International Bursary [I3048]
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	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.
T.K. Warley Bursaries [I3510]	Donor(s):         University of Guelph           Qualification(s):         Any International student registered in a degree program at the
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	<i>Amount:</i> Several varies
promotion/development of "Experience Agriculture". A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed	University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]
Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS AWARD.	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
Donor(s):         O.A.C. Alumni Association           Qualification(s):         Students with demonstrated financial need who are in semester 5 to 8	Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. <i>Donor(s):</i> University of Guelph
<i>Qualification(s):</i> 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).	Donor(s):       University of Gueph         Qualification(s):       Ontario students registered for full-time studies (as defined by OSAP)         in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed.         Amount:       Several awardsranging in value from \$100 to \$3,000

Amount:

imum Amount: Several awardsranging in value from \$100 to \$3,000 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. Awarded in the Winter semester. University of Guelph Donor(s): Qualification(s): Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed.

Several awards to a maximum of \$800

University Police Bursaries [I3019]	Canada's Outdoor Farm Show Travel Grants [T3536]
The University Police have made available a number of bursaries. Apply to Student	Established by Canada's Outdoor Farm Show and the O.A.C. Alumni Foundation, with
Financial Services with a completed Financial Need Assessment Form (N.A.F.) by	the assistance of the Ontario government's OSOTF program. Apply to Student Financial
October 7. Students will be considered for this award automatically once a N.A.F has	Services with a completed Financial Need Assessment Form (N.A.F.) by February 1.
been submitted by the deadline date.	The letter should outline the reasons for participating in the meeting, competition, etc.,
Donor(s): The University Police	and include a brief statement of learning objectives and appropriate involvement in
Qualification(s): Full-time undergraduate and graduate students who have financial	student activities. Upon successful return from travel opportunity, student(s) should be
need.	willing to present report to classmates and/or faculty. ACCESS AWARD
Amount: Several of various amounts	Donor(s): Canada's Outdoor Farm Show
University Student Assistance Program [I3057]	<i>Qualification(s):</i> Undergraduate students in O.A.C. who have completed semester 4 in Agricultural Science or Agricultural Business or who have completed
These bursaries have been established and approved by the University of Guelph to	semester 2 of the Diploma in Agriculture program (Alfred, Guelph,
assist undergraduate and University of Guelph campus diploma students in financial	Kemptville, Ridgetown).
need. Apply to Student Financial Services with a completed Financial Need Assessment	Amount: 1 award of \$1,000
Form (N.A.F.) by October 7. Typically, awarded in the Winter semester.	Canadian Friends of the Hebrew University in Jerusalem Travel Bursary [T4532]
Donor(s): University of Guelph	The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the
<i>Qualification(s):</i> Full-time undergraduate students registered in any degree program	Ontario government's OSOTF program, have established these travel scholarships to
with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs	assist students study at the Hebrew University of Jerusalem. Apply by letter with a
such as Ontario Student Assistance Program (OSAP) and/or Canada	completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by
Student Loan Program (CSLP).	May 1. ACCESS AWARD. Up to three awards totalling \$7500.
Amount: Several awards of various amounts to a maximum of \$1,000	Donor(s): Canadian Friends of the Hebrew University in Jerusalem
In-course Travel Grants	Qualification(s): Undergraduate degree students in either the second or third year of
	study, Masters students in the first year of study, and Doctoral students
A.W. Archibald Memorial Travel Grant [T4541]	in the first three years of study are eligible to be considered. Applicants must provide documentation that they have approval from the Hebrew
Mr. A.W. Archibald, O.A.C. '33 with the assistance of the Ontario government's OSOTF	University of Jerusalem (i) to take courses and (ii) for the period of
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	the visit. Students must also arrange appropriate University of Guelph
purposes. Apply to Student Financial Services with a letter outlining proposed travel	approvals for a "Letter of Permission" prior to applying. Additionally,
plans and academic purpose accompanied by a letter of support from a faculty member	students must meet the government-mandated terms for receipt of an
or student advisor, a travel budget, and a completed Financial Need Assessment Form	OSOTF award (see General Statements on Awards).
(N.A.F.) by October 7. ACCESS AWARD.	Amount: 3 Awards with varying amounts
Donor(s): A.W. Archibald, O.A.C. '33	Charles and Betty Webster International Study Scholarships [T0575]
Qualification(s): Undergraduate students in any O.A.C. program with demonstrated	Established by Elizabeth Comper in memory of her parents, Charles Webster, O.A.C.
financial need. Additionally, students must meet the	'36 and Betty Webster. Submit a letter of no more than two pages outlining the intended
government-mandated terms for receipt of an OSOTF award (see	international exchange or study abroad program, reasons for choosing the program and
General Statements on Awards).	the anticipated benefits of participation in the program. Letters should also include a
Amount: Several up to \$1000	brief summary of extracurricular and student related activities. Letters of recommendation will also be considered as part of the application package. Selection will be based on
Aeroplan International Travel Grant [T0604]	the international study program benefit to individual applicant and leadership potential
Established to provide students with an airline ticket to international destinations served	based on information submitted in the application. Apply to O.A.C. Awards office by
by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need	April 1, no more than two semesters prior to the commencement of the travel program.
Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student	Donor(s): Mrs. Elizabeth Comper
Financial Services. Award is subject to the availability of Aeroplan miles and may not	Qualification(s): Students enrolled in B.Sc.(Agr) with a minimum 75% cumulative
be available every year.	average who intend to participate in an international exchange program
Donor(s): Aeroplan	or semester abroad.
<i>Qualification(s):</i> Full-time students with a minimum cumulative average of 70%,	Amount: 1 award of \$1,300
completion of a minimum of 5.0 credits and confirmed participation	D & G Hart Travel Grant [T0601]
in University of Guelph travel activities related to their academic	Douglas H., O.A.C. 1922, and George M., O.A.C. 1927, were long time supports of
program. Preference will be given to students participating in the	O.A.C. and believed greatly in the benefits that travel provided to an individual's personal
semester abroad or academic exchanges.	and professional growth. Apply to the O.A.C. Awards Office by April 1 with a letter of
Amount: 1 plane ticket per each semster	no more than two pages, outlining the intended study program/conference/or other type
Arthur D. Latornell Undergraduate Travel Grants [T0058]	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
An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who had	application package. This award cannot be held with any other University of Guelph
a life-long professional career in resource management and conservation and a special	Travel Grant.
interest in helping young people. The funds are given to provide twenty-five travel grants.	Donor(s): Family of Douglas and George Hart
These travel grants are offered to assist students in attending conferences, courses, co-op	<i>Qualification(s):</i> Students currently enrolled in any O.A.C program with a minimum
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 1 for Fall	70% cumulative average who intend to participate in travel related to
travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of	course study.
estimated travel costs to a maximum of \$1,000.	Amount: 1 award of up to awards of \$1,000
Donor(s): The Estate of Arthur D. Latornell	
<i>Qualification(s):</i> Students in semester 3 and above. Students must have at least a 70%	
average and a primary area of interest 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	

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Frank E. Wolff International Scholarships [T0313]	Massey Fund Travel Scholarships [T0417]
Think 2. Wolff international Scholarships [10010]         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 April 1.         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 9 awards of \$600	<ul> <li>Travel scholarships available from the Massey Fund. Not tenable with other awards th support travel costs. Apply by letter outlining the study abroad/exchange program ar travel costs to the O.A.C. Dean's Office by April 15.</li> <li>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 standir in the last two full-time semesters or equivalent will be used to determine recipients. Amount: 1 award of \$750</li> <li>Michael Chepesuik International Travel Grant [T0373]</li> <li>Offered in memory of the late Michael W. Chepesuik, O.A.C.'30. Application by lette should be made to the O.A.C. Dean's Office by April 15, and include a description of the study program. Travel grant (or grants). Up to 80% of the actual travel costs associate with the study outside of Canada program will be covered up to a maximum of \$1,00 per student.</li> </ul>
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 April 1, 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. <i>Donor(s):</i> <b>Mr. F.W. Bray</b> <i>Qualification(s):</i> Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average	<ul> <li>Donor(s): Mr. Michael W. Chepisuik</li> <li>Qualification(s): Undergraduate or graduate students pursuing studies in Food Agriculture and Resource Economics and who are studying outside a Canada for one or more semesters.</li> <li>Amount: 1 award of \$1,000</li> <li>O.A.C. '05 Excellence Travel Grant [T0060]</li> <li>In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 200 Apply to the O.A.C. Awards Office by April 1 with the submission of a letter of r 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</li> </ul>
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	<ul> <li>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.</li> <li>Donor(s): Class of OAC 1905 and the Class of OAC 2005</li> <li>Qualification(s): Student who are currently registered in an Ontario Agricultural Collegundergraduate degree program and wish to travel to expand their educational opportunities.</li> </ul>
<ul> <li>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 April 1. 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.</li> <li>Donor(s): Class of O.A.C. '53</li> <li>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.</li> <li>Amount: 3 awards of \$1,800</li> </ul>	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 assistant of the Ontario government's OSOTF program. Apply by letter with a completed Travel Award Application and a Financial Need Assessment Form (N.A.F.) for Travel aware to Student Financial Services by October 1, February 1 or June 1. ACCESS AWARI Donor(s):         O.A.C. '47         Qualification(s):       O.A.C. undergraduate students who have demonstrated financial neural 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
Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by April 1 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	General Statements on Awards).         Amount:       3 awards of \$600         O.A.C. '54 International Study Scholarship [T0586]
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 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	<ul> <li>Established in memory of Beth Duncan to support students participating in an exchan program, study abroad semester, or a field trip course. Submit a letter (of not more th two pages) outlining the intended international study program, reasons for choosing t program and the anticipated benefits of participation. Letters should also include a bri summary of extracurricular and student related activities. Letters of reference will considered. Apply to the O.A.C. Awards Office by April 1, no more than two semester prior to the commencement of the program.</li> <li>Donor(s): Class of O.A.C. '54</li> <li>Qualification(s): Currently registered students in O.A.C. who are Canadian citizens permanent residents with a minimum 75% cumulative program avera who intend to participate in an exchange program, semester abroad or field trip course.</li> <li>Amount: 2 awards of \$1,450</li> </ul>

## 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 description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. 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 April 15. Varying amounts (80% of the travel costs will be covered up to \$750 per student).

#### 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 varies

## 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 April 15, and include a description of the study abroad program. Travel grant (or grants) totalling \$1,500.

#### 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 \$1,500

#### 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 undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.

#### *Donor(s):* University of Guelph

Qualification(s):	Registered undergraduate and graduate students that have completed
	5.0 credits with demonstrated financial need who have a minimum
	70% cumulative average in the last two semesters of full-time
	equivalent study are eligible to apply. The value of the award will
	depend on the assessed financial need. The scholarship can cover
	additional costs of travelling outside of Canada including: airfare,
	administrative costs, and differential costs of accommodation.
Amount:	Several 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 Student Financial Services by April 1, including a letter from the Dean or Director approving the proposed program of study.

## Donor(s): Miss Bertha Manent

Qualification(s)	: O.A.C. students who are pursuing a course of study for one or two
	semesters at another college or faculty of agriculture in Canada or in
	another country. Such course of study must lead to the degree of
	B.Sc.(Agr.), B.Comm. in Agricultural Business or the Diploma in
	Agriculture at the University of Guelph.
Amount:	3 awards of \$750

## **Bachelor of Science in 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**

## Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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

Association of Professional Engineers of Ontario Scholarship [E0016]	
Amount:	4 awards of \$7,000
	projects.
	75% admission average and completion of a minimum of 10 4H
Qualification(s):	Full-time students entering semester 1 who have attained a minimum

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 not required.

#### Donor(s): Professional Engineers of Ontario.

Qualification(s):Students entering the B.ENG. with the highest admission average.Amount:2 awards of \$1,500

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

## Donor(s): Board of Governors

Qualification(s): Outstanding students entering semester 1 Amount: 25 awards of \$8,000

## Danone Crystal Springs Water Resources Engineering Entrance Scholarships [E0514]

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. Application 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. 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.

 Amount:
 1 award of \$2,250 (\$750 in each of semesters 1, 3 and 5).

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Dr. Jack Britn	ey Scholarship [E0034]
Established in r	nemory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and forme
	r in the former School of Food Agriculture and Resource Economics and
•	cation to a graduate student from any of the O.A.C. Diploma program
	of the University of Guelph campuses that enters a degree program at th
•	
•	Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on th
main 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. Preference will be given to Graduates of the
	Diploma in Agriculture program.
A	1 0 10
Amount:	1 award of \$1,200
Earl B. MacNa	aughton Entrance Scholarships [E0172]
Established by	friends, faculty, staff, alumni and students of the University to honou
Earl B. MacNa	ughton, former head of the Department of Physics and founding Dean o
	Physical Science. Application 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. Emphasis will be
	given to academic achievement in high school science and mathematics
Amount:	4 awards of \$1,000
Gordon W In	nes Scholarship [E0140]
Application no	1
Donor(s):	Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock
0.110	Agricultural Society.
~ ~ ~	): Student from Oxford County with the highest admission average.
Amount:	1 award of \$1,400
International S	Student Entrance Scholarships [E0408]
	e University's strategic direction of internationalism, entrance scholarship
	ach Fall semester to the top international students entering their firs
	undergraduate degree program at the University of Guelph. Applicant
	l relevant documentation for admission consideration by March 1 to b
considered for	a scholarship. These scholarships are awarded on a competitive basis
Application no	t required.
Donor(s):	University of Guelph
	): Students on a "student visa" entering an undergraduate degree program
Qualification(s	
	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
I.D. MacLach	lan Scholarship [E0170]
	e family of J.D. MacLachlan. Application not required.
Donor(s):	The J.D. MacLachlan Trust
Qualification(s	): Student entering the University with the highest admission average.
Amount:	1 award of \$1,500
Lincoln Alexa	nder Chancellor's Scholarship [E0493]
	=
	hips of \$26,000 (\$6,500 annually) plus the opportunity for a summe
	anship after the first year of study (approximately \$6,000 stipend) wer
	nonour Lincoln Alexander, Chancellor of the University of Guelph an
former Lieuten	ant Governor of Ontario, on his 80th birthday. They are intended t
	t diversity and are amongst the most prestigious entrance awards at th
	Guelph. Students cannot apply directly for this award. Nominations mus
	ch high school. Each high school can nominate one student who cannot
•	t's Scholarship nominee. The nomination process is a two-part process
oe me i residen	
(a) the school	
	s nomination and (b) the student's supporting documentation. This i
outlined in the 1	s nomination and (b) the student's supporting documentation. This i naterial sent to each high school in Canada from the University of Guelpl
outlined in the 1 each fall. High	s nomination and (b) the student's supporting documentation. This i naterial sent to each high school in Canada from the University of Guelp schools must submit the complete application (both parts) directly to th
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outlined in the r each fall. High Associate Regi Donor(s):	s nomination and (b) the student's supporting documentation. This i naterial sent to each high school in Canada from the University of Guelp schools must submit the complete application (both parts) directly to th strar, Student Financial Services by Feb. 1. Many Donors
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outlined in the r each fall. High Associate Regi Donor(s):	<ul> <li>s nomination and (b) the student's supporting documentation. This i naterial sent to each high school in Canada from the University of Guelpl schools must submit the complete application (both parts) directly to the strar, Student Financial Services by Feb. 1.</li> <li>Many Donors</li> <li>): Entering students of academic distinction who are Aboriginal, person with a disability or members of a racial minority, and who have mad significant contributions to their schools and communities and</li> </ul>
outlined in the r each fall. High Associate Regi Donor(s):	<ul> <li>s nomination and (b) the student's supporting documentation. This i naterial sent to each high school in Canada from the University of Guelpl schools must submit the complete application (both parts) directly to the strar, Student Financial Services by Feb. 1.</li> <li>Many Donors</li> <li>): Entering students of academic distinction who are Aboriginal, person with a disability or members of a racial minority, and who have made</li> </ul>

2 awards of \$26,000

## McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.

Donor(s):	Wilhelmina McArthur-Humphries Trust Fund
Qualification(s):	Students entering semester 1 with a minimum 75% admission average.
	Preference will be given to those students from Lanark and Wellington
	Counties. 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.
Amount:	12 awards 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

## Donor(s): Paul and Aileen Clarke

 Qualification(s):
 Students with a minimum 80% average with a record of leadership and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

 Amount:
 1 award of \$12,000

## Phyllis Mary Carpenter Scholarship [E0503]

Established through the generosity of The Carpenter Family Fund, administered by the Hamilton Community Foundation to recognize academic excellence. Application not required.

## Donor(s): The Carpenter Family Fund, administered by the Hamilton Community Foundation

Qualification	(s): Full-time student entering the Environmental Engineering
	Undergraduate Program from a publicly funded Ontario secondary
	school. Awarded to the student with the highest entering admission
	average. Preference will be given to students from the Hamilton or
	Burlington area.
Amount:	1 award of \$1,500

#### President's Scholarship [E0238] The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall.

# Registrar, Student Financial Services by Feb. 1. Donor(s): A number of President's Scholarships have been named in honour of the following people and/or donors: Dick Brown

High schools must submit the complete application (both parts) directly to the Associate

Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1968 to 1988.

#### 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): Entering students of academic distinction who have made significant contributions to their schools and communities and demonstrate the potential to become leaders in society.

 Amount:
 12 awards of \$26,000

## The 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. Apply by letter to Student Financial Services by April 1.

## Donor(s): Jack and Lillian MacDonald

Qualificati	ion(s): In the first instance, the award will be given to an entering student
	coming from the Grand River Polytechnical Institute (GRPI) and who
	has received the highest cumulative average in the Native University
	Access 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 GRPI who has the highest cumulative average at the University.
Amount:	1 award of \$900

University of Guelph Entrance Scholarships [E0291]	Devine Family Scholarship [E4542]
This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall_current_merit.shtml. Application not required. Donor(s): University of Guelph Qualification(s): Students entering their first year of post-secondary studies for the first time and have a minimum 85% admission average. Amount: Several awards ranging in value from \$2,000 to \$3,000	On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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
University of Guelph Faculty Association Scholarship [E0292]	Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is May 1. Scholarship offers will be made in May. This award is not
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. Application not required.         Donor(s):       University of Guelph Faculty Association         Qualification(s):       Student entering an undergraduate degree program at the University of Guelph with the highest admission average who has been a resident in the County of Wellington during the previous twelve months.         Amount:       1 award of \$2,250	<ul> <li>tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.</li> <li>Donor(s): Mr. Peter J. Devine</li> <li>Qualification(s): Students entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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).</li> </ul>
W. Penri Morris Memorial Scholarship [E0430]	Amount:       1 award of \$25,000 (payable over 4 years of study)         Kenneth O. Hammill-Blount Canada Scholarship [E4356]
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 not required. <i>Donor(s):</i> <b>Prof. Rosalina Morris</b> <i>Qualification(s):</i> Students entering first year of any undergraduate program from North	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 (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 May 1. ACCESS AWARD.
Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.         Amount:       1 award of \$1,000	Donor(s):         The Blount Foundation, Inc.           Qualification(s):         Students from the Province of Ontario, with demonstrated financial need, entering one of the following programs on an annual rotation:
Entrance Scholarships with Financial Need	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
Bill Klopp Memorial Award [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 May 1. 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).         Donor(s):       Ross and Mary Lou Klopp Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who	to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). 1 award of \$9,600, payable in 8 payments of \$1,200 <b>Registrar's Entrance Scholarships [E0384]</b>
has financial need. Amount: 1 award of \$500	Established by the University of Guelph to support entering undergraduate students with
	identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the University

of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards. *Donor(s):* University of Guelph

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic merit.
Amount:	500 awards of \$2,000

	rms Scholarships [E4519]	In-course S
	Rol-Land Farms, with the assistance of the Ontario government's OSOTF	Association o
	tract entering students who might otherwise not be able to attend university easons. Students should complete the online Financial Need Assessment	Application n
	) application as soon as they receive their Acknowledgement Package from	Donor(s):
has been subm	prvices (this will come automatically after an application for admissions hitted by the student). Deadline to submit the application is May 1. ACCESS	Qualification
AWARD		Amount:
Donor(s):	Rol-Land Farms	Association of
Qualification(	(s): Outstanding entering undergraduate degree students with demonstrated financial need and a minimum 80% cumulative average. Additionally,	Apply to the
	students must meet the government-mandated terms for receipt of an	Donor(s):
	OSOTF award (see General Statements on Awards).	Qualification
Amount:	13 awards of \$2,000	
University of	Guelph Accessibility Scholarship [E3038]	
	y the University of Guelph to support entering undergraduate students with	Amount:
	ncial need. Students should complete the online Financial Need Assessment	Bill Taylor M
	application as soon as they receive their Acknowledgement Package from prvices (this will come automatically after an application for admissions	Applications
	mitted by the student). Deadline to submit the application is May 1.	to Student Fir
Scholarship of	ffers will be made in May. This award is not tenable with the Registrar's	Donor(s):
	blarship, but can be held with all other Entrance Awards. Approximately $550,000,62,000$ in ware and $52,000$ in ware 2, 2 and 4)	Qualification
	\$ \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).	
Donor(s): Qualification(	University of Guelph (s): Students entering a full-time undergraduate program on the basis of	
Quantification(	financial need and academic excellence.	
Amount:	150 awards of \$9,000	Amount:
Entrance A	Awards with Financial Need	Canadian Fe
Harvey Grah	am Bursary [E3030]	The Guelph (
-	larvey Graham (O.A.C. '39). Students should complete the online Financial	annual schola
	sment Form (N.A.F.) application as soon as they receive their	Donor(s): Qualification
Acknowledge	ment Package from Admission Services (this will come automatically after	Qualification
	n for admissions has been submitted by the student). Deadline to submit	
the application		
Donor(s):	Harvey Graham, O.A.C. '39 (s): Student who has demonstrated financial need with preference given	Amount:
guanjicanon	to a student who comes from a working farm. Students graduating	
	from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon	CFRU Volur
	Secondary School will be considered. Each application must be	Apply to the
	accompanied by a reference letter from the Reeve of the student's home	Donor(s):
Amount:	township. 1 award of \$1,700	Qualification
	Student Entrance Bursaries [E3043]	
	the University's strategic direction of internationalism, entrance bursaries	
	each fall to assist some of our international students entering an	Amount:
	e degree program at the University of Guelph. Students who have applied	Class of 1970
to the Univers	ity of Guelph will receive an application form.	Established b
Donor(s):	University of Guelph	of the Univer campus. The
Qualification(	(s): Students on a student visa entering an undergraduate degree program	semester and
Amount:	at the University of Guelph with demonstrated financial need. Several awards of \$1,000, Several awards of \$3,000	Donor(s):
	ir Stewart Bursaries [E3272]	Qualification
	n memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart om the Ontario Agricultural College in 1933 and Mrs. Stewart from	
	stitute in 1932. Applicants for these bursaries should have a good academic	Amount:
	active interest in community affairs. A recommendation from the County	College of Ph
	presentative or the secondary school principal is required and should be	Application n
	nt Financial Services by April 1. Students should complete the online ad Assessment Form (N.A.F.) application as soon as they receive their	Donor(s):
	ment Package from Admission Services (this will come automatically after	Qualification
	for admissions has been submitted by the student).	
Donor(s):	The Estate of Mrs. H. Stewart	
	(s): Students from the Ontario Counties of Lanark and Renfrew, and the	Amount:
Qualification(	Regional Municipality of Ottawa-Carleton, entering the 1st semester	Collogo of Ph
Qualification(		College of Ph
	of a degree program at the University of Guelph.	The winner w
Qualification( Amount:		The winner w in the previou
	of a degree program at the University of Guelph.	The winner w in the previou commemoration
	of a degree program at the University of Guelph.	The winner w in the previou commemorati <i>Donor(s):</i>
	of a degree program at the University of Guelph.	The winner w in the previo commemorat

In-course Scl	nolarships
Association of P	rofessional Engineers Medal [C0019]
Application not a	required.
Donor(s):	Professional Engineers of Ontario
Qualification(s):	Graduate of an accredited engineering program, obtaining the highest
Amount:	average in the practical work and written examinations of the year. 1 Gold medal
Association of P	rofessional Engineers of Ontario Scholarships [I0018]
	ir of the Awards Committee, School of Engineering, by March 31.
	Professional Engineers of Ontario
Donor(s): 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 Men	norial Scholarship [I0280]
-	nclude a supporting letter from a coach or intramural supervisor. Apply
to Student Finan	cial Services by April 1. AMF Canada Ltd.
Donor(s): 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
Canadian Feder	ation of University Women/Guelph Scholarship [I0294]
-	pter of the Canadian Federation of University Women provides this ip. Application not required.
Donor(s):	The Guelph Chapter of the Canadian Federation of University Women
	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
Amount:	cumulative average. Preference will be given to a student who has graduated from a secondary school in Wellington County. 1 award of \$2,000
	r Award [10215]
** •	RU Board of Governors by April 30.
Donor(s): Qualification(s): Amount:	Station Manager, CFRU 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. 2 awards of \$250
	holarship [I0424]
	e Silver Anniversary celebrants to commemorate the 25th anniversary
of the University campus. The app	Class of 1970. This award rotates among all six colleges on the main propriate College Award Committee selects the candidate each Fall candidate is announced each October. Application not required.
Donor(s): Qualification(s):	Class 1970: 25th Reunion Gift Outstanding student in any degree program who has attained at least
Amount:	an 80% average in two consecutive semesters resulting in placement on the Deans' Honours List. 1 award of \$1,400
	cal Engineering Science Academic Scholarship [10073]
Application not i	*
Donor(s): Qualification(s):	<b>College of Physical and Engineering Science</b> 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
Amount:	recently. 2 awards of \$250
	cal Engineering Science Graduation Prize [C0075]
-	
	be selected in May from all students who have completed the program twelve months. Application not required. One award of \$250 and a plaque.
Donor(s):	College of Physical and Engineering Science
	Student graduating with the highest cumulative average from an
Amount:	honours B.Sc. program in a Physical and Engineering Science area. 1 award of \$250, 1 Commemorative plaque

IX. Scholarships and Other Awards, Bachelor of Science in Engineering	201
College of Physical Engineering Science Scholarship [10076]	International Undergraduate Scholarship [I0577]
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 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	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 April 1, 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
Amount: 1 award of \$250 CSCE Environmental and Water Resources Engineering Scholarships [10549]	student.
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 not required.	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
Donor(s): School of Engineering	Jim MacKenzie Scholarship [10602]
Qualification(s): Full-time student registered in either Environmental Engineering or         Water Resources Engineering with the highest cumulative average         who has completed a minimum of 8.5 credits at the beginning of         semester 4.         Amount:       1 award of \$400	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
Deans' Scholarships [I0323]	University of Guelph or the City of Guelph (documented in written report); or 500-word
Offered by the Board of Governors. Recipients will be selected by each of the College Awards Committees. Winners will be notified in the Fall semester. Application not required.         Donor(s):       Board of Governors         Qualification(s):       Students registered in any degree program. The primary academic criteria is placement on the Deans' Honours List for two consecutive	essay on energy conservation. Apply to the Chair, School of Engineering Awards Committee by October 1 with documentation as suggested above. <i>Donor(s):</i> <b>Guelph Hydro</b> <i>Qualification(s):</i> Students registered in the Environmental Engineering program who have completed between 15 and 17 credits and at least 2 co-op work terms.
semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M. program, in the previous Fall/Winter/Summer sequence.	Amount: 1 award of \$1,500
Amount: 150 awards of \$1,000	John Deere Canada Ltd. Environmental Engineering Scholarship [10548]
E.B. MacNaughton Convocation Prize [C0171]	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
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 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	<ul> <li>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.</li> <li>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.     </li> <li>Amount: 2 awards of \$1,000</li> </ul>
Governor General's Medal [C0044]	John Eccles Scholarship [I0093]
Established by the Office of the Governor General of Canada. Application not required. <i>Donor(s):</i> The Chancellery	Nominations, accompanied by appropriate resumes, are to be submitted to Student Financial Services by April 1.
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:       1 Silver medal	<i>Qualification(s):</i> 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
Helen Grace Tucker Design Awards [C0365]	demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and
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 not required.	Amount:         1 award of \$600
Donor(s): Estate of Helen Grace Tucker, O.A.C.	Kenneth W. Hammond Award [I0045]
Donor(3).       Estate of refer fractor, our control 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	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 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
	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 the end of the 12th week of the Winter semester

Winter semester. Donor(s):

Amount:

1 Book prize

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.

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Knut Karl Grimstad Memoria	l Scholarship [I0116]	Priscilla and Stanford Reid Trust Prize [I0597]
Scholarships and on particip	udents majoring in Water Resources Engineering. re based on academic proficiency in semesters 5 and 6, ation in extracurricular activities associated especially sion of engineering.	Established in honour the first chair of the History Department, Stanford Reid, and I wife, Priscilla Reid to acknowledge the best paper written about the history 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
Lambda Foundation Scholarsh	nip in LBGT Studies [10591]	and/or Reformed tradition.
and transgendered (LBGT) peop pertaining to the history, contribu- will be given to an applicant who by a record of volunteer activitie letter of recommendation from a academic pursuits. This scholarsh must have been completed or res Apply to the Dean of Arts by Deco project, curriculum vitae, and a LBGT community and/or faculty <i>Donor(s):</i> Lambda Founda <i>Qualification(s):</i> Students enroll independent re	ation and other donors led in a program with a thesis, a research essay, search project or course work programs pertaining to	Amount:       1 award of \$500         Stephanie Wilken Volunteer Award [I0449]         Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply Student Financial Services with letter indicating the kind and extent of volunteer activit at the Wellness Centre by October 1. Selection committee is the Senate Committee 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 be a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in 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 Commit
defined by the	**	by October 1.
Amount: 1 award of \$1,0 Lange and Prokipcak Chemist		Donor(s):         Ontario Agriculture College Fund           Qualification(s):         Student who has completed 17.25 credits of the Biological Engineeri
Prokipcak, friends and colleague were valued members of the cher	d by Professor Gordon L. Lange, Professor Joe M. es. Professors Gordon L. Lange and Joe M. Prokipcak mistry Faculty who retired in 2001. Their excellence in the university and nationwide, winning them a total of tion not required.	in the B.Sc.(Eng) program. Academic standing and demonstration leadership qualities will be used to select the recipient from eligib candidates. Amount: 1 award of \$600 The Jack and Lillian MacDonald Scholarship [E0379]
Donor(s): Professor Gord colleagues Qualification(s): Student in C.P. CHEM*1040,1	<b>DECOMPARENT OF SET UP: DECOMPARISON OF AN ADDRESS OF ADDRESS OF</b>	Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDona Vice-President, Academic, of the University of Guelph from 1986 to 1995, he established a scholarship that recognizes their commitment to increasing the accessibi of post-secondary education to aboriginal persons. Apply by letter to Student Finance Services by April 1. Donor(s): Jack and Lillian MacDonald
professor of drama, Chair of Vice-President Academic, 1988- by April 5, for visiting during the Centre for International Progra	<b>ident Scholarship [I0446]</b> r, staff and friends to honour Prof. Leonard Conolly, the Department of Drama, 1981-88, and Associate -1992. Apply to the Centre for International Programs e subsequent Fall or Winter semesters. Selection, by the ms, will be based on assessment of (a) a one-page icance of the student visiting Guelph to the program of	Qualification(s): In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and w has received the highest cumulative average in the Native Univers Access Program. If there is no entering student in any one year, th scholarship will be awarded to the in-course student who is a gradu of the GRPI who has the highest cumulative average at the University Amount:         Amount:       1 award of \$900
study at the partner exchange un	niversity (b) two faculty references of one-page each,	Thomas H. Peters Scholarship [I0233]
transcript of program grades to d Donor(s): Students, staff, 1 Qualification(s): Full-time visiti registered at G South (a list of	nce in the course work completed, as documented by a late, submitted by the home university. <b>faculty and friends of Dr. Leonard Connolly</b> ng exchange undergraduate or graduate student, uelph for at least one semester, from any country in the eligible countries and exchange partner universities is c Centre for International Programs). 2000	Application not required.Donor(s):Friends and associates of Thomas H. PetersQualification(s):Student in any academic program of the University who has complet courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with 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
O.A.C. '55 Scholarships [10064		Toronto District Beekeeper's Association Scholarship [I0285]
Donor(s): O.A.C. '55 Qualification(s): Students who a enrolled in the Recipients will through acader activities and c for fellow stude	'55. Apply to Student Financial Services by April 1. re registered in any O.A.C. degree program or students B.ENG. program and have completed semester 4. have made an outstanding contribution to College life nic proficiency and participation in extracurricular an be considered to have done the most for the College, ents and in their personal development. Recipients must nimum cumulative average.	<ul> <li>A scholarship is offered by the Toronto District Beekeepers Association in memory the late Hugh McLeod, past chair of the Association. Application not required.</li> <li>Donor(s): Mr. Jack Robinson</li> <li>Qualification(s): The recipient will have good academic standing, have participated extracurricular activities, and demonstrated a keen interest in beekeeping.</li> <li>Amount: 1 award of \$500</li> </ul>

IX. Scholarships and Other Awards, Bachelor of Science in Engineering	203
United Steelworkers Local 4120 Scholarship [I0293]	City of Guelph 175th Anniversary Scholarship [10515]
<ul> <li>Apply to Student Financial Services, by January 31.</li> <li>Donor(s): United Steelworkers LU4120</li> <li>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. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class</li> </ul>	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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7.Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This
standing in his or her previous full-time semester, provided that a minimum of 70% standing is obtained.         Amount:       1 award of \$1,000         Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]         Application will be made by nominations signed by 4 currently registered students forwarded to Student Financial Services by April 1. Presentations are made in the Fall	award may be held only once.         Donor(s):       The Guelph Community Foundation         Qualification(s):       Students registered in any degree program with more than 5.0 credits and less than 10.5 credits of full-time study, a minimum cumulative 70% average, demonstrated leadership 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.
semester. Donor(s): Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven	Amount: 1 award of \$2,000
& familyQualification(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. Selection will be made on the basis of participation in university activities and in the student's home 	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.
W.C. Winegard Medal [C0311]	Awarded in the Winter semester. ACCESS AWARD.
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 not required. Donor(s): <b>The Board of Governors' of the University</b> Qualification(s): Graduating student who excels both academically and in extracurricular activities.	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
Amount: 1 Gold medal	Eleanor Morgan & Bill Archibald Scholarships [14540]
W.N. Vaughan Medal [C0299]	The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's
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 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 Medal	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. Awarded in the Winter semester. 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
In-course Scholarships with Financial Need	General Statements on Awards).
3M Canada Scholarships [10564]	Amount: 1 award of \$1,000
<ul> <li>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. Awarded in the Winter semester.</li> <li>Donor(s): 3M Canada Company</li> <li>Qualification(s): Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</li> <li>Amount: 2 awards of \$1,000</li> <li>C.P.E.S. Dean's Scholarship - ACCESS [I4527]</li> <li>Established with the assistance of the Ontario government's OSOTF program. Apply with a completed Einancial Need Assessment Form (N.A.F.) to Student Einancial Services</li> </ul>	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 April 1 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
with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F	activities.
has been submitted by the deadline date. Awarded in the Winter semester. This award	Amount: 1 award of \$2,000
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	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. Awarded in the Winter semester. 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)
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George A. Gray O.A.C. '51 Varsity Scholarships [I0487]	William & Nona Heaslip Scholarship [I0589]
Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Apply to Student Financial Services with a letter describing on- and off-campus extra-curricular activities and a completed Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial need. Preference will be given to members of the varsity football team. Examples of leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation on university committees, such as in residences, on Senate or in Colleges, and similar off-campus activities. Students may receive the award up to four times. Awarded in the winter semester.	Students must apply to Student Financial Services by submitting a Financial Nee         Assessment Form (N.A.F.) by October 7. Recipients of this award can have this awar         renewed for up to 3 years provided they continue to demonstrate financial need an         maintain a minimum 70% cumulative average of full-time study. Students will b         considered for this award automatically once a N.A.F has been submitted by the deadlin         date.         Donor(s):       The William and Nona Heaslip Foundation         Qualification(s):       Students that have completed 4.0 credits but no more than 6.0 credit         in any degree program; are a Canadian citizen/permanent resident;         have a minimum 70% cumulative average; and demonstrate financia         need.         Amount:       2 awards of \$15,000
<i>Donor(s):</i> Mrs. George A. Gray <i>Qualification(s):</i> Students who are members of varsity teams and in the second, third,	In-course Awards with Financial Need
fourth or fifth year of full-time study with a minimum 70% average	Bette Stephenson Accessibility Bursary [I3054]
<i>in all courses completed in the previous year of study and have demonstrated leadership.</i> <i>Amount:</i> 2 awards of \$1,250	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 hursaries will be used to affect the state of the state
Graham Family Incentive Scholarship [14506]	financial need and who have a learning disability. These bursaries will be used to offse the costs of a required assessment, or the purchase of a computer that is required to
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. Awarded in the Winter semester. ACCESS AWARD	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):       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	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
receipt of an OSOTF award (see General Statements on Awards).           Amount:         1 award of \$5,000	Brinson Partners Inc. Bursaries [I3526] Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program
Guelph Varsity Athletic Accessibility Scholarship [I0518]         Apply to Student Financial Services with a letter describing on and off-campus extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and indicate which varsity team you play on. Selection will be based upon equally weighted consideration of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.         Donor(s):       Alumni and friends of the University of Guelph Qualification(s): Students with at least 5.0 credits and less than 20.5 credits, who are	<ul> <li>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 Awarded in the Winter semester. ACCESS AWARD.</li> <li><i>Donor(s):</i> Brinson Partners Inc.</li> <li><i>Qualification(s):</i> Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</li> <li><i>Amount:</i> 2 awards of \$1,500</li> </ul>
members of a varsity athletic team and who have demonstrated financial	Burnbrae Farms Bursaries [13525]
need. Students must have maintained at least a 70% cumulative average in all courses completed in the previous year of study (minimum 3.0 credits).         Amount:       2 awards of \$1,250	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.) to Student Financial Services by October 7. Students will be considered for this award automatically
Tara Lynn Giuliani Memorial Award [I0375]	once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester ACCESS AWARD.
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 to the Centre for Students with Disabilities by November 25. <i>Donor(s):</i> <b>The Giuliani Family</b> <i>Qualification(s):</i> Most academically promising applicant with a demonstrated disability and having financial need. <i>Amount:</i> 1 award of \$500	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
University of Guelph Retiree Association Degree Scholarship [10569]	C.P.E.S Engineering ACCESS Bursary [I3527]
This bursary is available to students who are related to a member of the U.G.R.A. as child, grand-child, or great grand-child. Selection will be based on the greatest demonstration of financial need. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and relationship to the U.G.R.A. member.         Donor(s):       University of Guelph Retirees Association (U.G.R.A.)         Qualification(s):       Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need.         Amount:       1 award of \$1,000	<ul> <li>Established with the aid of the Ontario government's OSOTF program. Apply to Studen 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.</li> <li>Donor(s): Friends and Alumni of C.P.E.S</li> <li>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).</li> <li>Amount: 1 award of \$750</li> </ul>

## 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. Awarded in the Winter semester. 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

## 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. Awarded in the Winter semester.

## Donor(s): Credit Valley Conservation Authority Foundation

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Qualification(s):	Full-time student registered in B.A. Geography, B.Sc. Geographic
	Information Systems and Environmental Analysis, B.Sc. Engineering
	(Water Resource Engineering), B.Sc.(Agr.) Agroecosystem
	Management or B.Sc.(Env.) Geography majors with demonstrated
	financial need. Preference will be given to a student who resides in a
	member municipality of the Credit Valley Authority Foundation.
Amount:	1 award of \$500

## Elizabeth Burton Bursaries [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. Awarded in the Winter semester. ACCESS AWARD.

#### Donor(s): Mrs. Elizabeth Burton

Qualification	<i>i</i> ( <i>s</i> ): 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. Awarded 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. 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): 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 Bursary [I3061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.

## Donor(s): Student Health and Dental Plan Reserve

Qualification(s):	alification(s): Students must be registered on the University of Guelph Student Health	
Plan. The student must require treatment for a condition not curren		
	or completely covered by the Student Health Plan.	
Amount:	Several varies to a maximum \$1,000	

## Guelph Student Assistance ACCESS Bursaries [13556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Typically, awarded in the Winter semester. ACCESS AWARD.

Donor(s):	Central Student Association	
Qualification(s):	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).	
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. Typically, awarded in the Winter semester.

#### 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 [13063]

Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter.

Donor(s):	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. Awarded in the Winter semester. ACCESS AWARD

## Donor(s): The Estate of Howard and Myrtle Rogers

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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

<i>Qualification(s):</i> 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 Dursarias [12000]	Dragon I td. A gass Durson in Fusingering [12520]
International Student Bursaries [I3009]	Procor Ltd. Access Bursary in Engineering [13528]
<ul> <li>Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor.</li> <li><i>Donor(s):</i> Mrs. Norma L. Valeriote</li> <li><i>Qualification(s):</i> Students who are citizens of Third World countries, as defined by the</li> </ul>	Established with the aid of the Ontario government's OSOTF program. Apply to Studen Financial Services with a completed Needs Assessment Form by October 7. Student will be considered for this award automatically once a N.A.F has been submitted by th deadline date. ACCESS AWARD.
United Nations, who are registered in a degree or diploma program and who demonstrate financial need.           Amount:         Several of varying amounts	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 an
Irvine and Grace Black Memorial Bursary [I3051]	demonstrated financial need. Additionally, students must meet the
Established in memory of Irvine and Grace Black, by friends and family to recognize	government-mandated terms for receipt of an OSOTF award (see
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	General Statements on Awards). Amount: 1 award of \$900
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	<b>Robert Auger Humanitarian Bursary [I3058]</b> This award, of up to \$500, has been established through the generosity of staff in th
outlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded in the Winter semester.	Office of Registrarial Services, family and friends of Robert Auger, a former Associat Registrar at the University of Guelph. It is intended as an emergency fund to assis
Donor(s):         Family and friends of Irvine and Grace B.L.A.ck           Qualification(s):         Full-time undergraduate students registered in any degree program	students who unexpectedly find themselves in difficult financial circumstances, to provid grocery, and textbook vouchers.
with demonstrated financial need. Preference will be given to applicants	Donor(s): Office of Registrarial Services
who are, or have been, active in the 4-H Club and/or a Women's Institute.	<i>Qualification(s):</i> Students who require assistance through this fund should apply in confidence to the Assistant Registrar, Financial Aid, Student Financia
Amount: 1 award of \$500	Services.
Lindsay W. Christie Bursary [I3004]	Amount: Several awards of \$500
Made available by the family of Lindsay W. Christie. Apply by confidential letter to	Ron Scriver Memorial Bursary [13547]
<ul> <li>Chair, Awards Committee, School of Engineering by December 1.</li> <li>Donor(s): Family of Lindsay W. Christie (Fastforms Inc.)</li> <li>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.</li> </ul>	Established in memory of Mr. Ron Scriver (1946 - 32005) C.P.E.S. B.A. '76, to honou his outstanding 32-year career with the Ontario Universities' Application Centre and hi 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 Octobe 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.
Amount: Several awards totalling \$1,000	Donor(s):         Family and Friends of Ron Scriver           Qualification(s):         Students registered in any program offered by C.P.E.S. with
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	demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see Genera Statements on Awards). Amount: 1 award of \$1,500
will be considered for this award automatically once a N.A.F has been submitted by the	Scotiabank Bursaries [I3532]
deadline date. Awarded in the Winter semester. 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	Established by Scotiabank, with the assistance of the Ontario government's OSOTI 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. Awarded in the Winter semester. ACCESS AWARD.
O.A.C. '55 Access Bursaries [I3517]	Donor(s): Scotiabank
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	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
automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	University of Guelph Access Bursaries [I3522]
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:       Several awards of \$500	Provided by alumni and friends of the University, with the assistance of the Ontari government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph diploma 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 Financia Services by October 7. Students will be considered for this award automatically once N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCES: AWARD. Variable amounts from \$500 to \$2,000
Ontario Co-operatives R.P. Forshaw Bursary [I3013]	Donor(s):         Alumni and Friend of the University of Guelph           Qualification(s):         Full-time students with demonstrated financial need. Additionally,
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. Awarded in the Winter semester.	Qualification(s): Full-time students with demonstrated mathematical need. Additionary, 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
Donor(s):       The Co-operatives, Credit Unions, friends and associates of Prof. R.P.         Forshaw       Gualification(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	

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#### IX. Scholarships and Other Awards, Bachelor of Science in Engineering 207University of Guelph Alumni Association Access Bursaries [I3523] University Student Assistance Program [I3057] Established by the University of Guelph Alumni Association, with the assistance of the These bursaries have been established and approved by the University of Guelph to Ontario government's OSOTF program, to support students who wish to study full-time assist undergraduate and University of Guelph campus diploma students in financial but who need financial support to do so. Apply with a completed Financial Need need. Apply to Student Financial Services with a completed Financial Need Assessment Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be Form (N.A.F.) by October 7. Typically, awarded in the Winter semester. considered for this award automatically once a N.A.F has been submitted by the deadline University of Guelph Donor(s): date. Awarded in the Winter semester. ACCESS AWARD. *Qualification(s):* Full-time undergraduate students registered in any degree program University of Guelph Alumni Association Donor(s): with demonstrated financial need. Preference will be given to students Qualification(s): Full-time in-course students with demonstrated financial need. who are not eligible for provincial and/or federal assistance programs Additionally, students must meet the government-mandated terms for such as Ontario Student Assistance Program (OSAP) and/or Canada receipt of an OSOTF award (see General Statements on Awards). Student Loan Program (CSLP). Several awards of various amounts to a maximum of \$1,000 Amount: 2 awards of \$1,000 Amount: University of Guelph Child Care Bursaries [I3053] **In-course Travel Grants** In order to provide accessible child care to students with (a) child(ren), the University Aeroplan International Travel Grant [T0604] of Guelph offers bursaries to students who have demonstrated financial need. Apply to Established to provide students with an airline ticket to international destinations served Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need by October 7. Awarded in the Winter semester. Assessment Form accompanied by the standard Travel Grant Application by June 1 for Donor(s): University of Guelph Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial Financial Services. Award is subject to the availability of Aeroplan miles and may not need, to offset the costs of child care. To be eligible, undergraduate be available every year. students must be full-time (as defined by OSAP regulations) and Donor(s): Aeroplan Canadian citizens or permanent residents with demonstrated financial Qualification(s): Full-time students with a minimum cumulative average of 70%, need. completion of a minimum of 5.0 credits and confirmed participation Amount: Several awards of up to \$2,000 in University of Guelph travel activities related to their academic University of Guelph International Bursary [I3048] program. Preference will be given to students participating in the The University of Guelph provides support to International undergraduate students that semester abroad or academic exchanges. are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Amount: 1 plane ticket per each semster Students should apply to Benny Quay, in the Centre of International Programs office by Arthur D. Latornell Undergraduate Travel Grants [T0058] completing an International Student Financial Need Assessment Form (N.A.F.). These An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who had bursaries are awarded on an on-going basis. a life-long professional career in resource management and conservation and a special University of Guelph Donor(s): interest in helping young people. The funds are given to provide twenty-five travel grants. Qualification(s): Any International student registered in a degree program at the These travel grants are offered to assist students in attending conferences, courses, co-op University of Guelph with a minimum registration of 1.50 course student exchanges or study abroad programs in these areas. Students may receive this credits. grant only once. Apply to Student Financial Services. Deadline dates are June 1 for Fall Amount: Several varies travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037] estimated travel costs to a maximum of \$1,000. The Estate of Arthur D. Latornell The University of Guelph offers in-course bursaries to students who have demonstrated Donor(s): financial need. Apply to Student Financial Services, with a completed Financial Need Qualification(s): Students in semester 3 and above. Students must have at least a 70% average and a primary area of interest related to natural resources Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. management, environmental science, conservation, soil science and/or Donor(s): University of Guelph rural development. Students will be asked to submit a one-page review Qualification(s): Ontario students registered for full-time studies (as defined by OSAP) of their travel experience, including the role the travel grant played, in a degree program with demonstrated financial need and a minimum to the University after completion of the travel. of 2.0 course credits completed. Amount: several up to a maximum of \$1000 Several awardsranging in value from \$100 to \$3,000 Amount: Canadian Friends of the Hebrew University in Jerusalem Travel Bursary [T4532] University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047] The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the The University of Guelph offers in-course bursaries to students who have demonstrated Ontario government's OSOTF program, have established these travel scholarships to financial need. Apply to Student Financial Services, with a completed Financial Need assist students study at the Hebrew University of Jerusalem. Apply by letter with a Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by University of Guelph Donor(s): May 1. ACCESS AWARD. Up to three awards totalling \$7500. Qualification(s): Undergraduate students registered for full-time studies (as defined by Canadian Friends of the Hebrew University in Jerusalem Donor(s). OSAP) in a degree program with demonstrated financial need and a *Qualification(s):* Undergraduate degree students in either the second or third year of minimum of 2.0 course credits completed. study, Masters students in the first year of study, and Doctoral students Several awards to a maximum of \$800 Amount: in the first three years of study are eligible to be considered. Applicants University Police Bursaries [I3019] must provide documentation that they have approval from the Hebrew The University Police have made available a number of bursaries. Apply to Student University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph 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 approvals for a "Letter of Permission" prior to applying. Additionally, been submitted by the deadline date. students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). The University Police Donor(s): 3 Awards with varying amounts Amount: Qualification(s): Full-time undergraduate and graduate students who have financial need. Amount: Several of various amounts

Geography Field	l Trip Travel Grant [T0584]
of the department students will subr and expectations	retirement of Dr. G.T. Bloomfield, former faculty member and Chair of Geography from 1977 to 1982. Upon registration for GEOG *4690, nit to the chair of the department a one-page essay outlining the benefits of the field course to their career as a geographer and one letter of geography professor.
Donor(s): Qualification(s): Amount:	Alumni, Colleagues, and Friends of Dr. G.T. Bloomfield Full-time students enrolled in the major honours program (B.A.H; B.Sc.(ESS); B.Sc.(Env)) in the Department of Geography who have completed 12.5 course credits and have an overall average of at least 70% at the time of registration for GEOG *4690 1 award of \$450
Richard and Soj	ohia Hungerford Undergraduate Travel Scholarships [T4508]
government's OS scholarships to u study in developi Financial Service costs and a comp prior to departure	ichard and Sophia Hungerford, with the assistance of the Ontario SOTF program, has established an endowment to provide travel indergraduate students with demonstrated financial need who wish to ing countries, or attend conferences on development. Apply to Student es with a description of the intended travel, an estimate of the travel bleted Financial Need Assessment Form (N.A.F.) at least one month be Deadline dates are June 1 for Fall travel, October 1 for Winter travel, or Summer travel. ACCESS AWARD.
Donor(s): Qualification(s): Amount:	<b>The Estate of Richard Hungerford</b> 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). Several awards of varying amounts to a maximum of \$1,000
University of Gu	elph Travel Scholarships [T0421]
an endowment to who wish to study be given to study this travel grant o of the intended to Assessment Form	f Guelph, through the sale of Guelph London House, has established o provide travel scholarships to undergraduate and graduate students y outside of Canada but need financial support to do so. Preference will nts participating in the London Semester. Students may only receive nce per degree. Apply to Student Financial Services with a description ravel, an estimate of the travel costs and a completed Financial Need n (N.A.F.) at least one month prior to departure. Deadline dates are June October 1 for Winter travel, and February 1 for Summer travel.
Donor(s): Qualification(s):	<b>University of Guelph</b> Registered undergraduate and graduate students that have completed 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study are eligible to apply. The value of the award will depend on the assessed financial need. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Several up to \$1,500

# **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

#### 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 not required. Two awards of \$1,250 paid in two installments of \$625.

Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College. Amount: 2 awards of \$1.250

#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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:	4 awards of \$7,000

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

Donor(s): Qualification(s). Amount:	Board of Governors Outstanding students entering semester 1 25 awards of \$8,000
December 6th N	Aemorial Scholarship [E0005]
fourteen women	, established by the Faculty Association, is awarded in memory of the murdered in December 1989 at Ecole Polytechnique and is intended to a profession that is largely comprised of men. Application 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. 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. 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.

#### Mrs. Jean K. Small Donor(s): Ouglification(a). Full time visitin

	Qualification(s):	Fun-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
1	<i>0</i>	

#### 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 to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main campus.

#### Friends and Associates Donor(s):

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. Preference will be given to Graduates of the
	Diploma in Agriculture program.
Amount:	1 award of \$1,200

#### 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. Application not required.

#### Donor(s). Earl B. MacNaughton Qualification(s): Students with high academic standing, entering an honours program

Elite Swine l	Entrance Scholarship [E0532]
Amount:	given to academic achievement in high school science and mathematics. 4 awards of \$1,000
	in the College of Physical and Engineering Science. Emphasis will be

This award is provided by Elite Swine Inc. to assist students entering an O.A.C. undergraduate Program. High schools will forward nominations to the O.A.C. Awards Committee by September 15.

Elite Swine Inc Donor(s):

Amount:

Qualification(s):	High school graduates who have applied to O.A.C. undergraduate
	programs, based on admission average, contributions to their schools
	and communities and on their potential to become leaders in society.
	Preference will be given to students with a strong interest in animal
	science, particularly swine production.
Amount:	5 awards of \$1,000

#### Gordon McNally Memorial Award [E0203]

1 award of \$1,400

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. Applications by students or recommendations by high school teachers should be made by letter to the Associate Registrar, Student Financial Services by April 1.

Donor(s):	Jean and Peter Gower	
Qualification(s):	(s): Students entering any undergraduate program in the College of	
	Biological Sciences. The recipient will be selected on the basis of academic performance and demonstration of outstanding contributions	
	to extracurricular activities and/or community services.	
Amount:	1 award of \$500	
Gordon W. Inn	es Scholarship [E0140]	
Gordon W. Inne Application not		

#### P.A.J. Clarke Family Scholarship [E0381]

Paul and Aileen C	larke and their family established the endowment for this entrance
scholarship in hon	our of Paul's father, the late Jack Clarke, a Blenheim area farmer.
Apply by letter out	lining extracurricular and/or community activities, ensuring that you
have completed a H	Financial Need Assessment Form (N.A.F.) for Entrance Awards, and
submit to Student	Financial Services by April 1. Students who have applied to the
University for adr	nission will receive information on completing a Financial Need
Assessment Form (	N.A.F.) for Entrance Awards from the University early in the calendar
year. This award is	s not tenable with the President's or Lincoln Alexander Chancellor's
Scholarship. Annua	al payments are contingent upon full-time enrolment and maintaining
a minimum 70% a	average on the previous Fall and Winter semesters. One award of
\$12,000 (\$3,000 ar	nnually for 4 years).
Donor(s): P	aul and Aileen Clarke
Qualification(s): S	tudents with a minimum 80% average with a record of leadership
a	nd community participation are eligible. Preference will be given to

candidates from Blenheim district or Kent County and who were raised,

or have worked, on a farm. Students may be contacted to provide

	special need circumstances if the	here is a short list o	of equal candidates.
Amount:	1 award of \$12,000		

#### President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

r a summer	Donor(s):	A number of President's Scholarships have been named in honour of the
pend) were		following people and/or donors:
Guelph and		Dick Brown
intended to		Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners
wards at the		whose leadership qualities best reflect those demonstrated by Dick Brown in
ations must		University Athletics from 1968 to 1988.
who cannot		Cecil H. Franklin and Ingrid Franklin
art process:		In honour of Cecil Franklin, former Chair of the Board of Governors and
on. This is		Honorary Fellow of the University, the University of Guelph has named one of
y of Guelph		these twelve prestigious entrance awards to recognize his financial contributions
rectly to the		and volunteer support to the President's Entrance Scholarship program.
J.		Charles S. Humphrey
		In memory of Charles S. Humphrey, a former President of Hart Chemical
1		Company Canada Ltd. and long-time friend, the University has named one of
nal, persons		these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President's Entrance Scholarship program.
have made		Jack R. Longstaffe
s and		0
nancial need		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
alambin ia		awards in honour of Burton C. Matthews to recognize his insight and leadership
nolarship is ased on the		in establishing the President's Entrance Scholarship program.
ased on the		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.
on average.		Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board
Wellington		of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter
dents from		Cable Ltd. and a member of the University of Guelph Heritage Board (1996).
from one		Rol-land Farms Limited
m the other		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)	Entering students of academic distinction who have made significant
	Qualification(s).	contributions to their schools and communities and demonstrate the
		potential to become leaders in society.
	Amount:	12 awards of \$26,000
	Amount:	12 awarus 01 920,000

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

#### University of Guelph Donor(s):

Application not required.

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. Application not required.

Donor(s): The J.D. MacLachlan Trust Qualification(s): Student entering the University with the highest admission average. 1 award of \$1,500 Amount:

#### 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.) to Student Financial Services by October 7.

Qualification(s): Kemptville College graduate with high academic standing (a minimum 75% cumulative average) who registers in the O.A.C. degree program in Agriculture or in Agriculture and Business. Financial need may also be considered. 1 award of \$2,500 Amount

# Lincoln Alexander Chancellor's Scholarship [E0493]

These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for research assistanship after the first year of study (approximately \$6,000 stip established in honour Lincoln Alexander, Chancellor of the University of C former Lieutenant Governor of Ontario, on his 80th birthday. They are enhance student diversity and are amongst the most prestigious entrance aw University of Guelph. Students cannot apply directly for this award. Nomina be made by each high school. Each high school can nominate one student w be the President's Scholarship nominee. The nomination process is a two-pa (a) the school's nomination and (b) the student's supporting documentation outlined in the material sent to each high school in Canada from the University each fall. High schools must submit the complete application (both parts) dir Associate Registrar, Student Financial Services by Feb. 1.

Donor(s):	Many Donors
Qualification(s):	Entering students of academic distinction who are Aboriginal, person
	with a disability or members of a racial minority, and who have mad
	significant contributions to their schools and communities and
	demonstrated the potential to become leaders in society. Financial nee
	may be taken into consideration.
Amount:	2 awards of \$26,000

### McArthur-Humphries Scholarship [E0183]

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This sch awarded to students entering any undergraduate degree program and are ba highest admission average. Application not required.

#### Wilhelmina McArthur-Humphries Trust Fund Donor(s):

Qualification(s): Students entering semester 1 with a minimum 75% admissi Preference will be given to those students from Lanark and Counties. An equal number of awards are available to stud each county. In the case of insufficient eligible applicants county, the awards will be given to eligible applicants from county.

Quinn Memoria	l Scholarship [E0578]
international full based on academ	nemory of Ronald J. Quinn (O.A.C. '35) to an entering O.A.C. -time or exchange undergraduate or graduate student. Selection will be ic performance, letters of reference and an assessment of the admission age. Application not required.
Donor(s):	Mrs. Helen Quinn (O.A.C. '35)
Qualification(s): Amount:	Entering semester one of an O.A.C. program to an undergraduate or graduate international full-time student or to an international exchange student with a preference to those students from developing nations. 1 award of \$1,500
The Jack and Li	illian MacDonald Scholarship [E0379]
Vice-President, established a scho	and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Academic, of the University of Guelph from 1986 to 1995, have olarship that recognizes their commitment to increasing the accessibility y education to aboriginal persons. Apply by letter to Student Financial 11.
Donor(s):	Jack and Lillian MacDonald
( )	In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University Access 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 GRPI who has the highest cumulative average at the University.

This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall\_current\_merit.shtml. Application not required.

#### Donor(s): University of Guelph

Qualification(s).	Students entering their first year of post-secondary studies for the first
	time and have a minimum 85% admission average.
Amount:	Several awards ranging in value from \$2,000 to \$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. Application not required.

#### Donor(s): University of Guelph Faculty Association

Qualification(.	s): Student entering an undergraduate degree program at the University
	of Guelph with the highest admission average who has been a resident
	in the County of Wellington during the previous twelve months.
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 not required.

#### Donor(s). Prof. Rosalina Morris

<i>Qualification(s):</i>	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

#### **Entrance Scholarships with Financial Need**

#### Bill Klopp Memorial Award [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 May 1. 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).

#### Donor(s): **Ross and Mary Lou Klopp** Qualification(s): Presented to a student entering semester 1 from the cities of Kitchener or Waterloo who has demonstrated involvement in extracurricular activities who has shown satisfactory academic performance and who has financial need. Amount: 1 award of \$500 Devine Family Scholarship [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. 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

ualification(s): Students entering any degree program with a minimum 80% admission
average, who are Aboriginal, person with a disability, or a member of
a racial minority with demonstrated financial need. 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).
<i>mount:</i> 1 award of \$25,000 (payable over 4 years of study)

#### 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 (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 May 1. ACCESS AWARD.

#### The Blount Foundation, Inc. Donor(s):

Qualification(s): Students from the Province of Ontario, with demonstrated financial need, 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. 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). 1 award of \$9,600, payable in 8 payments of \$1,200 Amount:

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

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.

#### University of Guelph Donor(s):

Qualification(s): Students entering a full-time undergraduate program on the basis of financial need and academic merit. Amount: 500 awards of \$2,000

## 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 (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 May 1. ACCESS AWARD

#### Donor(s): **Rol-Land Farms**

Qualification(s): Outstanding entering undergraduate degree students 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). 13 awards of \$2,000 Amount:

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### University of Guelph Donor(s):

( - ) -	• •
Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

#### **Entrance Awards with Financial Need**

#### 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 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 May 1. ACCESS AWARD. One award of \$6,000 (\$1,500 annually for 4 years).

Donor(s):	W. Roy Hindle and family
Qualification(s):	An entering O.A.C. degree student who has 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

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

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

U	gree program at the University of Guelph. Students who have applied of Guelph will receive an application form.
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 of \$1,000, Several awards of \$3,000
Amouni:	Several awards of \$1,000, Several awards of \$5,000
	Stewart Bursaries [E3272]

agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

#### Donor(s). The Estate of Mrs. H. Stewart

International Student Entrance Bursaries [E3043]

201101 (3).	
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

#### **In-course Scholarships**

Amount:

1 award of \$1.500

#### Bill Taylor Memorial Scholarship [10280]

Din Tuylor Men	
11	nclude a supporting letter from a coach or intramural supervisor. Apply cial Services by April 1.
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 Scho	larship [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 April

Donor(s): Qualification(s):	<b>D.J. Blackburn</b> 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
Bruce W. Minsh	nall Memorial Scholarship [10450]
	W.H. Minshall (O.A.C.'33) in memory of his son Bruce, a graduate of Apply to Student Financial Services by April 1.
Donor(s): Qualification(s): Amount:	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall 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. 1 award of \$1,000
Canadian Agri-	Marketing Association (Ontario) Scholarship [10541]
to the O.A.C. aw	Canadian Association of Agri-Marketing Association (Ontario). Apply vards Committee by April 1 with a summary of participation in the Ag v and in agri-marketing initiatives as well as a letter of recommendation ember.
Donor(s): Qualification(s):	Canadian Agri-Marketing Association (Ontario) 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.

College of Physical Engineering Science Academic Scholarship [I0073]

**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

Donor(s):

Amount:

Application not required.

IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences	21
Certified General Accountants Award for Excellence Prize [C0025]	College of Physical Engineering Science Graduation Prize [C0075]
Awarded to the graduating student with the highest average in the three accounting courses listed. Application not required.	The winner will be selected in May from all students who have completed the program in the previous twelve months. Application not required. One award of \$250 and a
Donor(s): Certified General Accountants Association of Ontario	commemorative plaque.
Qualification(s): Graduating student who has a minimum cumulative average of 77%	Donor(s): College of Physical and Engineering Science
in Financial Accounting BUS*2220; Management Accounting BUS*2230; and Intermediate Accounting BUS*3330.	<i>Qualification(s):</i> Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.
Amount: 1 award of \$150, plus 1 year tuition and course fee towards the CGA	Amount: 1 award of \$250, 1 Commemorative plaque
program. (approximate value of \$2,000)	College of Physical Engineering Science Scholarship [10076]
CFRU Volunteer Award [I0215]	Awarded in the Fall semester to a student who has completed semester 6 in the previou
Apply to the CFRU Board of Governors by April 30.	Fall, Winter or Spring semesters and who is enrolled in Year 4 of a College of Physica
Donor(s): Station Manager, CFRU	and Engineering Science program. Application not required.
Qualification(s): Applicants must be registered or graduating from the University of	Donor(s): College of Physical and Engineering Science
Guelph and have volunteered at CFRU for at least one year. The	Qualification(s): Recipients will be selected on the basis of a high average (minimum
recipients will be selected on the basis of academic performance and	80% average required) in courses normally taken in Year 3.
volunteer work at CFRU. Amount: 2 awards of \$250	Amount: 1 award of \$250
Charles McGowan Memorial Prize [C0187]	Collins Barrow Award [10040]
Established in memory of the late Lieutenant Charles McGowan. Application not required.	Offered by Collins Barrow, a national firm of Chartered Accountants. Awarded in the Winter semester. Application not required.
<i>Donor(s):</i> Charles McGowan Memorial Fund	Donor(s):     Collins Barrow Chartered Accountants
<i>Qualification(s):</i> Outstanding graduating student in an O.A.C. degree program.	<i>Qualification(s):</i> Student with the highest grade in course BUS*3330, Intermediate
Amount: 1 award of \$300	Accounting, in the Fall semester. In the event of a tie, the scholarshi
Class of '51 O.A.C. Leadership Awards [C0063]	will be given to the student with the highest cumulative average in
Established by Year '51 O.A.C., on the occasion of its 45th anniversary. At the discretion	their program.
of the O.A.C. Awards Committee students may be selected before graduation. Application	Amount: 1 award of \$500
not required.	David F. Boyes Apiculture Scholarship [10031]
Donor(s): Year '51 O.A.C.	Established in memory of David Boyes a technician in the Apiculture Field Laboratory
Qualification(s): Students graduating from the degree program in a major in an O.A.C.	Application not required.
department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University	<i>Donor(s):</i> <b>The Apiculture Club</b> <i>Qualification(s):</i> Student registered in the Fall semester who achieves high academic
extracurricular activities.	standing in Introductory Apiculture (ENVB*2210) in the previous
Amount: 5 awards of \$2,000	year, demonstrates an interest in apiculture and who has participated
Class of '67 O.A.C. Centennial Scholarship [10067]	in extracurricular activities.
Apply to Student Financial Services by April 1.	Amount: 1 award of \$150
Donor(s): Class of O.A.C. '67	Deans' Scholarships [10323]
<i>Qualification(s):</i> Student majoring in an O.A.C. department who through activity in all	Offered by the Board of Governors. Recipients will be selected by each of the College
branches of college life as well as scholastic achievement has made	Awards Committees. Winners will be notified in the Fall semester. Application no
an outstanding contribution to the University.	required. Donor(s): Board of Governors
Amount: 1 award of \$1,000	Donor(s):         Board of Governors           Qualification(s):         Students registered in any degree program. The primary academic
Class of 1970 Scholarship [I0424]	criteria is placement on the Deans' Honours List for two consecutive
Established by the Silver Anniversary celebrants to commemorate the 25th anniversary	semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.
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	program, in the previous Fall/Winter/Summer sequence.
semester and the candidate is announced each October. Application not required.	Amount: 150 awards of \$1,000
Donor(s): Class 1970: 25th Reunion Gift	Dr. Michael R. Moss Scholarship [10553]
Qualification(s): Outstanding student in any degree program who has attained at least	Established by the friends and colleagues of Dr. Michael R. Moss, the founding Associat
an 80% average in two consecutive semesters resulting in placement	Dean of the Faculty of Environmental Sciences. This scholarship is awarded to the student that has demonstrated the most significant increase in his/her cumulative average
on the Deans' Honours List.	from 7.0 course credits to 14.0 course credits. Application not required.
Amount: 1 award of \$1,400	Donor(s):     Friends and Colleagues of Dr. Michael Moss
Clayton and Dorothy Switzer Scholarships [10276]	<i>Qualification(s):</i> Full-time students enrolled in the BSc(Env.) program with a minimur
Apply by April 1 to Student Financial Services.	14.0 course credits.
Donor(s): Clayton and Dorothy Switzer	Amount: 1 award of \$1,000
<i>Qualification(s):</i> One to a student who has completed semester 2 of the Diploma in Agriculture program and one to a student who has completed semester	E.B. MacNaughton Convocation Prize [C0171]
4 of a degree program in O.A.C. Recipients will have a minimum of	Established by the College of Physical and Engineering Science to honour Earl E
70% standing and have demonstrated outstanding leadership ability	MacNaughton, former head of the Department of Physics and founding Dean of th
in O.A.C. student organizations, class executives and College Royal.	College of Physical Science. Application not required. One award of a plaque-mounte
Amount: 1 award of \$2,000	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

recently.

2 awards of \$250

	morial Scholarship [I0047]	Highdale Farms Scholarship [10348]
cv/resume, and a c to social change l Graduate program Donor(s): Qualification(s):	ctor for International Development Studies with an unofficial summary, cover letter outlining how past experiences demonstrate a commitment by January 30th. Preference will be given to a student registered in a n at the University of Guelph. <b>The Friends of Ellen Nilsen</b> Registered academically outstanding female students from developing countries who have demonstrated a commitment to social change.	Apply to Student Financial Services, by April 1.         Donor(s):       Arthur Spoerri         Qualification(s):       Two awards are available for students in semesters 3 through 6 w at least a 75% cumulative average and whose primary area of stud related to the natural sciences. The first award is based on academic proficiency: The second award is based on academic proficiency ademonstrated leadership with preference given to students from
	1 award of \$1,500	Ottawa-Carleton, Dundas-Glengarry-Stormont, Grenville, Lanark Prescott-Russell and Renfrew counties.
į	e Prize in Analytical Chemistry [10247]	Amount: 2 awards of \$2,500
Donor(s): Qualification(s):	Winter semester. Application not required. <b>Colleagues, students and friends of Professor F.E.B. Roadhouse</b> Student with the highest grade in CHEM*2400 Analytical Chemistry I in the previous calendar year, who is continuing in an honours major program administered by the Department of Chemistry. In the event of a tie, laboratory performance will be considered. 1 award of \$200	International Undergraduate Scholarship [10577] Established through a student referendum approved by the undergraduate student be to recognize international students' academic merit along with involvement/leaders activities during their enrollment at the University of Guelph. Financial need wil considered only in the event of a tie. Apply to Student Financial Services, by Apr with a letter indicating involvement/extracurricular activity since entry to the Univers
Gonder Family (	Centre for Students with Disabilities Volunteer Award [10563]	two academic and/or professional references, and a completed Financial Need Assessn Form (N.A.F.) for International Students form. This award can only be held once by
colleagues regist encourage others student who has volunteer activition personal statemen undertaken as we experience. Apply by submitting abo Donor(s): Qualification(s):	the many students who volunteer their time and talents to assist their ered with the Centre for Students with Disabilities (CSD) and to to do so, Dr. John and Mrs. Katherine Gonder provide this award to a volunteered in the CSD. The award will be made on the basis of the es undertaken by the student at the CSD, one letter of reference, and a nt that outlines the time commitment and types of volunteer activities Il as an indication of how this was a valuable and rewarding volunteer y by January 15th to the CSD (c/o Advisor to Students with Disabilities) ove documentation. <b>Dr. John and Mrs. Katherine Gonder</b> 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 uplurteers with the CSD	<ul> <li>student.</li> <li>Donor(s): International Student Organization (ISO)</li> <li>Qualification(s): Full-time International students (defined as those paying full international student tuition without exemption), who have comple at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%, and is registered at the time application.</li> <li>Amount: 1 award of \$1,000</li> <li>Jean Carter Memorial Gerontology Scholarship [I0488]</li> <li>Established by the family and friends of Jean Carter, a Mac' 38 graduate who was activ involved in the life of the College and the University. Apply by letter to the CSA Undergraduate Awards Committee, Dean's Office by April 1st, including a statem that outlines the student's experience working with the elderly in a volunteer capacitation.</li> </ul>
	involved as volunteers with the CSD. 1 award of \$900	as well as extracurricular involvement the student may have and two letters of referen
Gonder Family S	Scholarship [10580]	one of which should be from someone who can speak to the student's volunt experiences with the elderly, while the other should comment on the extracurricu
of undergraduate achievement with program. Applica Donor(s): Qualification(s):	<ul> <li>cognition of the diversity of student abilities and the varying challenges</li> <li>e study. The recipient will be chosen on the basis of academic</li> <li>a preference to students enrolled in any CSAHS major of the B.Comm.</li> <li>tion not required.</li> <li><b>Dr. John and Mrs. Katherine Gonder</b></li> <li>All students in the CSAHS 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</li> </ul>	activities of the student.         Donor(s):       Mr. Robert N. Carter and Family         Qualification(s):       Undergraduate student in the CSAHS who has completed at least 1         credits with a minimum 70% cumulative average and has made a significant contribution to the care of the elderly. Preference will given to students in the BASc program majoring in Gerontology.         Amount:       1 award of \$1,000
	of Guelph's Centre for Students with Disabilities.	Jim Stokman Memorial Scholarship [10386] Mrs. Stokman and family, including her sons Nick (O.A.C.'77) and Andrew (O.A.C.'
	1 award of \$900	have established this award in memory of her husband and their father to recognize
	al's Medal [C0044] e Office of the Governor General of Canada. Application not required.	lifetime contribution to the family farm. Apply to Student Financial Services by A 1.
Donor(s): Qualification(s): Amount:	The Chancellery 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. 1 Silver medal mpany Scholarship [10288]	Donor(s):       Mrs. Jim Stokman         Qualification(s):       Available to O.A.C. students who have completed 5.0 credits with 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 rubackground and have demonstrated community/student involvement both during high school and the first two semesters of University.         Amount:       1 award of \$600
1 1	p Company donates this scholarship towards tuition fees, which is	John A. Archibald Memorial Scholarship [10014]
Donor(s): Qualification(s):	Vinter semester. Application not required. <b>Tricorp Chemical Specialities</b> Student enrolled in the organic chemistry courses CHEM*3750 and CHEM*3760 during the previous calendar year who has obtained the highest average in one Biochemistry course and two Organic Chemistry courses, and who is continuing in an honours major program administered by the Department of Chemistry. 1 award of \$1,200	<ul> <li>Awarded in memory of John A. Archibald, former Director of the Horticultural Resea Institute of Ontario. Apply to Student Financial Services by April 1.</li> <li>Donor(s): The friends and associates of the late John A. Archibald Qualification(s): Outstanding student with an interest in courses in the Department Land Resource Science who has completed semester 6. The recip will be chosen on the basis both of high academic standing and participation in extracurricular activities.</li> </ul>
H. Paul Jolly Aw	vard [10193]	Amount: 1 award of \$1,200
Application not re	-	
Qualification(s):	Richard Sulin Student with the highest cumulative average entering semester 3 of the B.Sc.(Env.) program. 1 award of \$450	

John Eccles Scholarship [10093] Nominations, accompanied by appropriate resumes, are to be submitted to Student Financial Services by April 1. 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 Donor(s): 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. 1 award of \$600 Amount: Amount: Kenneth W. Hammond Award [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 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. 1 award of \$1,000 Amount: Kip Hunter Prize [I0139] For the best essay, written by an undergraduate in a philosophy course. The essay may Donor(s): 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 the end of the 12th week of the Winter semester. Donor(s). Faculty, students and staff of the Philosophy Department Amount: 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 Donor(s): 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 Amount: 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. Lambda Foundation and other donors Donor(s) 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. 1 award of \$1,000 Amount: Land Resource Science Academic Scholarship [C0425] Provided by the Land Resource Science Endowment fund. Application not required. Provided by the Land Resource Science Endowment Fund Donor(s): Qualification(s): Student graduating from any major in the department with the highest

#### cumulative average. 1 award of \$1,000 Amount:

#### Land Resource Science Achievement Scholarship [C0426]

Provided by the Land Resource Science Endowment fund. Apply to Student Financial Services by April 1.

Donor(s):	Provided by the Land Resource Science Endowment Fund
Qualification(s):	Student graduating from any major in the department with a minimum
	cumulative average of 70%. Preference will be given to students
	contributing to student life on campus and/or community activities.
Amount:	1 award of \$1,000

# 215 Lange and Prokipcak Chemistry Scholarship [10528] This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokipcak, friends and colleagues. Professors Gordon L. Lange and Joe M. Prokipcak were valued members of the chemistry Faculty who retired in 2001. Their excellence in teaching was recognized within the university and nationwide, winning them a total of eleven teaching awards. Application not required. Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues Qualification(s): Student in C.P.E.S. with the highest average grade in CHEM\*1040,1050 and 2700 who has completed a minimum of 10.0

credits up to a maximum of 14.75 credits. 1 award of \$1,000

# Leonard Conolly Exchange Student Scholarship [I0446]

Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

#### Students, staff, faculty and friends of Dr. Leonard Connolly Qualification(s): Full-time visiting exchange undergraduate or graduate 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). 1 award of \$1,000 Mae McEwen Memorial Scholarship [I0185] Apply to Student Financial Services, by April 1. 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. 1 award of \$1,200 Marion McKenzie Prizes 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 not required.

#### Donor(s):

Amount:

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.

#### 3 awards of \$250 Monroe Landon Memorial Scholarship [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 31indicating 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 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 Scho	larships [10064]
	larships [10064] class of O.A.C. '55. Apply to Student Financial Services by April 1.

O.A.C. Centennial Graduate Fellowships [C0209]	T.K. Warley Agrifood Policy Prize [I0212]
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 Student Financial Services by April 1.	Established by Prof. T.K. Warley, former Chair of the Department of Food Agricultur and Resource Economics and a faculty member of the Ontario Agricultural College from 1970 to 1991. Application not required. <i>Donor(s):</i> <b>Professor T.K. Warley</b> <i>Qualification(s):</i> Student providing the best term paper written on a public policy issues
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 are eligible for these fellowships. The	relating to the agrifood system or rural society in courses such as         AGEC*3030 Price and Production Analysis, AGEC*4000 Agricultura         and Food Policy, and AGEC*4720 Special Study in Food Agricultura         and Resource Economics.         Amount:       1 award of \$500
fellowship will be based on academic achievement in semesters 7 and	The Jack and Lillian MacDonald Scholarship [E0379]
<ul> <li>8, as well as participation in extracurricular activities throughout the student's university career.</li> <li>Amount: 2 awards of \$2,200</li> </ul>	Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald Vice-President, Academic, of the University of Guelph from 1986 to 1995, hav
O.A.C. Students' Federation Medal [C0217]	established a scholarship that recognizes their commitment to increasing the accessibilit
Application not required.	of post-secondary education to aboriginal persons. Apply by letter to Student Financia Services by April 1.
Donor(s): <b>O.A.C.</b>	Donor(s): Jack and Lillian MacDonald
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 Medal         Oxford County Pork Producers Scholarship (Degree) [10531]	Qualification(s): In the first instance, the award will be given to an entering student coming from the Grand River Polytechnical Institute (GRPI) and wh has received the highest cumulative average in the Native University Access Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduat
The Oxford County Pork Producers beloansing (Degree) [10001] The Oxford County Pork Producers have made available this scholarship. Apply to	of the GRPI who has the highest cumulative average at the University
O.A.C. Awards Committee by April 1 with a letter of up to two pages in length including	Amount: 1 award of \$900
information about leadership, community involvement and pork industry involvement.	Thomas H. Peters Scholarship [I0233]
Donor(s): Oxford County Pork Producers	Application not required.
<i>Qualification(s):</i> Any student who has completed a minimum of 5.0 credits in an O.A.C. degree program with a minimum cumulative average of 70%, pork production background or interest in pork production/industry, and	Donor(s):         Friends and associates of Thomas H. Peters           Qualification(s):         Student in any academic program of the University who has complete courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with
Amount: 1 award of \$1,000	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.
Priscilla and Stanford Reid Trust Prize [10597]	Amount: 1 award of \$250
Established in honour the first chair of the History Department, Stanford Reid, and his	Toronto District Beekeeper's Association Scholarship [I0285]
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	A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application not required. <i>Donor(s):</i> <b>Mr. Jack Robinson</b>
Awards Chair.         Donor(s):       Priscilla and Stanford Reid Trust Fund         Qualification(s):       Any student submitting an essay on the history of Presbyterianism	Qualification(s): The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
and/or Reformed tradition.	Amount: 1 award of \$500
Amount: 1 award of \$500	United Steelworkers Local 4120 Scholarship [10293]
Robert Harcourt Scholarships [I0121]	Apply to Student Financial Services, by January 31.
This fund was established by the late Mrs. R. Harcourt in honour of the late Dr. Robert Harcourt. Application not required.	Donor(s):         United Steelworkers LU4120           Qualification(s):         Student who is a member or former member, or who is from the
Donor(s): Established by the late Mrs. R. Harcourt in honour of the late Dr. Robert Harcourt	immediate family of a member of United Steelworkers LU 4120, an who is entering semester 2, 3, or 4 of a degree or diploma program i
Qualification(s): Students who have completed the 4th or 6th semester levels with an interest in courses in the Department of Land Resource Science.	the Winter semester. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class
Amount:     2 awards of \$1,250       Stephanie Wilken Volunteer Award [10449]	standing in his or her previous full-time semester, provided that a minimum of 70% standing is obtained.
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to	Amount: 1 award of \$1,000
Student Financial Services with letter indicating the kind and extent of volunteer activities	Van Stralen and Van Der Hoeven Memorial Scholarship [10296]
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.	Application will be made by nominations signed by 4 currently registered student forwarded to Student Financial Services by April 1. Presentations are made in the Fa
Donor(s):         Bev and Darlene Wilken           Qualification(s):         Student registered in any undergraduate degree program, who has been	semester. Donor(s): Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeve
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.	& 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
Amount: 1 award of \$1,000	a minimum of 70% standing. 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

Provided by Dr.	shall Scholarship [I0451]	City of Guelp
April 1.	W.H. Minshall (O.A.C.'33). Apply to Student Financial Services by	Funded by a l
1		community lea
Donor(s):	O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall	Services with completed Fir
Qualification(s).	· O.A.C. students in the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree	exceed two page
	programs who have completed semester level 6 are eligible. Interest and aptitude in crop protection, particularly in weed biology and	service contril
	management. Interest in crop protection and achievement in courses	academic pert
	such as CROP*4240, ENVB*3030, ENVB*3210, ENVB*4100, and	award may be
	ENVB*4240 will be considered. Awarded on the basis of academic	Donor(s):
	standing in the relevant courses and participation in extra curricular	Qualification(
	activities.	
Amount:	1 award of \$1,000	
_	Medal [C0311]	
	gard Medal is the most prestigious graduating award of the University student will be nominated by each College Awards Committee. The	Amount:
	Committee will make the final selection and the medal will be awarded	Earl B. MacN
at Convocation i	n June. Application not required.	Established by
Donor(s):	The Board of Governors' of the University	Earl B. MacNa
Qualification(s).	· Graduating student who excels both academically and in extracurricular	the College of
	activities.	government's
Amount:	1 Gold medal	Form (N.A.F.) for this award
W.N. Vaughan	Medal [C0299]	Awarded in th
Prospective can	didates will be nominated by Senators and the medal winner will be	Donor(s):
•	mittee selected by the Striking Committee. The medal will be awarded	Qualification(
at Convocation i	n June. Application 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	
Amount:	through involvement in and commitment to Senate activities. 1 Medal	Amount:
	chin Scholarship [10574]	Eleanor Morg
	nour the work of Maryon Brechin's husband, O.A.C. '36, who dedicated and water quality concerns. Students must have a demonstrated interest	The family of I OSOTF progr
	in soil and water quality issues such as employment or extracurricular	completed Fin
1	omoting environmental protection of soil and water resources. Apply	involvement to
• •	O.A.C. Awards Office by letter of not more than two pages.	ACCESS AW
Donor(s):	Maryon Brechin	Donor(s):
Qualification(s).	Any student registered in a major offered by the Department of Land	Qualification(
	Resource Science who has completed a minimum 15.0 course credits.	
Amount:	1 award of \$1,000	
In-course Sc	holarships with Financial Need	
3M Canada Sch	nolarships [10564]	Amount:
Provided by 3N	I Canada. Apply to Student Financial Services by October 7 with a	Erin Demers
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<ul> <li>Funded by a leadership gift from the City of Guelph and donations from business at community leaders, this scholarship was established in 2002. Apply to Student Financi. Services with a letter describing volunteer activities and extracurricular activities, completed Financial Need Assessment Form (N.A.F.), and two reference letters not exceed two pages in length from individuals familiar with the volunteer and/or communits ervice contributions by Oct. 7. Selection will include equally weighted consideration academic performance, leadership both on and off campus and financial need. Tr award may be held only once.</li> <li><i>Donor(s):</i> The Guelph Community Foundation</li> <li><i>Qualification(s):</i> Students registered in any degree program with more than 5.0 cred and less than 10.5 credits of full-time study, a minimum cumulativ, 70% average, demonstrated leadership and financial need. Application: a two of \$2,000</li> <li><b>Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [I4172]</b></li> <li>Established by friends, faculty, staff, alumni and students of the University to hono Earl B. MacNaughton, former head of the Department of Physics and founding Dean the College of Physical and Engineering Science, with the assistance of the Ontar government's OSOTF program. Apply with a completed Financial Need Assessme Form (N.A.F.) to Student Financial Services by October 7. Students will be consider for this award automatically once a N.A.F has been submitted by the deadline da Awarded in the Winter semester. ACCESS AWARD.</li> <li><i>Donor(s):</i> Earl B. MacNaughton</li> <li><i>Cueditionally, students must for credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</i></li> <li><i>Amount:</i> 2 awards of \$1,000</li> <li>Eleanor Morgan &amp; Bill Archibald Scholarships [14540]</li> <li>The family of Eleanor and Bill Archibald, with the assistance of the Ontario governmention SOTF program. provide this scholarship i</li></ul>
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Eleanor Morgan & Bill Archibald Scholarships [I4540]         The family of Eleanor and Bill Archibald, with the assistance of the Ontario governmen         OSOTF program, provide this scholarship in memory of their parents. Apply with         completed Financial Need Assessment Form (N.A.F.) and a letter outlining communi         involvement to Student Financial Services by October 7. Awarded in the Winter semester         ACCESS AWARD.         Donor(s):       The Family of Eleanor & Bill Archibald         Qualification(s):       Students registered in any program with a minimum of 5.0 credits whave cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet to government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
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The family of Eleanor and Bill Archibald, with the assistance of the Ontario governmen OSOTF program, provide this scholarship in memory of their parents. Apply with completed Financial Need Assessment Form (N.A.F.) and a letter outlining communi involvement to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD. Donor(s): <b>The Family of Eleanor &amp; Bill Archibald</b> Qualification(s): Students registered in any program with a minimum of 5.0 credits wh have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
<ul> <li>completed Financial Need Assessment Form (N.A.F.) and a letter outlining communities involvement to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD.</li> <li>Donor(s): The Family of Eleanor &amp; Bill Archibald Qualification(s): Students registered in any program with a minimum of 5.0 credits where a 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).</li> </ul>
<ul> <li>involvement to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD.</li> <li>Donor(s): The Family of Eleanor &amp; Bill Archibald</li> <li>Qualification(s): Students registered in any program with a minimum of 5.0 credits where a cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).</li> </ul>
ACCESS AWARD.         Donor(s):       The Family of Eleanor & Bill Archibald         Qualification(s):       Students registered in any program with a minimum of 5.0 credits where a cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
Qualification(s): Students registered in any program with a minimum of 5.0 credits whave cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
Qualification(s): Students registered in any program with a minimum of 5.0 credits whave cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
involvement, and financial need. Additionally, students must meet t government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
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 Guel
who was tragically killed in a car accident in 1996, have established this scholarship
her memory. Apply to Student Financial Services by April 1 with a completed Financial
Need Assessment Form (N.A.F.), along with one supporting reference letter from
Residence Assistant, Residence Manager, or Residence Officer.
Donor(s): Family and friends of Erin Katrina Demers
<i>Qualification(s):</i> A student who has resided in an on-campus residence during the fin
semester and who has a minimum cumulative average of 70%. This
award is payable in the second year (ie. completed 5.0 course credit
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [14517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the studies as full-time students. Apply with a completed Financial Need Assessment For
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the studies as full-time students. Apply with a completed Financial Need Assessment For (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the studies as full-time students. Apply with a completed Financial Need Assessment For (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD         Donor(s):       Euclid-Hitachi of Canada Ltd.
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the studies as full-time students. Apply with a completed Financial Need Assessment For (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD         Donor(s):       Euclid-Hitachi of Canada Ltd.         Qualification(s):       Students with a minimum cumulative average of 70% with
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the studies as full-time students. Apply with a completed Financial Need Assessment For (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester 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
award is payable in the second year (ie. completed 5.0 course credit of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricul activities.         Amount:       1 award of \$2,000         Euclid-Hitachi Scholarships [I4517]         Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontar government's OSOTF program, to assist students with financial need to continue the studies as full-time students. Apply with a completed Financial Need Assessment For (N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester ACCESS AWARD         Donor(s):       Euclid-Hitachi of Canada Ltd.         Qualification(s):       Students with a minimum cumulative average of 70% with

218	IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences
George A. Gray O.A.C. '51 Varsity Scholarships [I0487]	Tara Lynn Giuliani Memorial Award [I0375]
Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a	In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness
great player of the game. Apply to Student Financial Services with a letter describing	stand in the way of her studies at the University of Guelph. Apply to the Centre for
on- and off-campus extra-curricular activities and a completed Financial Need Assessment	Students with Disabilities by November 25.
Form (N.A.F.) by October 7. To be considered for this award, you must list it on your	Donor(s): The Giuliani Family
N.A.F. and include a statement outlining your leadership involvement. Selection will include equally weighted consideration of academic performance, leadership and financial	Qualification(s): Most academically promising applicant with a demonstrated disability
need. Preference will be given to members of the varsity football team. Examples of	and having financial need.
leadership may include academic tutoring, mentoring team mates, assisting in the	Amount: 1 award of \$500
organization and promotion of varsity and/or intramural athletics, participation on	University of Guelph Retiree Association Degree Scholarship [I0569]
university committees, such as in residences, on Senate or in Colleges, and similar	This bursary is available to students who are related to a member of the U.G.R.A. as
off-campus activities. Students may receive the award up to four times. Awarded in the	child, grand-child, or great grand-child. Selection will be based on the greatest
winter semester.	demonstration of financial need. Apply to Student Financial Services by October 7 with
Donor(s): Mrs. George A. Gray	a Financial Need Assessment Form (N.A.F.) and a letter indicating the name of and
<i>Qualification(s):</i> Students who are members of varsity teams and in the second, third,	relationship to the U.G.R.A. member.
fourth or fifth year of full-time study with a minimum 70% average	<i>Donor(s):</i> University of Guelph Retirees Association (U.G.R.A.)
in all courses completed in the previous year of study and have demonstrated leadership.	<i>Qualification(s):</i> Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two
Amount: 2 awards of \$1,250	semester of full-time studies and demonstrated financial need.
	Amount: 1 award of \$1,000
Graham Family Incentive Scholarship [14506]	Walter and Marion MacDougald Scholarship [14530]
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.)	Established by the family of Walter and Marian MacDougald on the 50th wedding
to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS	anniversary of their parents, in recognition of their gift of life-long learning to their five
AWARD	children, with the assistance of the Ontario government's OSOTF program. Apply to
Donor(s): Harvey Graham O.A.C. '39	Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.)
<i>Qualification(s):</i> Students entering the fourth year of a four year degree program,	To be considered for this award, you must list it on your N.A.F. and include a statement
maintaining at least a 70% program average and demonstrating financial	that outlines your interests in food supply, utilization, farmland conservation or woodlot
need, who have previously received the Harvey Graham Bursary.	management. Preference will be given to students enrolled in a program involved in
Additionally, students must meet the government-mandated terms for	food supply or utilization, farmland conservation or woodlot management. ACCESS
receipt of an OSOTF award (see General Statements on Awards).	AWARD.
Amount: 1 award of \$5,000	<i>Donor(s):</i> <b>Doug MacDougald, D.V.M.</b> <i>Qualification(s):</i> Students demonstrating financial need with a minimum of 10.0 credits
Guelph Varsity Athletic Accessibility Scholarship [I0518]	and less than 15.0 credits and who are in the following
Apply to Student Financial Services with a letter describing on and off-campus	programs/majors/minors: BASc, BSc(Agr), BSc(Food
extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by October	Science, Animal Biology, Nutrition, or Forest Science), or D.V.M.,
7. To be considered for this award, you must list it on your N.A.F. and indicate which	having a minimum cumulative average of 70%. Additionally, students
varsity team you play on. Selection will be based upon equally weighted consideration	must meet the government-mandated terms for receipt of an OSOTF
of academic performance and evidence of leadership qualities. Students may receive the award up to four times. Awarded in the winter semester.	award (see General Statements on Awards).
Donor(s):         Alumni and friends of the University of Guelph	Amount: 2 awards of \$1,000
<i>Qualification(s):</i> Students with at least 5.0 credits and less than 20.5 credits, who are	Wellington Laboratories Scholarship [14308]
members of a varsity athletic team and who have demonstrated financial	Wellington Laboratories, with the assistance of the Ontario government's OSOTF
need. Students must have maintained at least a 70% cumulative average	program, established this award through an endowment provided by Mr. Brock Chittim
in all courses completed in the previous year of study (minimum 3.0	of Wellington Laboratories. Highly qualified students will be notified by the Chair of
credits).	the Department of Chemistry and the Department Awards Committee to complete a Financial Need Assessment Form (N.A.F.) and submit to Student Financial Services by
Amount: 2 awards of \$1,250	February 1. Awarded in the Winter semester. ACCESS AWARD
O.A.C. '52 Scholarships [I4538]	Donor(s): Mr. Brock Chittam of Wellington Laboratories
Offered by the class of O.A.C.'52, with the assistance of the Ontario government's OSOTF	<i>Qualification(s):</i> Students that have completed a minimum of 15.0 course credits of an
program. Apply by letter highlighting involvement in leadership and community activities	honours major program offered by the Department of Chemistry.
and/or university life along with a completed Financial Need Assessment Form (N.A.F.)	Student with demonstrated financial need and the highest cumulative
to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS	averages in at least three 3000 level chemistry courses taken in
AWARD.	semesters 5 or 6. Additionally, students must meet the
Donor(s): <b>O.A.C.</b> '52 Our differentiation (a), O.A.C. students encoded in the P.Se (Apr.), P.Comm. P.Se, or	government-mandated terms for receipt of an OSOTF award (see
<i>Qualification(s):</i> 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	General Statements on Awards). Amount: 2 awards of \$1,000
in good academic standing and who have demonstrated leadership.	
Additionally, students must meet the government-mandated terms for	William & Nona Heaslip Scholarship [10589]
receipt of an OSOTF award (see General Statements on Awards).	Students must apply to Student Financial Services by submitting a Financial Need
Amount: 2 awards of \$2,500	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
R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]	maintain a minimum 70% cumulative average of full-time study. Students will be
Douglas (O.A.C. '39) and Kathleen (MAC '39) Kennedy met at a "hop" on campus in	considered for this award automatically once a N.A.F has been submitted by the deadline
1937 and later married. They established this scholarship to celebrate their time on	date.
campus and their 62 years of marriage. Apply to Student Financial Services by October	Donor(s): The William and Nona Heaslip Foundation
7 with a completed Financial Need Assessment Form (N.A.F.). Students will be	Qualification(s): Students that have completed 4.0 credits but no more than 6.0 credits
considered for this award automatically once a N.A.F has been submitted by the deadline	in any degree program; are a Canadian citizen/permanent resident;
date. Awarded in the winter.	have a minimum 70% cumulative average; and demonstrate financial
	need.
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	Amount: 2 awards of \$15,000
	<i>Amount:</i> 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 Awards with Financial Need

# Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [13060]

Offered by Archie and Isabelle (Cook) Rintoul of O.A.C. '26 and MAC '27 respectively. Apply with a completed Financial Need Assessment Form (N.A.F.) by October 7 to Student Financial Services. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the winter.

#### Donor(s): Archie and Isabelle (Cook) Rintoul

Qualification(s):	Students registered in the department of Environmental Biology in the
	B.Sc., B.Sc.(Agr.) or the B.Sc.(Env.) degree programs who have
	completed a minimum of 10.0 credits and who have demonstrated
	financial need.
Amount:	1 award of \$500

#### Bette Stephenson Accessibility Bursary [I3054]

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

#### Donor(s): University of Guelph

 Qualification(s):
 Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.

 Amount:
 3 awards to a maximum of \$1,500

#### 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. Awarded in the Winter semester. 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). 2 awards of \$1,500

## Burnbrae Farms Bursaries [I3525]

Amount:

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.) to Student Financial 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): 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. Awarded in the Winter semester. 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

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. Awarded in the Winter semester. ACCESS AWARD. Class of '72: 25th Reunion Donor(s): 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. Awarded in the Winter semester. 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. Awarded in the Winter semester. 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

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. Awarded in the Winter semester.

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 [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 by October 7. Awarded in the Winter semester. 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 \$1,000

220	IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences
Donald P. Watson Bursaries in Horticultural Science [14501]	Guelph Student Assistance ACCESS Bursaries [13556]
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. Awarded in the Winter semester. ACCESS AWARD. Donor(s): The estate of Dr. 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 rangining in value between \$500 and \$2,000	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. Typically, awarded in the Winter semester. ACCESS AWARD.         Donor(s):       Central Student Association         Qualification(s):       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).         Amount:       Several awards of varying amounts up to \$1,000
Elizabeth Burton Bursaries [I3503]	Guelph Student Assistance Program [I3056]
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. Awarded in the Winter semester. 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	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. Typically, awarded in the Winter semester. 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
George and Margaret J. Miles Memorial Bursary [13544]	Gwen Karr Memorial Bursary [I3010]
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. Awarded in the Winter semester. 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). 2 awards of \$1,500	<ul> <li>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. Awarded in the Winter semester.</li> <li>Donor(s): Mr. T.K.C. Karr, O.A.C. '32</li> <li>Qualification(s): O.A.C. students with demonstrated financial need Amount: Several varies</li> <li>Helen Mahon Memorial Bursary [I3063]</li> <li>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 indicate on the N.A.F that you wish to be considered for this award. Awarded in the winter.</li> <li>Donor(s): Family and Friends of Helen Mahon</li> </ul>
Gryphon Investment Council Bursaries [13513]	Qualification(s): Students registered in any program who come from a family where
Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Awarded 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. 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 <i>Donor(s):</i> <b>Gryphon Investment Council Inc.</b> <i>Qualification(s):</i> 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). <i>Amount:</i> 2 awards of \$1,500 <b>Guelph Compassionate Health Bursary [I3061]</b> This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.	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. Awarded in the Winter semester. 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
Donor(s):         Student Health and Dental Plan Reserve           Qualification(s):         Students must be registered on the University of Guelph Student Health           Plan.         The student must require treatment for a condition not currently or completely covered by the Student Health Plan.           Amount:         Several varies to a maximum \$1,000	

#### International Emergency Medical Aid Assistance [I3059]

Mary I. Whitelock Bursaries [13524] Established by the estate of Mary I. Whitelock, a friend of the University, with the 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 assistance of the Ontario government's OSOTF program, to assist students who wish to covered by UHIP or the Student Dental/Medical insurance plans. Students should apply study full-time but who need financial support to do so. Apply with a completed Financial to the International Student Advisor, in the Centre for International Programs office, by Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students completing an International Student Financial Need Assessment Form (N.A.F.) and will be considered for this award automatically once a N.A.F has been submitted by the submitting documentation to support the medical issue. These bursaries are awarded on deadline date. Awarded in the Winter semester. ACCESS AWARD. an on-going basis. Estate of Mary I. Whitelock Donor(s): Donor(s): University of Guelph Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course (see General Statements on Awards). 13 awards of \$2,000 credits. Amount: Several awards of varying amounts Amount: O.A.C. '38 Lloyd Minshall Bursaries [I3529] International Student Bursaries [I3009] Established by O.A.C. '38 Alumni, with the assistance of the Ontario government's Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates International Student Advisor. 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 Donor(s) Mrs. Norma L. Valeriote automatically once a N.A.F has been submitted by the deadline date. Awarded in the Qualification(s): Students who are citizens of Third World countries, as defined by the Winter semester. ACCESS AWARD United Nations, who are registered in a degree or diploma program O.A.C. '38 Alumni and who demonstrate financial need. Donor(s): Amount: Several of varying amounts Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8 and O.A.C. graduate students are eligible to Irvine and Grace Black Memorial Bursary [I3051] apply. Additionally, students must meet the government-mandated Established in memory of Irvine and Grace Black, by friends and family to recognize terms for receipt of an OSOTF award (see General Statements on their many contributions to young people. Irvine, a well-known sheep breeder, was a Awards) judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was Amount: 7 awards of \$1,000 active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial O.A.C. '55 Access Bursaries [I3517] 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. Awarded Provided by the class of O.A.C. '55 with the assistance of the Ontario government's in the Winter semester. 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 Family and friends of Irvine and Grace B.L.A.ck Donor(s): automatically once a N.A.F has been submitted by the deadline date. Awarded in the Qualification(s): Full-time undergraduate students registered in any degree program Winter semester. ACCESS AWARD. 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 Donor(s): O.A.C. Class of '55 Qualification(s): Students at any semester level in an O.A.C. degree program or students Institute. 1 award of \$500 enrolled in the B.ENG. program with demonstrated financial need and Amount: a 60% minimum cumulative average. Additionally, students must meet Leroux Bursaries [13535] the government-mandated terms for receipt of an OSOTF award (see Established by Mr. Hector Leroux, O.A.C.'44, with the assistance of the Ontario General Statement on Awards). government's OSOTF program. Apply with a completed Financial Need Assessment Amount: Several awards of \$500 Form (N.A.F.) to Student Financial Services by October 7. Students will be considered O.A.C. '57 Bursaries [I3518] for this award automatically once a N.A.F has been submitted by the deadline date. Provided by the Class of O.A.C. '57 with the assistance of the Ontario government's Awarded in the Winter semester. ACCESS AWARD OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) Mr. J.H. Leroux Donor(s). to Student Financial Services by October 7. Students will be considered for this award Qualification(s): O.A.C. degree students in the B.Sc.(Agr.), B.Sc., B.Comm. or automatically once a N.A.F has been submitted by the deadline date. Awarded in the B.Sc.Env.) programs with demonstrated financial need. Additionally, Winter semester. ACCESS AWARD students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Donor(s). O.A.C. '57 and the O.A.C. Alumni Foundation Amount: 4 awards of \$1,000 Qualification(s): O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated Marie Hardacre Bursary [I3548] terms for receipt of an OSOTF award (see General Statements on Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHS with Awards). a preference to female students registered in the Department of Family Relations and 5 awards of \$1.000 Amount: Applied Nutrition. Apply by October 7 to Student Financial Services with a completed O.A.C. Alumni Foundation Access Bursaries [I3533] Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario winter semester. ACCESS AWARD. 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 Donor(s): Mrs. A. Marie Hardacre for this award automatically once a N.A.F has been submitted by the deadline date. Qualification(s): Students registered in any academic program in the College of Social Awarded in the Winter semester. ACCESS AWARD and Applied Human Sciences with demonstrated financial need. **O.A.C.** Alumni Foundation Donor(s): Additionally, students must meet the government-mandated terms for Qualification(s): O.A.C. undergraduate students with demonstrated financial need. receipt of an OTSS award (see General Statements on Awards). 1 award of \$4,500 Amount: Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Amount: 4 awards of \$500 Ontario Co-operatives R.P. Forshaw Bursary [I3013] The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have

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established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.

Qualification(s): Undergraduate students who have financial need. Preference may be

Donor(s):

Amount:

Forshaw

or credit union. 1 award of \$400

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

given to candidates who have been or are members of a co-operative

Ontario Federation of Agriculture Bursaries [13520] Provided by the Ontario Federation of Agriculture and the O.A.C. Alumni Foundation Established by O.A.C. Alumni Association, with the assistance of the Ontario with the assistance of the Ontario government's OSOTF program. Apply with a letter government's OSOTF program, to recognize Professor T.K. Warley's significant and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services contribution to the O.A.C. Alumni Foundation and to students through teaching and by October 7. To be considered for this award you must indicate it on our N.A.F. and promotion/development of "Experience Agriculture". A degree student may receive this include a statement outlining your extracurricular activities. Awarded in the Winter bursary twice. Apply by letter outlining extracurricular involvement and a completed semester. ACCESS AWARD Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7 Awarded in the Winter semester. ACCESS AWARD. **Ontario Federation of Agriculture** O.A.C. Alumni Association Qualification(s): O.A.C. students with demonstrated financial need enrolled in the Donor(s): B.Sc.(Agr.), B.Comm., B.Sc. or B.Sc.(Env.) programs. Preference will 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, be given to students from farm families who have participated in 4H and/or rural community activities. Additionally, students must meet as is participation in student activities, governance, and/or college the government-mandated terms for receipt of an OSOTF award (see affairs. Additionally, students must meet the government-mandated General Statements on Awards). terms for receipt of an OSOTF award (see General Statements on 12 awards of \$500 Awards). Amount: 3 awards of \$500 Ontario Grape Growers Bursary [I3033] University of Guelph Access Bursaries [13522] 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. Provided by alumni and friends of the University, with the assistance of the Ontario Students will be considered for this award automatically once a N.A.F has been submitted government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) by the deadline date. Awarded in the Winter semester. diploma 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 The Ontario Grape Growers Action Committee Services by October 7. Students will be considered for this award automatically once a Qualification(s): Students with good academic standing in semesters 3 to 6 of a degree N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS program or semesters 3 to 4 of a diploma program administered by AWARD. Variable amounts from \$500 to \$2,000 O.A.C., and demonstrated need of financial assistance. Alumni and Friend of the University of Guelph Donor(s): Several of various amounts *Oualification(s):* Full-time students with demonstrated financial need. Additionally, Robert Auger Humanitarian Bursary [I3058] students must meet the government-mandated terms for receipt of an This award, of up to \$500, has been established through the generosity of staff in the OSOTF award (see General Statements on Awards). Office of Registrarial Services, family and friends of Robert Auger, a former Associate Several awards of \$500, Several awards of \$2,000 Amount Registrar at the University of Guelph. It is intended as an emergency fund to assist University of Guelph Alumni Association Access Bursaries [I3523] students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. 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 Office of Registrarial Services but who need financial support to do so. Apply with a completed Financial Need Qualification(s): Students who require assistance through this fund should apply in Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be confidence to the Assistant Registrar, Financial Aid, Student Financial considered for this award automatically once a N.A.F has been submitted by the deadline Services. date. Awarded in the Winter semester. ACCESS AWARD. Several awards of \$500 University of Guelph Alumni Association Donor(s): Ron Scriver Memorial Bursary [13547] Qualification(s): Full-time in-course students with demonstrated financial need. Established in memory of Mr. Ron Scriver (1946 - 32005) C.P.E.S. B.A. '76, to honour Additionally, students must meet the government-mandated terms for his outstanding 32-year career with the Ontario Universities' Application Centre and his receipt of an OSOTF award (see General Statements on Awards). extensive involvement with colleagues throughout the University system. Preference 2 awards of \$1,000 Amount: will be given to students registered in the Bachelor of Computing Science Program. University of Guelph Child Care Bursaries [I3053] 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 In order to provide accessible child care to students with (a) child(ren), the University submitted by the deadline date. ACCESS AWARD. 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.) Family and Friends of Ron Scriver by October 7. Awarded in the Winter semester. Qualification(s): Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the Donor(s): University of Guelph Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial government-mandated terms for receipt of an OTSS award (see General Statements on Awards). need, to offset the costs of child care. To be eligible, undergraduate 1 award of \$1,500 students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial Scotiabank Bursaries [13532] need. Established by Scotiabank, with the assistance of the Ontario government's OSOTF Amount: Several awards of up to \$2,000 program, to assist students with financial need to continue their studies as full-time University of Guelph International Bursary [I3048] 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 The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD. 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 Scotiabank bursaries are awarded on an on-going basis. Qualification(s): Full-time students with demonstrated financial need. Additionally, University of Guelph students must meet the government-mandated terms for receipt of an Donor(s): OSOTF award (see General Statements on Awards). Qualification(s): Any International student registered in a degree program at the 2 awards of \$1,500 University of Guelph with a minimum registration of 1.50 course credits. Amount: Several varies

Donor(s):

Amount:

Donor(s):

Amount

Donor(s).

Amount:

Donor(s):

Amount:

Donor(s):

Amount:

IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences	223
University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]	Arthur D. Latornell Undergraduate Travel Grants [T0058]
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. Awarded in the Winter semester.         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 and a minimum of 2.0 course credits completed.         Amount:       Several awardsranging in value from \$100 to \$3,000	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 1 for Fall 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.
University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]	Donor(s): The Estate of Arthur D. Latornell
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. Awarded in the Winter semester.         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 and a	Qualification(s):       Students in semester 3 and above. Students must have at least a 70% average and a primary area of interest 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
Amount: Several awards to a maximum of \$800	Canadian Friends of the Hebrew University in Jerusalem Travel Bursary [T4532]
University Police Bursaries [I3019]	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
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.	assist students study at the Hebrew University of Jerusalem. Apply by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by May 1. ACCESS AWARD. Up to three awards totalling \$7500. Donor(s): Canadian Friends of the Hebrew University in Jerusalem
Donor(s):       The University Police         Qualification(s):       Full-time undergraduate and graduate students who have financial need.         Amount:       Several of various amounts	Qualification(s): Undergraduate degree students in either the second or third year of study, Masters students in the first year of study, and Doctoral students in the first three years of study are eligible to be considered. Applicants must provide documentation that they have approval from the Hebrew
University Student Assistance Program [I3057]	University of Jerusalem (i) to take courses and (ii) for the period of
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. Typically, awarded in the Winter semester.	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:3 Awards with varying amounts
Donor(s):         University of Guelph           Qualification(s):         Full-time undergraduate students registered in any degree program	D & G Hart Travel Grant [T0601]
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	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 April 1 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
A.W. Archibald Memorial Travel Grant [T4541]	Travel Grant. Donor(s): Family of Douglas and George Hart
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	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 \$1,000
or student advisor, a travel budget, and a completed Financial Need Assessment Form	H.C. Mason Travel Scholarships [T0598]
<ul> <li>(N.A.F.) by October 7. ACCESS AWARD.</li> <li>Donor(s): A.W. Archibald, O.A.C. '33</li> <li>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).</li> <li>Amount: Several up to \$1000</li> </ul>	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 April 1, 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
Aeroplan International Travel Grant [T0604]	tenable with other University of Guelph travel grants. <i>Donor(s):</i> Mr. F.W. Bray
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply by submitting a Financial Need Assessment Form accompanied by the standard Travel Grant Application by June 1 for Fall travel, October 1 for winter travel, and February 1 for summer travel to Student Financial Services. Award is subject to the availability of Aeroplan miles and may not be available every year.	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
Donor(s):       Aeroplan         Qualification(s):       Full-time students with a minimum cumulative average of 70%, completion of a minimum of 5.0 credits and confirmed participation in University of Guelph travel activities related to their academic program. Preference will be given to students participating in the semester abroad or academic exchanges.	
Amount: 1 plane ticket per each semster	

1 plane ticket per each semster

Amount:

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 April 1, no more than two semesters
prior to the commencement of the program.
Donor(s): Class of O.A.C. '54
<i>Qualification(s):</i> 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
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 description of the intended travel, an estimate of the travel
costs and a completed Financial Need Assessment Form (N.A.F.) at least one month
prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel,
and February 1 for Summer travel. ACCESS AWARD.
Donor(s): The Estate of Richard Hungerford
<i>Qualification(s):</i> 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 April 15. Varying
amounts (80% of the travel costs will be covered up to \$750 per student).
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 varies
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 April 15, and include a description of the study abroad program. Travel grant (or grants) totalling \$1,500.
Donor(s): Mr. Roderick W. Long
<i>Qualification(s):</i> O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters
Amount: Several awards of \$1,500
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 undergraduate and graduate 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. Apply to Student Financial Services with a description
of the intended travel, an estimate of the travel costs and a completed Financial Need
Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June
1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.
1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.Donor(s):University of Guelph
<ul> <li>1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Registered undergraduate and graduate students that have completed</li> </ul>
<ul> <li>1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Registered undergraduate and graduate students that have completed 5.0 credits with demonstrated financial need who have a minimum</li> </ul>
<ol> <li>for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Registered undergraduate and graduate students that have completed</li> <li>5.0 credits with demonstrated financial need who have a minimum</li> <li>70% cumulative average in the last two semesters of full-time</li> </ol>
<ul> <li>1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Registered undergraduate and graduate students that have completed 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study are eligible to apply. The value of the award will</li> </ul>
<ul> <li>1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Registered undergraduate and graduate students that have completed 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study are eligible to apply. The value of the award will depend on the assessed financial need. The scholarship can cover</li> </ul>
<ul> <li>1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.</li> <li>Donor(s): University of Guelph</li> <li>Qualification(s): Registered undergraduate and graduate students that have completed 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study are eligible to apply. The value of the award will</li> </ul>

# **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**

#### Angelo and Frank Agro Undergraduate Scholarship [E0520]

This \$7,000 (\$1,750 annually for four years) scholarship is provided by the Agro Scholarship Fund. Apply by April 1 to Student Financial Services, including a covering letter describing your past activities within 4H and a letter from a 4H club official describing your past activities with the organization. The scholarship will be awarded to the eligible student 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:	4 awards of \$7,000

#### 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 not required. Twenty-five awards of \$8,000 (\$2,000 annually for 4 years).

Donor(s):	Board of Governors
Qualification(s):	Outstanding students entering semester 1
Amount:	25 awards of \$8,000
December 6th N	Iemorial 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. Application 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.
	The recipient will be selected on the basis of academic performance.
	For continued eligibility beyond competer 1, the student must maintain

For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered.

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 to a graduate student from any of the O.A.C. Diploma programs offered at any of the University of Guelph campuses that enters a degree program at the University of Guelph. Apply by letter, by April 1 to the O.A.C. Awards Office on the main 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. Preference will be given to Graduates of the Diploma in Agriculture program. Amount: 1 award of \$1,200

#### 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. Application not required.

#### *Donor(s):* **Earl B. MacNaughton** *Oualification(s):* Students with high acad

 Qualification(s):
 Students with high academic standing, entering an honours program in the College of Physical and Engineering Science. Emphasis will be given to academic achievement in high school science and mathematics.

 Amount:
 4 awards of \$1,000

#### Gordon W. Innes Scholarship [E0140] Application not required. Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Donor(s): Agricultural Society. Qualification(s): Student from Oxford County with the highest admission average. 1 award of \$1,400 Amount: Honours Physics Scholarship [E0132] Offered by the Department of Physics, these awards will be made based on the student's admission average. A minimum 85% admission average is required to be considered. Application 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 high academic standing 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. Several awards of \$4,000 Amount: 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 not required. University of Guelph Donor(s): 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. Several awards ranging in value from \$500 - \$6,000 Amount:

# J.D. MacLachlan Scholarship [E0170]

Provided by the family of J.D. MacLachlan. Application not required.

Donor(s): The J.D. MacLachlan Trust

Qualification(s):	Student entering the University with the highest admission average.
Amount:	1 award of \$1,500

#### Lincoln Alexander Chancellor's Scholarship [E0493]

These scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend) were established in honour Lincoln Alexander, Chancellor of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are amongst the most prestigious entrance awards at the University of Guelph. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate one student who cannot be the President's Scholarship nominee. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

#### Donor(s): Many Donors

McArthur-Humphries Scholarship [E0183]	
Amount:	2 awards of \$26,000
	may be taken into consideration.
	demonstrated the potential to become leaders in society. Financial nee
	significant contributions to their schools and communities and
	with a disability or members of a racial minority, and who have made
Qualification(s):	Entering students of academic distinction who are Aboriginal, persor
Qualification(s):	0 1

Provided by the Wilhelmina McArthur-Humphries Trust Fund. This scholarship is awarded to students entering any undergraduate degree program and are based on the highest admission average. Application not required.

Donor(s):	Wilhelmina McArthur-Humphries Trust Fund
Qualification(s	): Students entering semester 1 with a minimum 75% admission average.
	Preference will be given to those students from Lanark and Wellington
	Counties. 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.
Amount:	12 awards 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 letter outlining extracurricular and/or community activities, ensuring that you have completed a Financial Need Assessment Form (N.A.F.) for Entrance Awards, and submit to Student Financial Services by April 1. Students who have applied to the University for admission will receive information on completing a Financial Need Assessment Form (N.A.F.) for Entrance Awards from the University early in the calendar year. This award is not tenable with the President's or Lincoln Alexander Chancellor's Scholarship. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. One award of \$12,000 (\$3,000 annually for 4 years).

# Donor(s): Paul and Aileen Clarke

 Qualification(s):
 Students with a minimum 80% average with a record of leadership and community participation are eligible. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

 Amount:
 1 award of \$12,000

#### President's Scholarship [E0238]

The most prestigious entrance awards at the University of Guelph. Twelve scholarships of \$26,000 (\$6,500 annually) plus the opportunity for a summer research assistanship after the first year of study (approximately \$6,000 stipend), named to honour their donors or distinguished members of the University. Students cannot apply directly for this award. Nominations must be made by each high school. Each high school can nominate two students; one entering a science program and one entering an arts/social science/humanities program. The nomination process is a two-part process: (a) the school's nomination and (b) the student's supporting documentation. This is outlined in the material sent to each high school in Canada from the University of Guelph each fall. High schools must submit the complete application (both parts) directly to the Associate Registrar, Student Financial Services by Feb. 1.

# Donor(s):

#### A number of President's Scholarships have been named in honour of the following people and/or donors:

#### Dick Brown

Two of the scholarships, endowed by Dr. Patrick Lett are awarded to winners whose leadership qualities best reflect those demonstrated by Dick Brown in University Athletics from 1968 to 1988.

#### 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): Entering students of academic distinction who have made significant
	contributions to their schools and communities and demonstrate the
	potential to become leaders in society.
Amount:	12 awards of \$26,000

#### The 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. Apply by letter to Student Financial Services by April 1.

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

Qualification(s):	In the first instance, the award will be given to an entering student
	coming from the Grand River Polytechnical Institute (GRPI) and who
	has received the highest cumulative average in the Native University
	Access 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 GRPI who has the highest cumulative average at the University.
Amount:	1 award of \$900

#### University of Guelph Entrance Scholarships [E0291]

This scholarship is based on the final admission average and program of study that is calculated by Admission Services, based on 12U, 12M, or O.A.C. courses. These will be awarded based on the final high school grades that are submitted to the University in July. A minimum 85% final admission average guarantees an award. The scholarship will be applied directly to the student's financial account in two equal payments in the Fall and Winter Semesters. You can view the scholarship amounts at: http://www.uoguelph.ca/studfin/fall\_current\_merit.shtml. Application not required.

#### Donor(s): University of Guelph

Qualification(s):	Students entering their first year of post-secondary studies for the first
	time and have a minimum 85% admission average.
Amount:	Several awards ranging in value from \$2,000 to \$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. Application not required.

# Donor(s): University of Guelph Faculty Association

Qualification(s):	Student entering an undergraduate degree program at the University
	of Guelph with the highest admission average who has been a resident
	in the County of Wellington during the previous twelve months.
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 not required.

#### Donor(s): Prof. Rosalina Morris

201101(5).	
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 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

#### **Entrance Scholarships with Financial Need**

# Bill Klopp Memorial Award [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 May 1. 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).

#### Donor(s): Ross and Mary Lou Klopp

Qualification(s):	Presented to a student entering semester 1 from the cities of Kitchener
	or Waterloo who has demonstrated involvement in extracurricular
	activities who has shown satisfactory academic performance and who
	has financial need.
Amount:	1 award of \$500

#### Devine Family Scholarship [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a Board of Governors member, with the assistance of the Ontario government's OTSS program, established this award for the purpose of diversifying the campus student body and fostering the participation of students of African Canadian descent in undergraduate programs. This award will be given out once every four years. The recipient of this award 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 May 1. 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 entering any degree program with a minimum 80% admission average, who are Aboriginal, person with a disability, or a member of a racial minority with demonstrated financial need. 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 \$25,000 (payable over 4 years of study)

#### Registrar's Entrance Scholarships [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 (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 May 1. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Scholarship, but can be held with all other Entrance Awards.

#### Donor(s): University of Guelph

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic merit.
Amount:	500 awards of \$2,000

#### 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 (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 May 1. ACCESS AWARD

#### Donor(s): Rol-Land Farms

Qualification(s)	: Outstanding entering undergraduate degree students 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

#### University of Guelph Accessibility Scholarship [E3038]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Scholarship, but can be held with all other Entrance Awards. Approximately 150 awards of \$9,000 (\$3,000 in year one and \$2,000 in years 2, 3 and 4).

#### Donor(s): University of Guelph

Qualification(s):	Students entering a full-time undergraduate program on the basis of
	financial need and academic excellence.
Amount:	150 awards of \$9,000

# **Entrance Awards with Financial Need**

#### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. '39). Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is May 1.

#### 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.
ŀ	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. Students who have applied to the University of Guelph will receive an application form.

#### Donor(s): University of Guelph

Amount:

1 award of \$200

Qualification(s):	Students on a student visa entering an undergraduate degree program
	at the University of Guelph with demonstrated financial need.
Amount:	Several awards of \$1,000, Several awards of \$3,000

#### 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 recommendation from the County agricultural representative or the secondary school principal is required and should be sent to Student Financial Services by April 1. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

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

1111001111.	12 dwards of \$500
In-course S	Scholarships
Bill Taylor M	emorial Scholarship [I0280]
11	o include a supporting letter from a coach or intramural supervisor. Apply ancial Services by April 1.
Donor(s):	AMF Canada Ltd.
Qualification( Amount:	<ul> <li>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.</li> <li>1 award of \$900</li> </ul>
CFRU Volun	teer Award [I0215]
Apply to the C	CFRU Board of Governors by April 30.
Donor(s):	Station Manager, CFRU
Qualification( Amount:	<ul> <li>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.</li> <li>2 awards of \$250</li> </ul>
Chemistry Cl	ub Prize for Chemistry Promotion [I0495]
submit a one-p	e Chemistry Club, together with the Dean of C.P.E.S Applicants should age type-written summary outlining their efforts to promote the disciplines within the University, or the community to the Executive of the Chemistry ary 1st.
Donor(s):	The Chemistry Club
Qualification(	s): Student at any semester level enrolled in a degree program administered by the Department of Chemistry, who has made a significant contribution to promotion of chemistry.

Class of 1970 Sc	cholarship [I0424]	Deans' Scholarships [10323]
of the University campus. The app	ne Silver Anniversary celebrants to commemorate the 25th anniversary 7 Class of 1970. This award rotates among all six colleges on the main propriate College Award Committee selects the candidate each Fall	Offered by the Board of Governors. Recipients will be selected by each of the College Awards Committees. Winners will be notified in the Fall semester. Application no required.
semester and the	candidate is announced each October. Application not required.	Donor(s): Board of Governors
Donor(s):	Class 1970: 25th Reunion Gift Outstanding student in any degree program who has attained at least	<i>Qualification(s):</i> Students registered in any degree program. The primary academic criteria is placement on the Deans' Honours List for two consecutive
Qualification(s).	an 80% average in two consecutive semesters resulting in placement	semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.
	on the Deans' Honours List.	program, in the previous Fall/Winter/Summer sequence.
Amount:	1 award of \$1,400	Amount: 150 awards of \$1,000
College of Physi	ical Engineering Science Academic Scholarship [I0073]	Dr. Caesar V. Senoff Memorial Scholarship for Excellence in Chemistry [10517]
Application not r	required.	The Senoff family and the College of Physical and Engineering Science, together with
	College of Physical and Engineering Science 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.	the University of Guelph Faculty Association and friends, have established thi scholarship in memory of Dr. Caesar V. Senoff. Dr. Senoff discovered the first dinitroget 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. Application no required.
Amount:	2 awards of \$250	<i>Donor(s):</i> Senoff family and the College of Physical and Engineering Science, togethe
	ical Engineering Science Graduation Prize [C0075]	with the University of Guelph Faculty Association and friends
	be selected in May from all students who have completed the program twelve months. Application not required. One award of \$250 and a plaque.	<i>Qualification(s):</i> Student majoring in any Chemistry program who has completed between 7.5 and 9.75 credits and who has the highest cumulative average over 80%.
Donor(s):	College of Physical and Engineering Science	Amount: 1 award of \$500
Qualification(s):	Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.	E.B. MacNaughton Convocation Prize [C0171]
Amount:	1 award of \$250, 1 Commemorative plaque	Established by the College of Physical and Engineering Science to honour Earl B MacNauchtan former had of the Department of Physica and founding Depart of the
College of Physi	ical Engineering Science Scholarship [I0076]	MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application not required. One award of a plaque-mounter
Awarded in the F	Fall semester to a student who has completed semester 6 in the previous	medal and \$250.
	pring semesters and who is enrolled in Year 4 of a College of Physical	Donor(s): The College of Physical and Engineering Science
• •	Science program. Application not required.	<i>Qualification(s):</i> The College of Physical and Engineering Science nominee for the
Donor(s): Qualification(s):	College of Physical and Engineering Science Recipients will be selected on the basis of a high average (minimum	Winegard Medal.           Amount:         1 award of \$250, 1 Plaque-mounted medal
Qualification(s).	80% average required) in courses normally taken in Year 3.	Egelstaff Scholarship [I0397]
Amount:	1 award of \$250	In honour of University Professor Emeritus and former Chair of the Department of
Collins Barrow	Award [10040]	Physics, Peter A. Egelstaff. Awarded in the Winter semester. Application not required
	ns Barrow, a national firm of Chartered Accountants. Awarded in the	Donor(s): Department of Physics
	Application not required.	<i>Qualification(s):</i> Student who has completed 12.5 course credits, is currently registered
Donor(s):	<b>Collins Barrow Chartered Accountants</b> Student with the highest grade in course BUS*3330, Intermediate	in one of the majors in Physics and has a high cumulative average (o at least 80%) in the required Physics courses normally taken in Year
Qualification(s).	Accounting, in the Fall semester. In the event of a tie, the scholarship	2 & 3 of the major.
	will be given to the student with the highest cumulative average in	Amount: 1 award of \$500
	their program.	Floyd Roadhouse Prize in Analytical Chemistry [10247]
Amount:	1 award of \$500	Presented in the Winter semester. Application not required.
	olarship in Physics [I0081]	<i>Donor(s):</i> Colleagues, students and friends of Professor F.E.B. Roadhouse
Application not 1	The faculty members of the Department of Physics through their Scholarship	<i>Qualification(s):</i> Student with the highest grade in CHEM*2400 Analytical Chemistry I in the previous calendar year, who is continuing in an honours majo
Donor(s):	Trust Fund	program administered by the Department of Chemistry. In the event
Qualification(s):	Students who have completed 7.5 course credits and are registered in	of a tie, laboratory performance will be considered.
	one of the majors programs in Physics. To be eligible, students must have completed the courses PHYS*2440 and PHYS*2460 with a	Amount: 1 award of \$200
	minimum of an A average. The awards will be made to the students	George A. Farley Scholarship [I0099]
	with the highest average in the Physics courses taken in the Year 1 and	Established in memory of George A. Farley, a chemistry graduate of the Class O.A.C.'33
Amount	in PHYS*2440 and PHYS*2460. 4 awards of \$500	and presented in the Winter semester. Application not required. <i>Donor(s):</i> James M. Farley
Amount:		<i>Qualification(s):</i> Student enrolled in a Co-op program administered by the Department
	Apiculture Scholarship [10031] emory of David Boyes a technician in the Apiculture Field Laboratory.	of Chemistry and who has completed their second work term within
Application not r		the preceding calendar year. Work term reports, work term assessment and course grades will be considered. The student must have a
Donor(s):	The Apiculture Club	cumulative average of at least 80%.
	Student registered in the Fall semester who achieves high academic	Amount: 1 award of \$250
	standing in Introductory Apiculture (ENVB*2210) in the previous	Governor General's Medal [C0044]
	year, demonstrates an interest in apiculture and who has participated in extracurricular activities.	Established by the Office of the Governor General of Canada. Application not required
Amount:	1 award of \$150	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:       1 Silver medal
		Amount. I Silvel medal

Guelph Soap C	ompany Scholarship [I0288]	James L. Hunt	Scholarship [I0603]
The Guelph Soa awarded in the V	ap Company donates this scholarship towards tuition fees, which is Winter semester. Application not required. <b>Tricorp Chemical Specialities</b>	Established on h The recipient wi	nonour of Professor Emeritus James L. Hunt, Medal of Merit recipien Il have achieved the highest cumulative average over 80%. This awar ith any other awards offered by the Department of Physics. Application
Donor(s): Qualification(s).	CHEM*3760 during the previous calendar year who has obtained the highest average in one Biochemistry course and two Organic Chemistry courses, and who is continuing in an honours major program	not required. Donor(s):	Department of Physics Students registered in any major offered by the Department of Physic that have completed 10.0 credits and have achieved a minimum 809
Amount:	administered by the Department of Chemistry. 1 award of \$1,200	Amount:	cumulative average. 1 award of \$1.500
	ed Pharmaceutical Chemistry Scholarship [I0454]		nolarship [10093]
	is donated by the faculty of the Department of Chemistry through their	-	ecompanied by appropriate resumes, are to be submitted to Studen
	t fund and is awarded annually in the Winter semester. Application not	Financial Servic	
Donor(s): Qualification(s).	Donated by the faculty of the Department of Chemistry through their scholarship trust fund : Student enrolled in the B.Sc.(Tech.) honours major Applied Pharmaceutical Chemistry program who completed Year's 2 course requirements in the previous calendar year, and has achieved the highest cumulative average, providing that at least 3.00 credits offered by the	1 / /	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 hav 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
	Department have been taken.	Amount:	1 award of \$600
Amount:	1 award of \$1,000	Kenneth W. Ha	mmond Award [I0045]
Hypercube Sch	olar Prize for Excellence in Chemistry [C0527]		of the student will be based on the final essay in the "Environmenta
any chemistry pro Donor(s):	<ul> <li>ecognize the student graduating with the highest cumulative average in ogram offered by the Department of Chemistry. Application not required.</li> <li>Hypercube Inc.</li> <li>Students graduating (or have graduated in the fall or winter of the current academic year) from a four-year degree program offered by</li> </ul>	Perspectives and comprised of 4 p and Engineering <i>Donor(s):</i>	<ul> <li>Human Choice: 5000 Days" course. The selection committee will be bersons: the donor, the Director of the Arboretum, the Dean of Physical Science and the Dean of Biological Science. Application not required Kenneth W. Hammond</li> <li>Student who has best demonstrated an understanding of the world's</li> </ul>
Amount:	the Department of Chemistry. A plaque and a molecular modelling software package.	Amount:	resource situation and its proper use by humankind. 1 award of \$1,000
	Indergraduate Scholarship [10577]		
	ugh a student referendum approved by the undergraduate student body,	Kip Hunter Pri	ze [10139] ny, written by an undergraduate in a philosophy course. The essay ma
considered only in the event of a tie. Apply to Student Financial Services, by April 1, 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. <i>Donor(s):</i> International Student Organization (ISO)		Winter semester <i>Donor(s)</i> :	<ul> <li>e Chair, Department of Philosophy, by the end of the 12th week of the</li> <li>Faculty, students and staff of the Philosophy Department</li> <li>Any undergraduate who has registered for a philosophy course durin the academic year in which the prize is awarded.</li> <li>1 Book prize</li> </ul>
	: Full-time International students (defined as those paying full	Lambda Found	ation Scholarship in LBGT Studies [I0591]
Amount:	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. 1 award of \$1,000	and transgender pertaining to the	rovided to encourage research on the subject of lesbian, bisexual, ga ed (LBGT) peoples. The scholarship is based upon areas of researc history, contributions, and issues by or about LBGT peoples. Preference an applicant who is involved in the LBGT community as demonstrate
	Graduation Medal in Physics [C0399]		blunteer activities, active civil society memberships, or as attested by
This medal is av Fall or Winter So Donor(s):	<ul> <li>warded to a graduating student in the Spring semester or the previous emesters. Application not required.</li> <li>Department of Physics</li> <li>Student who has completed semester 8 of any of the majors in Physics and who has obtained the highest cumulative average in the required</li> </ul>	academic pursuit must have been of Apply to the Dea project, curricul LBGT communi	nendation from a community group, or evidenced by related previou is. This scholarship may be awarded to a given student only once. Projec completed or research proposals accepted within the past calendar yea n of Arts by December 15th including the research proposal or complete um vitae, and any supporting letters referencing involvement in the ity and/or faculty support. Lambda Foundation and other donors
		Donor(s):	Lumoua Foundation and other uonors
Amount:	Physics courses of that program, normally taken in semester 5 to 8. 1 Medal	Qualification(s)	: Students enrolled in a program with a thesis, a research essay
	1 Medal	Qualification(s).	: Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to
J.L. Campbell S	1 Medal Scholarship [10479]	Qualification(s).	independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly
J.L. Campbell S Established in 1 (Academic), of	1 Medal	Amount:	independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant. 1 award of \$1,000
J.L. Campbell S Established in 1 (Academic), of	1 Medal Scholarship [10479] honour of J.L. (Iain) Campbell, former Provost and Vice-President the University of Guelph from 1995 to 2000 and former Dean of the	Amount: Lange and Prol	independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant. 1 award of \$1,000 sipcak Chemistry Scholarship [10528]
J.L. Campbell S Established in 1 (Academic), of College of Physia Donor(s): Qualification(s).	1 Medal Scholarship [10479] honour of J.L. (Iain) Campbell, former Provost and Vice-President the University of Guelph from 1995 to 2000 and former Dean of the cal and Engineering Science from 1987 to 1995. Application not required. Family, friends and colleagues of J.L. Campbell Student who is currently registered in one of the majors in Physics and who has completed at least 12.50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally taken in Year 2 and 3 of the major.	Amount: Lange and Prol This scholarship Prokipcak, frien were valued mer teaching was rec	independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant. 1 award of \$1,000 <b>kipcak Chemistry Scholarship [10528]</b> o was established by Professor Gordon L. Lange, Professor Joe M ds and colleagues. Professors Gordon L. Lange and Joe M. Prokipca nbers of the chemistry Faculty who retired in 2001. Their excellence cognized within the university and nationwide, winning them a total
J.L. Campbell S Established in 1 (Academic), of ( College of Physic Donor(s):	1 Medal Scholarship [10479] honour of J.L. (Iain) Campbell, former Provost and Vice-President the University of Guelph from 1995 to 2000 and former Dean of the cal and Engineering Science from 1987 to 1995. Application not required. Family, friends and colleagues of J.L. Campbell 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	Amount: Lange and Prol This scholarship Prokipcak, frien were valued mer teaching was rec	independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant. 1 award of \$1,000 <b>kipcak Chemistry Scholarship [I0528]</b> o was established by Professor Gordon L. Lange, Professor Joe M ds and colleagues. Professors Gordon L. Lange and Joe M. Prokipca nbers of the chemistry Faculty who retired in 2001. Their excellence

	y Exchange Student Scholarship [I0446] students, faculty, staff and friends to honour Prof. Leonard Conolly,	Society of Chen Chemistry [C03	nical Industries Prizes in Chemistry/Applied Pharmaceutical 333]
	ama, Chair of the Department of Drama, 1981-88, and Associate	Application not	
	Academic, 1988-1992. Apply to the Centre for International Programs	Donor(s):	Society of Chemical Industry
by April 5, for vi	siting during the subsequent Fall or Winter semesters. Selection, by the		Students who obtain the highest standing in the final year in each of
	national Programs, will be based on assessment of (a) a one-page	Quanyicanion(5)	the B.Sc. honours major Chemistry and the B.Sc. (Tech.) honours major
	ribing the significance of the student visiting Guelph to the program of		Applied Pharmaceutical Chemistry.
	ner exchange university (b) two faculty references of one-page each,	Amount:	2 Engraved plaques
	at high performance in the course work completed, as documented by a	Stenhanie Wilk	en Volunteer Award [10449]
transcript of prog	gram grades to date, submitted by the home university.		
Donor(s):	Students, staff, faculty and friends of Dr. Leonard Connolly		he Wilken family in memory of Stephanie Wilken, BA 1995. Apply to
Qualification(s):	Full-time visiting exchange undergraduate or graduate student,		I Services with letter indicating the kind and extent of volunteer activities Centre by October 1. Selection committee is the Senate Committee on
	registered at Guelph for at least one semester, from any country in the		commendation of the Student Wellness Educator at the Wellness Centre.
South (a list of eligible countries and exchange partner universities is			
A	available in the Centre for International Programs).	Donor(s):	Bev and Darlene Wilken
Amount:	1 award of \$1,000	Qualification(s)	: Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The
MacKenzie Sch	olarship [I0398]		recipient will be selected on the basis of academic performance in all
In honour of Uni	iversity Professor Emeritus Innes K. MacKenzie. Not tenable with the		courses to date and volunteer work at the Wellness Centre.
Egelstaff Scholar	rship. Application not required.	Amount:	1 award of \$1,000
Donor(s):	Department of Physics		
	Students who have completed 12.5 course credits and are currently		illian MacDonald Scholarship [E0379]
	registered in one of the majors in physics. It is given to a student with		, and colleagues of Lillian MacDonald and Dr. Jack MacDonald,
	a high cumulative standing (of at least 80%) in the required physics		Academic, of the University of Guelph from 1986 to 1995, have
	courses normally taken in Years 2 & 3 of the major.		olarship that recognizes their commitment to increasing the accessibility
Amount:	1 award of \$500	Services by Apr	y education to aboriginal persons. Apply by letter to Student Financial
MacNaughton S	Scholarship [10422]	5 1	
Established by F	Earl B. MacNaughton, former head of the Department of Physics and	Donor(s):	Jack and Lillian MacDonald
	of the College of Physical Science. Awarded in the Winter semester.	Qualification(s)	: In the first instance, the award will be given to an entering student
Application not 1	• •		coming from the Grand River Polytechnical Institute (GRPI) and who has received the highest cumulative average in the Native University
Donor(s):	Earl B. MacNaughton		Access Program. If there is no entering student in any one year, the
	Student who has completed semester 5 and is currently registered in		scholarship will be awarded to the in-course student who is a graduate
giangreamon(b)	one of the majors in Physics and has a high cumulative average (at		of the GRPI who has the highest cumulative average at the University.
	least 80%) in the required Physics courses normally taken in semesters	Amount:	1 award of \$900
	3, 4 and 5 of the major.		ers Scholarship [I0233]
Amount:	1 award of \$500	-	
Marion McKen	zie Prizes for Outstanding Achievement in History [I0470]	Application not	
	ve been established in memory of Marion McKenzie (1905-1994), a	Donor(s):	Friends and associates of Thomas H. Peters
-	a love of learning and a continuing curiosity about the world both past	Qualification(s)	Student in any academic program of the University who has completed
	esse are awarded to the top student in each of the required core courses		courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum
-	pgram (HIST*1010, HIST*2450, HIST*2602). Application not required.		of 70% cumulative average and have demonstrated an interest and
Donor(s):	ТВА		aptitude in the area of crops and land reclamation.
	The recipient for HIST*1010 must have completed no more than 5.0	Amount:	1 award of \$250
2	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		t Beekeeper's Association Scholarship [10285]
	10.0 credits.	1	offered by the Toronto District Beekeepers Association in memory of
Amount:	3 awards of \$250	the late Hugh M	cLeod, past chair of the Association. Application not required.
		Donor(s):	
Priscilla and Sta	anford Reid Trust Prize [10597]		Mr. Jack Robinson
	anford Reid Trust Prize [10597]		: The recipient will have good academic standing, have participated in
Established in ho	pnour the first chair of the History Department, Stanford Reid, and his		The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in
Established in ho wife, Priscilla F	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of	Qualification(s)	The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
Established in ho wife, Priscilla F Presbyterianism	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the		The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in
Established in ho wife, Priscilla F Presbyterianism paper and a cove	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of	Qualification(s) Amount:	The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair.	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the ering letter including contact information to the Department of History	Qualification(s) Amount: United Steelwo	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.</li> <li>1 award of \$500</li> </ul> rkers Local 4120 Scholarship [I0293]
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s):	phonour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the ering letter including contact information to the Department of History <b>Priscilla and Stanford Reid Trust Fund</b>	Qualification(s) Amount: United Steelwo	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.         <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31.</li> </ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s):	phonour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the ering letter including contact information to the Department of History <b>Priscilla and Stanford Reid Trust Fund</b> • Any student submitting an essay on the history of Presbyterianism	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.         <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31.         United Steelworkers LU4120     </li> </ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s):	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the ering letter including contact information to the Department of History <b>Priscilla and Stanford Reid Trust Fund</b> • Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.         <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31.         <ol> <li>United Steelworkers LU4120</li> <li>Student who is a member or former member, or who is from the</li> </ol> </li> </ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i>	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the rring letter including contact information to the Department of History <b>Priscilla and Stanford Reid Trust Fund</b> Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition. 1 award of \$500	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 </li> <li>Student who is a member of former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s): Amount: <b>R.C. Moffatt Me</b>	onour the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the rring letter including contact information to the Department of History <b>Priscilla and Stanford Reid Trust Fund</b> Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition. 1 award of \$500 emorial Scholarship in Physics [10535]	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 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</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s): Amount: R.C. Moffatt Me This scholarship	<ul> <li>priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a traditional t</li></ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [10293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 </li> <li>Student who is a member of former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>R.C. Moffatt Ma</b> This scholarship cumulative avera	<ul> <li>priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a ward of \$500</li> <li>emorial Scholarship in Physics [10535]</li> <li>b is awarded in the winter semester to the student with the highest age over 80%. This award is not tenable with any other Department of </li> </ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 </li> <li>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. If there is more than one eligible candidate, the</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. <i>Donor(s):</i> <i>Qualification(s):</i> <i>Amount:</i> <b>R.C. Moffatt M</b> This scholarship cumulative avera	<ul> <li>priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a traditional stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a ward of \$500</li> <li>a warded in the winter semester to the student with the highest</li> </ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 </li> <li>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. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s): Amount: R.C. Moffatt Mo This scholarship cumulative avera Physics scholarsh Donor(s):	<ul> <li>product the first chair of the History Department, Stanford Reid, and his Reid to acknowledge the best paper written about the history of and/or the Reformed tradition. Apply, by April 1, with a copy of the rring letter including contact information to the Department of History</li> <li>Priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>1 award of \$500</li> <li>emorial Scholarship in Physics [10535]</li> <li>b is awarded in the winter semester to the student with the highest age over 80%. This award is not tenable with any other Department of hips . Application not required.</li> <li>Estate of Professor R.C. Moffatt</li> </ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s):	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 </li> <li>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. 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, provided that a</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s): Amount: R.C. Moffatt Mo This scholarship cumulative avera Physics scholarsh Donor(s):	<ul> <li>priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a ward of \$500</li> <li>a swarded in the winter semester to the student with the highest age over 80%. This award is not tenable with any other Department of hips . Application not required.</li> <li>Estate of Professor R.C. Moffatt</li> <li>Student who have completed a minimum of 10.0 credits up to a</li> </ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s): Qualification(s)	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 </li> <li>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. 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, provided that a minimum of 70% standing is obtained.</li> </ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s): Amount: R.C. Moffatt Me This scholarship cumulative avera Physics scholarsh Donor(s):	<ul> <li>priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a ward of \$500</li> <li>emorial Scholarship in Physics [10535]</li> <li>b is awarded in the winter semester to the student with the highest age over 80%. This award is not tenable with any other Department of hips . Application not required.</li> <li>Estate of Professor R.C. Moffatt</li> <li>Student who have completed a minimum of 10.0 credits up to a maximum of 19.75 credits and is enrolled in a physics major.</li> </ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s): Qualification(s)	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 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. 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, provided that a minimum of 70% standing is obtained.</li></ul>
Established in ho wife, Priscilla F Presbyterianism paper and a cove Awards Chair. Donor(s): Qualification(s): Amount: R.C. Moffatt Me This scholarship cumulative avera Physics scholarsh Donor(s):	<ul> <li>priscilla and Stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a stanford Reid Trust Fund</li> <li>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</li> <li>a ward of \$500</li> <li>a swarded in the winter semester to the student with the highest age over 80%. This award is not tenable with any other Department of hips . Application not required.</li> <li>Estate of Professor R.C. Moffatt</li> <li>Student who have completed a minimum of 10.0 credits up to a</li> </ul>	Qualification(s) Amount: United Steelwo Apply to Studen Donor(s): Qualification(s)	<ul> <li>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping. <ol> <li>award of \$500</li> </ol> </li> <li>rkers Local 4120 Scholarship [I0293]</li> <li>t Financial Services, by January 31. United Steelworkers LU4120 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. 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, provided that a minimum of 70% standing is obtained.</li></ul>

IX. Scholarships and Other Awards, Bachelor of Science in Technology	231
Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]	Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [I4172]
<ul> <li>Application will be made by nominations signed by 4 currently registered students forwarded to Student Financial Services by April 1. Presentations are made in the Fall semester.</li> <li>Donor(s): Mr. &amp; Mrs. J. Van Stralen &amp; family and Mr. &amp; Mrs. Hans Van Der Hoeven &amp; family</li> <li>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. Selection will be made on the basis of participation in university activities and in the student's home</li> </ul>	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. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> Earl B. MacNaughton <i>Qualification(s):</i> Students currently registered in the final year of an honours program
community as well as qualities of leadership, ambition and initiative.	in the College of Physical and Engineering Science with high academic
Amount: 2 awards of \$400 W.C. Winegard Medal [C0311]	standing, demonstrated financial need, and who have completed a minimum of 15.0 credits. Additionally, students must meet the
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	government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).         Amount:       2 awards of \$1,000
at Convocation in June. Application not required.	Eleanor Morgan & Bill Archibald Scholarships [14540]
Donor(s):       The Board of Governors' of the University         Qualification(s):       Graduating student who excels both academically and in extracurricular activities.         Amount:       1 Gold medal	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. Awarded in the Winter semester. ACCESS AWARD.
W.N. Vaughan Medal [C0299]	Donor(s): The Family of Eleanor & Bill Archibald
<ul> <li>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 not required.</li> <li>Donor(s): Friends of Walter N. Vaughan</li> <li>Qualification(s): Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly</li> </ul>	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
Amount: 1 Medal through involvement in and commitment to Senate activities.	Erin Demers Memorial Scholarship [I0406]
In-course Scholarships with Financial Need	The family and friends of Erin Demers, a first-year student at the University of Guelph
<b>3M Canada Scholarships [I0564]</b> 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. Awarded in the Winter semester.         Donor(s): <b>3M Canada Company</b> Qualification(s):       Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.         Amount:       2 awards of \$1,000	<ul> <li>who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by April 1 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.</li> <li>Donor(s): Family and friends of Erin Katrina Demers</li> <li>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.</li> <li>Amount: 1 award of \$2,000</li> </ul>
C.P.E.S. Dean's Scholarship - ACCESS [14527]	Euclid-Hitachi Scholarships [14517]
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. Awarded in the Winter semester. This award may be held once only. ACCESS AWARD	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. Awarded in the Winter semester. ACCESS AWARD
<i>Donor(s):</i> Established by a number of industrial, commercial and public sector corporations	Donor(s): Euclid-Hitachi of Canada Ltd.
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	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
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 with a letter describing volunteer activities and extracurricular activities, a completed Financial Need Assessment Form (N.A.F.), and two reference letters not to	

Services complete exceed two pages in length from individuals familiar with the volunteer and/or community service contributions by Oct. 7. 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 with more than 5.0 credits
	and less than 10.5 credits of full-time study, a minimum cumulative
	70% average, demonstrated leadership 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

32		Ľ	X. Scholarships and Other Awards, Bachelor of Science in Technolog
George A. Gray O.A.C. '51 Varsity S	larships [I0487]	MacNaughton A	ACCESS Scholarship in Physics [14523]
great player of the game. Apply to Stud on- and off-campus extra-curricular activ Form (N.A.F.) by October 7. To be cor N.A.F. and include a statement outlinin include equally weighted consideration on need. Preference will be given to mem leadership may include academic tuto organization and promotion of varsity university committees, such as in resi off-campus activities. Students may rec winter semester. Donor(s): Mrs. George A. Gray Qualification(s): Students who are mem fourth or fifth year of in all courses complet	A.C. '51, a Guelph football lineman and a t Financial Services with a letter describing s and a completed Financial Need Assessment ered for this award, you must list it on your your leadership involvement. Selection will ademic performance, leadership and financial 's of the varsity football team. Examples of g, mentoring team mates, assisting in the nd/or intramural athletics, participation on ces, on Senate or in Colleges, and similar e the award up to four times. Awarded in the rs of varsity teams and in the second, third, l-time study with a minimum 70% average in the previous year of study and have	founding Dean of Department of Pl Apply with a com Services by Octo N.A.F has been su AWARD Donor(s): Qualification(s): Amount:	<ul> <li>Earl B. MacNaughton, former head of the Department of Physics ard of the College of Physical Science, and faculty, staff and alumni of the hysics, with the assistance of the Ontario government's OSOTF program pleted Financial Need Assessment Form (N.A.F.) to Student Financiaber 7. Students will be considered for this award automatically once ubmitted by the deadline date. Awarded in the Winter semester. ACCES</li> <li>Earl B. MacNaughton and faculty, staff and alumni of the Department of Physics</li> <li>Students with demonstrated financial need who are in second year of 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).</li> <li>4 awards of \$1,000</li> </ul>
Amount: demonstrated leadersh 2 awards of \$1,250			ara Lynn Giuliani, a bright young woman, who did not let her blindne
Graham Family Incentive Scholarshi	[4506]		y of her studies at the University of Guelph. Apply to the Centre for isabilities by November 25.
OSOTF program. Apply with a comple	ith the assistance of the Ontario government's Financial Need Assessment Form (N.A.F.) . Awarded in the Winter semester. ACCESS	Donor(s):	The Giuliani Family Most academically promising applicant with a demonstrated disabilit and having financial need. 1 award of \$500
Donor(s): Harvey Graham O.A.C		University of G	uelph Retiree Association Degree Scholarship [10569]
need, who have previo Additionally, students	rth year of a four year degree program, program average and demonstrating financial ly received the Harvey Graham Bursary. Ist meet the government-mandated terms for ard (see General Statements on Awards).	child, grand-chi demonstration of a Financial Need relationship to th	available to students who are related to a member of the U.G.R.A. a ild, or great grand-child. Selection will be based on the greate f financial need. Apply to Student Financial Services by October 7 with d Assessment Form (N.A.F.) and a letter indicating the name of an ne U.G.R.A. member.
Graham, Fraser and Trevor Bosch So	larships in Chemistry [I4288]	Donor(s):	University of Guelph Retirees Association (U.G.R.A.) Students related to a member of U.G.R.A. that are registered in a degree
the Ontario government's OSOTF pro registered in Year 3 (minimum of 10.00	uelph Soap Company, with the assistance of m. Students with high academic standing 4.75 credits) or Year 4 (at least 15.00 credits) Committee and Chair of the Department of	Amount:	program with a minimum 75% cumulative average in the last two semester of full-time studies and demonstrated financial need. 1 award of \$1,000
	Committee and Chair of the Department of ancial Need Assessment Form (N.A.F.) in	. · ·	oratories Scholarship [I4308]
in the B.Sc.(Tech.) AI have demonstrated fin financial need, prefere highest cumulative av courses taken in Year candidates in Year 3, demonstrated financia least three 3000 level of students must meet th		program, establis of Wellington Li the Department Financial Need A February 1. Awa Donor(s):	oratories, with the assistance of the Ontario government's OSOT shed this award through an endowment provided by Mr. Brock Chittir aboratories. Highly qualified students will be notified by the Chair of of Chemistry and the Department Awards Committee to complete Assessment Form (N.A.F.) and submit to Student Financial Services b arded in the Winter semester. ACCESS AWARD <b>Mr. Brock Chittam of Wellington Laboratories</b> : Students that have completed a minimum of 15.0 course credits of a honours major program offered by the Department of Chemistry. Student with demonstrated financial need and the highest cumulativ averages in at least three 3000 level chemistry courses taken in semesters 5 or 6. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Guelph Varsity Athletic Accessibility	holarship [I0518]	Amount:	2 awards of \$1,000
extra-curricular activities and a Financi 7. To be considered for this award, you varsity team you play on. Selection will of academic performance and evidence award up to four times. Awarded in the <i>Donor(s):</i> Alumni and friends of t <i>Qualification(s):</i> Students with at least members of a varsity a need. Students must ha in all courses complet credits).		Students must a Assessment Forr renewed for up maintain a mini considered for th date. Donor(s): Qualification(s):	a Heaslip Scholarship [10589] pply to Student Financial Services by submitting a Financial Nee m (N.A.F.) by October 7. Recipients of this award can have this awar to 3 years provided they continue to demonstrate financial need an imum 70% cumulative average of full-time study. Students will b is award automatically once a N.A.F has been submitted by the deadlin The William and Nona Heaslip Foundation : Students that have completed 4.0 credits but no more than 6.0 credit in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financi need. 2 awards of \$15,000
award up to four times. Awarded in the         Donor(s):       Alunni and friends of t         Qualification(s):       Students with at least         members of a varsity a       need. Students must ha         in all courses complet	nter semester. University of Guelph credits and less than 20.5 credits, who are tic team and who have demonstrated financial maintained at least a 70% cumulative average		considered for the date. Donor(s):

#### In-course Awards with Financial Need

# 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 [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. Awarded in the Winter semester. 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.) to Student Financial 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): 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. Awarded in the Winter semester. 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. Awarded in the Winter semester. 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. Awarded 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. 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): 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 Bursary [I3061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan. Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician recommendation, cost estimates and physician contact information to the Awards Officer, Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.

Donor(s):	Student Health and Dental Plan Reserve
Qualification(s):	Students must be registered on the University of Guelph Student Health
	Plan. The student must require treatment for a condition not currently
	or completely covered by the Student Health Plan.
Amount:	Several varies to a maximum \$1,000

#### Guelph Student Assistance ACCESS Bursaries [13556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Typically, awarded in the Winter semester. ACCESS AWARD.

# Donor(s): Central Student Association Qualification(s): 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). 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. Typically, awarded in the Winter semester.

# 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 indicate on the N.A.F that you wish to be considered for this award. 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] Robert Auger Humanitarian Bursary [I3058] This award, of up to \$500, has been established through the generosity of staff in the 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 Office of Registrarial Services, family and friends of Robert Auger, a former Associate Form (N.A.F.) to Student Financial Services by October 7. Students will be considered Registrar at the University of Guelph. It is intended as an emergency fund to assist for this award automatically once a N.A.F has been submitted by the deadline date. students who unexpectedly find themselves in difficult financial circumstances, to provide Awarded in the Winter semester. ACCESS AWARD grocery, and textbook vouchers. The Estate of Howard and Myrtle Rogers Office of Registrarial Services Donor(s): Donor(s): Qualification(s): Students with demonstrated financial need. Preference will be given Qualification(s): Students who require assistance through this fund should apply in to students from Wellington County. Students are encouraged to apply confidence to the Assistant Registrar, Financial Aid, Student Financial for an award in each year of study. The award may have been held in Services Several awards of \$500 previous years but students must demonstrate on-going financial need. Amount: Additionally, students must meet the government-mandated terms for Ron Scriver Memorial Bursary [I3547] receipt of an OSOTF award (see General Statements on Awards). Established in memory of Mr. Ron Scriver (1946 - 32005) C.P.E.S. B.A. '76, to honour 10 up to \$2,000 Amount: his outstanding 32-year career with the Ontario Universities' Application Centre and his International Emergency Medical Aid Assistance [I3059] extensive involvement with colleagues throughout the University system. Preference The University of Guelph provides support to International undergraduate students that will be given to students registered in the Bachelor of Computing Science Program. are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not Apply with a Financial Need Assessment Form to Student Financial Services by October covered by UHIP or the Student Dental/Medical insurance plans. Students should apply 7. Students will be considered for this award automatically once a N.A.F has been to the International Student Advisor, in the Centre for International Programs office, by submitted by the deadline date. ACCESS AWARD. completing an International Student Financial Need Assessment Form (N.A.F.) and Family and Friends of Ron Scriver Donor(s): submitting documentation to support the medical issue. These bursaries are awarded on Qualification(s): Students registered in any program offered by C.P.E.S. with an on-going basis. demonstrated financial need. Additionally, students must meet the Donor(s): University of Guelph government-mandated terms for receipt of an OTSS award (see General Qualification(s): Any International student registered in a degree program at the Statements on Awards). University of Guelph with a minimum registration of 1.50 course Amount: 1 award of \$1,500 credits. Scotiabank Bursaries [I3532] Amount: Several awards of varying amounts Established by Scotiabank, with the assistance of the Ontario government's OSOTF International Student Bursaries [I3009] program, to assist students with financial need to continue their studies as full-time Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the 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 International Student Advisor. considered for this award automatically once a N.A.F has been submitted by the deadline Mrs. Norma L. Valeriote Donor(s): date. Awarded in the Winter semester. ACCESS AWARD. 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 Scotiabank Donor(s): Qualification(s): Full-time students with demonstrated financial need. Additionally, and who demonstrate financial need. Amount: Several of varying amounts students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Irvine and Grace Black Memorial Bursary [I3051] Amount: 2 awards of \$1,500 Established in memory of Irvine and Grace Black, by friends and family to recognize University of Guelph Access Bursaries [I3522] their many contributions to young people. Irvine, a well-known sheep breeder, was a Provided by alumni and friends of the University, with the assistance of the Ontario 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 government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph) Services with a completed Financial Need Assessment Form (N.A.F.) and a letter diploma students who wish to study full-time but who need financial support to do so. outlining involvement in the 4-H Club and/or a Women's Institute by October 7. Awarded Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial in the Winter semester. 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 Family and friends of Irvine and Grace B.L.A.ck Donor(s): AWARD. Variable amounts from \$500 to \$2,000 Qualification(s): Full-time undergraduate students registered in any degree program Alumni and Friend of the University of Guelph with demonstrated financial need. Preference will be given to applicants Donor(s): who are, or have been, active in the 4-H Club and/or a Women's *Qualification(s):* Full-time students with demonstrated financial need. Additionally, Institute. students must meet the government-mandated terms for receipt of an Amount: 1 award of \$500 OSOTF award (see General Statements on Awards). Several awards of \$500, Several awards of \$2,000 Amount: Mary I. Whitelock Bursaries [I3524] University of Guelph Alumni Association Access Bursaries [I3523] 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 Established by the University of Guelph Alumni Association, with the assistance of the study full-time but who need financial support to do so. Apply with a completed Financial Ontario government's OSOTF program, to support students who wish to study full-time Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students but who need financial support to do so. Apply with a completed Financial Need will be considered for this award automatically once a N.A.F has been submitted by the Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be deadline date. Awarded in the Winter semester. ACCESS AWARD. 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): Estate of Mary I. Whitelock University of Guelph Alumni Association Qualification(s): Students with demonstrated financial need. Additionally, students must Donor(s): Qualification(s): Full-time in-course students with demonstrated financial need. meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). 13 awards of \$2,000 Amount: Amount: 2 awards of \$1,000 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. Awarded in the Winter semester. The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Donor(s): Forshaw *Qualification(s):* Undergraduate students who have financial need. Preference may be

or credit union. 1 award of \$400

Amount:

given to candidates who have been or are members of a co-operative

Frant [T0604]
h an airline ticket to international destinations served ce partners. Apply by submitting a Financial Need the standard Travel Grant Application by June 1 for ravel, and February 1 for summer travel to Studen ext to the availability of Aeroplan miles and may not ts with a minimum cumulative average of 70%,
ninimum of 5.0 credits and confirmed participation Guelph travel activities related to their academic
nce will be given to students participating in the
or academic exchanges.
r each semster
ate Travel Grants [T0058]
memory of Arthur D. Latornell, O.A.C. '50, who had esource management and conservation and a special he funds are given to provide twenty-five travel grants. ssist students in attending conferences, courses, co-op I programs in these areas. Students may receive this Financial Services. Deadline dates are June 1 for Fall I, and February 1 for Summer travel. Up to 80% of
um of \$1,000.
nur D. Latornell ster 3 and above. Students must have at least a 70% imary area of interest related to natural resources vironmental science, conservation, soil science and/or nt. Students will be asked to submit a one-page review perience, including the role the travel grant played, after completion of the travel. maximum of \$1000
<b>v University in Jerusalem Travel Bursary [T4532]</b> we University of Jerusalem, with the assistance of the begram, have established these travel scholarships to we University of Jerusalem. Apply by letter with a ment Form (N.A.F.) to Student Financial Services by three awards totalling \$7500.
of the Hebrew University in Jerusalem egree students in either the second or third year of udents in the first year of study, and Doctoral students
ears of study are eligible to be considered. Applicants
sumentation that they have approval from the Hebrew usalem (i) to take courses and (ii) for the period of s must also arrange appropriate University of Guelph Letter of Permission" prior to applying. Additionally, set the government-mandated terms for receipt of an see General Statements on Awards). arying amounts
00]
st students with travel and/or housing costs associated
of academic study or co-operative work experience Canada. Depending on availability of funds, more I for this award. Applications must be accompanied blanned travel, including budget, to the Chair of the months prior to departure. ysics completed at least semester 4 of one of the majors in ram with a cumulative average of 80% or greater, and a Letter of Permission to attend the University abroad.
o months pri ysics completed a cam with a c

#### 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 description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel. 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).
A .	

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 undergraduate and graduate 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. Apply to Student Financial Services with a description of the intended travel, an estimate of the travel costs and a completed Financial Need Assessment Form (N.A.F.) at least one month prior to departure. Deadline dates are June 1 for Fall travel, October 1 for Winter travel, and February 1 for Summer travel.

#### Donor(s): University of Guelph

 Qualification(s):
 Registered undergraduate and graduate students that have completed

 5.0 credits with demonstrated financial need who have a minimum

 70% cumulative average in the last two semesters of full-time

 equivalent study are eligible to apply. The value of the award will

 depend on the assessed financial need. The scholarship can cover

 additional costs of travelling outside of Canada including: airfare,

 administrative costs, and differential costs of accommodation.

 Amount:
 Several up to \$1,500

# **Doctor of Veterinary Medicine**

Please refer to the General Statement on Awards for:

- · Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- · How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

#### **Entrance Scholarships**

#### Elaine Harris Memorial Scholarship [E2108]

Family and friends of Elaine Harris, who in her short lifetime demonstrated exemplary care and love for all animals, have established this scholarship. Application not required. Donor(s): Shirley and Phil Harris Qualification(s): Student entering Phase 1 of the D.V.M. program. 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. Amount: 1 award of \$500

#### Grey County Cattlemen's Association Entrance Award [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 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. 1 award of \$100

# Amount

#### Jennifer Margaret Francis Memorial Award [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. The award is payable over 4 years to a student from the Region of Ottawa-Carleton entering Phase 1 of the D.V.M. program. Apply to the Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). One award of \$6,000 (paid \$1,500 per year for a maximum of four years). This award is offered once every 4 years to an entering D.V.M. student. Apply to Student Financial Services with a completed Need Assessment Application 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

Ç	Qualification(s):	Student from the Region Ottawa-Carleton entering Phase 1 of the D.V.M. program, based on financial need and academic performance
A	mount:	1 award of \$6,000
C	Quinte District	Veterinary Medical Association [E2002]
P	ward provided	by the Quinte Animal Welfare Foundation. Application not required.
L	Donor(s):	Quinte District Veterinary Medical Association
Ç	Qualification(s):	Student entering Phase 1 of the D.V.M. program from one of the
		following counties: Lennox and Addington, Prince Edward, Hasting
		or Northumberland with the highest average on eight required course

### 1 award of \$250 **Entrance Awards with Financial Need**

and MCAT score.

#### Dr. Alan Meek Bursary [E2159]

Amount:

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. 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): Student entering Phase 1 of the D.V.M. program with the greatest

financial need. 1 award of \$24.000 Amount

Eleanor McEwe	en Bursaries [E2153]
of \$5,000 per yea (N.A.F.) to Stud years to an enterin Need Assessment	id out over four years at \$6,000 per year. Not tenable with other awards ar or greater. Apply with a completed Financial Need Assessment Form ent Financial Services by Oct. 7. This award is offered once every 4 ng D.V.M. student. Apply to Student Financial Services with a completed nt Form by October 7. Students will be considered for this award ce a N.A.F has been submitted by the deadline date.
Donor(s):	The Jean Rich Foundation
	Students entering the Phase 1 of the D.V.M. program with the greatest demonstrated need of financial assistance. Satisfactory academic progress and continued demonstration of financial need is required to receive each annual payment of this award. 1 award of \$24,000
Peter Rich Burs	aries [E2123]
per year. Not ter completed Finan Oct. 7. Students submitted by the Donor(s): Qualification(s): Amount:	<b>The Jean Rich Foundation</b> Students entering the Phase 1 of the D.V.M. program with the greatest demonstrated need of financial assistance. Satisfactory academic progress and continued demonstration of financial need is required to receive each annual payment of this award. 1 award of \$30,000
In-course Scl	holarships
AAEP/Frank J.	Milne Memorial Award [C2103]
in memory of Dr	association of Equine Practitioners (AAEP) has established this award Frank J. Milne, an inspiring teacher and respected faculty member at rinary College from 1953 to 1984. Application 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*4840 (Large Animal Clinics).

#### American Animal Hospital Association Prize [C2003] Donated by the American Animal Hospital Association. Application not required. Awarded an engraved plaque, a commendation in the AAHA publication, a five year a membership in AAHA and a 5 year AHAA meeting membership.

#### The American Animal Hospital Association Donor(s):

1 award of \$500

Qualification(s): Student successfully completing Phase 4 of the D.V.M. program. The prize will be awarded based on proficiency in VETM\*4830 (Small Animal Clinics). Amount: 1 Engraved Plaque, a commendation in the AAHA publication, a five year membership in AAHA, and a 5 year AAHA meeting membership

#### Andrea Nott Memorial Scholarship [I2158]

Amount:

This award was established in memory of Andrea Nott, an aspiring veterinarian whose life was cut short by an automobile accident in the summer of 2002. Her compassion and caring marked every activity she undertook. The decision will be based on feedback from the laboratory facilitator, an evaluation by the standardized client, and the student's grade on his/her own assessment of, and reflection on, the videotaped interview. No application required.

Donor(s):	Callbeck Animal Hospital
Qualification(s	): D.V.M. student who have successfully completed Phase 1 and is
	completing Art of Veterinary Medicine I (VETM*3210) who best
	demonstrates the elements of effective interpersonal communication
	through active listening, demonstration of empathy and compassion
	to the client, and an understanding of the importance of the client's
	feelings, emotions and values in the clinical interview.
Amount:	1 award of \$750
Andrew Leslie	MacNabb Prize [C2031]
	MacNabb Prize [C2031] e O.V.C. Alumni Association. Application not required.
Presented by th Donor(s):	e O.V.C. Alumni Association. Application not required.
Presented by th Donor(s):	e O.V.C. Alumni Association. Application not required. American Board of Veterinary Public Health
Presented by th Donor(s):	e O.V.C. Alumni Association. Application not required. <b>American Board of Veterinary Public Health</b> ): Student who has successfully completed Phase 4 of the D.V.M. program

Andrew Smith N	Memorial Medal [C2060]	CALAM/ACM	AL Scholarship [C2078]
	V.C. in memory of the late Andrew Smith, founder of the Ontario	-	
-	ge. Application not required.		ne Canadian Association for Laboratory Animal Medicine/L'Association la Medecine des Animaux de Laboratoire (CALAM/ACMAL). The
	Friends and family of Andrew Smith		will be selected on the basis of scientific content, relevance to the field
	D.V.M. student who has successfully completed Phase 4 with the		imal science and quality of the manuscript. The case report may be
	highest program average at the end of Phase 4. The student's entire		English or French, and must be in a format suitable for publication in
	college career will be considered.		eterinary Journal. Submit Reports to the OVC Assistant Dean, Student
Amount:	1 Medal	Affairs, by Febr	•
-	tario Veterinarians Award [12076]	Donor(s):	Canadian Association for Laboratory Animal Medicine/L'Association Canadienne de la Medecine des Animaux de Laboratoire (CALAM/ACMAL)
Endowed by the A to 1990. Applicat	Auxiliary to Ontario Veterinarians, supporting the profession from 1946 tion not required	Qualification(s).	: Full-time students in the D.V.M. program who have completed Phase
	The Auxiliary to Ontario Veterinarians	Amount:	4 1 plaque, 1 award of \$250
	Student who has completed Phase 2 of the D.V.M. program and who		
	has demonstrated the greatest improvement in academic performance	-	ot Symposium's Prize in Avian Studies [C2130]
	between Phases 1 and 2 of the D.V.M. program		Canadian Parrot Symposium for an undergraduate student in the D.V.M. duate student enrolled in a department at the Ontario Veterinary College.
Amount:	1 Award amount varies		ill be selected on the basis of academic achievement and dedication to
	Health Prize in Dentistry [C2149]	the discipline. A	pplication not required.
Provided by Ave	ntix Animal Health. Application not required.	Donor(s):	The Canadian Parrot Symposium
( - ) -	Aventix Animal Health	Qualification(s).	: Undergraduate student registered in the D.V.M. program or graduate
	Student who has successfully completed Phase 4 of the D.V.M. program		student registered in the Faculty of Graduate Studies that is enrolled in a department at the Ontario Veterinary College and is pursuing
	who has the highest mark in the Dentistry rotation of the course VETM*4830 (Small Animal Clinics).		studies dealing with companion birds, their welfare and well-being,
Amount:	1 award of \$250		and the human/companion bird relationship.
	Health Prize in Ophthalmology [C2138]	Amount:	1 up to \$1,500
	ntix Animal Health. Application not required.	Canadian Veter	rinary Medical Association Prize [C2014]
	Aventix Animal Health		he Canadian Veterinary Medical Association (CVMA). Application not
	Student who has successfully completed Phase 4 of the D.V.M. program		ipient will be selected by the final year class on the basis of demonstrated
	who has the highest mark in the Ophthalmology rotation of the course	leadership abilit	
	VETM*4830 (Small Animal Clinics).	Donor(s):	Canadian Veterinary Medical Association
	1 award of \$250	Qualification(s).	: Student who has successfully completed Phase 4 of the D.V.M.
	Don Kuzik Memorial Scholarship [I2155]	Amount:	program. 1 Plaque
	arB Crowe as a memorial to her beloved husband, Don Kuzik, and their	Canadian Veter	rinary Medical Association Prize [I2015]
	on of Don's ethic of friendship, encouragement, teamwork and a lifelong Application not required.	-	he Canadian Veterinary Medical Association (CVMA). Application not
	BarB Crowe	required.	······································
()	Student who has completed Phase 3 of the D.V.M. program with a	Donor(s):	Canadian Veterinary Medical Association
	demonstrated exceptional commitment to teamwork and willingness	Qualification(s).	: Student who have completed Phase 3 of the D.V.M. program. The
	to support classmates and colleagues, as selected by a vote of the Phase		recipient will be selected by members of the third year class on the
	4 class.	Amount:	basis of leadership and achievement in student affairs. 1 award of \$800, and a plaque
	1 award of \$1,000		
	Award [C2007]		n McGilvray Prize [C2034]
-	ose McBride. Application not required.		.V.C.'41 has donated this award to honour the memory of Dr. C.D. ncipal of the Ontario Veterinary College, 1918-45. Application not
( - ) -	Mrs. Rose McBride		ward of \$200 and a framed certificate
	Student who has completed Phase 4 of the D.V.M. program and who has demonstrated kindness and care in the treatment of animals in the	Donor(s):	OVC Class - 1941 (Dr. D.A. Barnum, OVC)
	medicine and surgery clinics.		: Student who has successfully completed Phase 4 of the D.V.M. program
Amount:	1 award of \$500		who by scholarship, leadership, personality, character, and interest
Betty Goldhart	Scholarships in Medical Genetics [I2024]		made a worthy contribution to the College as an undergraduate and who is the College's nominee for the Winegard Medal.
Applicationnot re	equired.	Amount:	1 award of \$200
	The Estate of Betty Goldhart		xer Memorial Prize [I2006]
Qualification(s):	Students who have completed Phase 1 of the D.V.M. program and		J.M. Baker of Meaford in memory of Dr. Charles Baker, O.V.C.'23.
	received the first and second highest marks in VETM*3390 (Veterinary	Application not	
Amount:	Medical Genetics). 1 award of \$75	Donor(s):	Dr. M. Baker and Mrs. Charles Baker
			Student, with the highest relative class standing in any of the Phases,
	norial Scholarship [10280]		1, 2 or 3 of the D.V.M. program. Student must have a minimum of a
	nclude a supporting letter from a coach or intramural supervisor. Apply cial Services by April 1.	Amount:	70% cumulative average. 1 award of \$200
Donor(s):	AMF Canada Ltd.		rinarians of Ontario Prize [12080]
	Full-time student who has completed a minimum of 7.5 credits, but	-	the College of Veterinarians of Ontario. Application not required.
			ne conce or vetermanans of Ontario. Application not required.
	no more than 17.5 credits in the Winter term who has a cumulative	-	
·- · · · ·	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	Donor(s):	College of Veterinarians of Ontario
	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	Donor(s):	<b>College of Veterinarians of Ontario</b> : Student who has completed Phase 4 of the D.V.M. program and has
	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	Donor(s):	College of Veterinarians of Ontario

Deans' Scholarships [10323]	Dr. J. Grant Savage (OVC '48) Memorial Prize [I2140]
Offered by the Board of Governors. Recipients will be selected by each of the College	This award has been established by family and friends of Dr. Savage who dedicated his
Awards Committees. Winners will be notified in the Fall semester. Application not	life to the health and welfare of farm animals, thus helping to maintain the fabric of rura
required.	life in Maine. Application not required.
Donor(s):         Board of Governors           Qualification(s):         Students registered in any degree program. The primary academic	<i>Donor(s):</i> Family and friends of Dr. J. Grant Savage <i>Qualification(s):</i> Full-time student completing Phase 3 of the D.V.M. program. Selection
criteria is placement on the Deans' Honours List for two consecutive	will be based on high academic standing (at least A-) in the course
semesters, excluding semesters 7 and 8 or Phase 4 of the D.V.M.	VETM*4530 (Advanced Health Management ). Preference will be
program, in the previous Fall/Winter/Summer sequence.	given to students who have shown an interest in ruminant medicine,
Amount: 150 awards of \$1,000	surgery and health management through participation in related
Dorothea Daniell-Jenkins Memorial Scholarship [I2107]	activities. Amount: 1 award of \$800
Friends, family and fellow dog fanciers have established a scholarship in memory of	Dr. Jack Lange Memorial Scholarship [C2122]
Dorothea Daniell-Jenkins, a respected judge and Terrier breeder. Application not required.	Family, friends and colleagues of Dr. Jack Lange (O.V.C.'71) have established this
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	memorial scholarship to recognize his contributions to the equine industry, the mutua
externship, who is judged to be the most proficient in small animal	respect he shared with his clients, and his zest for life. Application not required.
medicine and surgery, based on academic performance in Phase 3.	Donor(s): Family, friends and colleagues of Dr. Jack Lange, OVC '71
Amount: 1 award of \$700	<i>Qualification(s):</i> Student who has successfully completed Phase 4 of the D.V.M. program
Dr. A. Noel-Smith Memorial Award [C2090]	who has submitted the best case report dealing with an equine clinica
Provided by the Oakville Humane Society in honour of Dr. A. Noel-Smith. Application	<i>Amount:</i> 1 award of \$500 condition in the course VETM*4900 (Veterinary Externship).
not required.	Dr. Jean Rumney Memorial Scholarships [I2098]
Donor(s): Oakville Human Society	Donated by the Hamilton Dog Obedience Club Incorporated in memory of Dr. Jean
<i>Qualification(s):</i> Student completing Phase 4 of the D.V.M. program with high academic standing, who is a resident of Oakville or the Regional Municipality.	Rumney (O.V.C.'39). Application not required. One award of \$600 (first place) and one
standing, who is a resident of Oakville or the Regional Municipality of Halton, and who has made a contribution to humane activities during	of \$400 (second place).
the course of studies.	Donor(s): The Hamilton Dog Obedience Club Inc.
Amount: 1 award of \$500	Qualification(s): Students who have completed Phase 2 of the D.V.M. program, and
Dr. C.K. "Chuck" Roe Memorial Scholarship [I2096]	who rank first and second in the small animal portions of the courses
The Class of O.V.C.'60, together with family, friends and colleagues of Dr. "Chuck"	VETM*3430 (Clinical Medicine I) and VETM*3430 (Clinical Medicine II).
Roe (O.V.C.'50), a respected faculty member of the Ontario Veterinary College and	Amount: 1 award of \$600, 1 award of \$400
exemplary humanitarian have endowed this memorial scholarship. Application not	Dr. John Lindner Award [I2126]
required.	Donated by Kingsdale Animal Hospital and the family of Dr. John Lindner (O.V.C.'73)
<i>Donor(s):</i> Mrs Lillian Roe <i>Qualification(s):</i> Student who has completed Phase 3 of the D.V.M. program with the	an esteemed companion animal practitioner and humanitarian. Application not required.
highest grade in the swine health management components of the	Donor(s): Kingsdale Animal Hospital and the family of John Lindner
courses VETM*4530 (Advanced Health Management) and	Qualification(s): Student who has completed Phase 1 of the D.V.M. program. Recipien
VETM*4460 (Food Animal Medicine and Surgery). The recipient's	will be selected on the basis of academic performance in the course
participation in College and other extracurricular activities will also be considered.	VETM*3070 Veterinary Anatomy.           Amount:         1 award of \$500
Amount: 1 award of \$500	Dr. John Reeve-Newson Emergency Medicine Prize [C2150]
Dr. D.J. McLellan Scholarship [C2035]	Presented by the Veterinary Emergency Clinic of Toronto in recognition of the
Provided by the estate of Dr. D.J. McLellan (O.V.C.'17). Application not required.	exceptional contributions of Dr. John Reeve-Newson. Dr. Reeve-Newson served as chair
Donor(s): Estate of Dr. and Mrs. David John McLellan	of the clinic board for over 25 years, and was instrumental in the development and growth
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program	of the facility. Application not required.
with the highest standing in the courses in which equine contagious	Donor(s): The Veterinary Emergency Clinic
diseases are taught: VETM*4450 (Equine Medicine & Surgery), VETM*4840 (Large Animal Clinics) and VETM*4850 (Health	<i>Qualification(s):</i> Student completing Phase 4 of D.V.M. program, who has the highest mark in the Emergency & Critical Care Medicine rotation of the course
VETM*4840 (Large Animal Clinics) and VETM*4850 (Health Management).	mark in the Emergency & Critical Care Medicine rotation of the course Small Animal Clinics (VETM*4830).
Amount: 1 award of \$2,000	Amount: 1 award of \$1,000
Dr. George Rankin Memorial Equine Scholarship [I2053]	Dr. Jonathon Bloom (OVC '93) Ambassadorial Scholarship [C2114]
Established to honour the memory of Dr. George Rankin. Apply to the O.V.C. Awards	Jonathan Bloom (O.V.C.'93) and his family have endowed this award. Application no
Committee with a resume and supporting letters documenting your interest and aptitude	required.
in equine medicine and surgery by January 15.	Donor(s): Dr. and Mrs. Howard Bloom
Donor(s): Mrs. George Rankin	Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program
<i>Qualification(s):</i> Student in the D.V.M. program who is entering Phase 4 (final year),	and completed an approved elective experience outside the institution
and who has a minimum B average. Amount: 1 award of \$1,000	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
Dr. Ian B. Johnstone Veterinary Physiology Prize [12160]	•
<b>Dr. Ian B. Johnstone Veterinary Physiology Prize [12160]</b> Family and friends of Dr. Ian B. Johnstone (OVC '66) have established this memorial	motivation in a non-traditional elective experience in veterinary
<b>Dr. Ian B. Johnstone Veterinary Physiology Prize [12160]</b> Family and friends of Dr. Ian B. Johnstone (OVC '66) have established this memorial award to recognize his valued contribution to the teaching of physiology in the D.V.M.	motivation in a non-traditional elective experience in veterinary medicine.
Dr. Ian B. Johnstone Veterinary Physiology Prize [I2160] Family and friends of Dr. Ian B. Johnstone (OVC '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 not required	motivation in a non-traditional elective experience in veterinary
Dr. Ian B. Johnstone Veterinary Physiology Prize [I2160]         Family and friends of Dr. Ian B. Johnstone (OVC '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 not required Donor(s):         Friends and family of Ian B. Johnstone	motivation in a non-traditional elective experience in veterinary medicine.
Dr. Ian B. Johnstone Veterinary Physiology Prize [I2160] Family and friends of Dr. Ian B. Johnstone (OVC '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 not required	motivation in a non-traditional elective experience in veterinary medicine.

Dr. Neal Mendel	Ison Memorial Award [C2089]	Governor General's Medal [C0044]
practitioner. App Donor(s): Qualification(s):	family of Dr. Neal G. Mendelson (O.V.C.'47), a renowned equine lication not required. <b>Mrs. Barbara Mendelson</b> Student who has successfully completed Phase 4 of the D.V.M. program, and is the most proficient in equine studies based on grades	Established by the Office of the Governor General of Canada. Application not require         Donor(s):       The Chancellery         Qualification(s):       Restricted to those undergraduate students in any degree program w         are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.
	in courses VETM*4450 (Equine Medicine and Surgery) and	Amount: 1 Silver medal
	VETM*4840 (Large Animal Clinic) rotations. 1 award of \$200	Holstein Association of Canada Prize [C2026]
	re Memorial Award [10046]	Presented by the Holstein Association of Canada. Application not required.
Family, friends, p have donated this who dedicated his and curriculum v Affairs, O.V.C., b Donor(s):	professional colleagues and associates who care for laboratory animals s award in memory of Dr. Roy S. Moore (O.V.C.'54), a veterinarian a career to the promotion of humane laboratory animal care. Nominations vitae of the nominees must be sent to the Assistant Dean for Student by January 15. <b>Mrs. Shirley Moore</b>	Donor(s):Holstein Association of CanadaQualification(s):Student who has successfully completed Phase 4 of the D.V.M. progr who has the highest standing in bovine medicine based on VETM*34 (Clinical Medicine II) and VETM*4870 (Clinical Medicine III), VETM*4840 (Large Animal Clinics) and VETM*4850 (Health Management).Amount:1 award of \$400
	The recipient will be selected from undergraduate students nominated	International Undergraduate Scholarship [10577]
	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. 1 award of \$350	Established through a student referendum approved by the undergraduate student boo to recognize international students' academic merit along with involvement/leaders activities during their enrollment at the University of Guelph. Financial need will considered only in the event of a tie. Apply to Student Financial Services, by April with a letter indicating involvement/extracurricular activity since entry to the Universit two academic and/or professional references, and a completed Financial Need Assessme
Dr. Samuel Dow	ning Stirk Memorial Award [C2066]	Form (N.A.F.) for International Students form. This award can only be held once by
award of \$250 an Donor(s): Qualification(s):	family of Dr. Samuel Downing Stirk. Application not required. One d a framed picture. <b>Dr. Gerald D. Stirk</b> 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*4850 (Health Management). 1 award of \$250	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 comple at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%, and is registered at the time application.         Amount       International of \$1000
		Amount: 1 award of \$1,000
	a Scholarship [C2065]	Invisible Fence Canine Behaviour & Training Scholarship [12164]
Donor(s): Qualification(s):	Dr. W.J. Stinson Scholarship Fund Committee. Application not required. Dr. W.J. Stinson Scholarship Fund Committee Student who has successfully completed Phase 4 of the D.V.M. program and who is the most proficient in bovine reproduction and obstetrics. 1 award of \$200	Apply to the Office of the Assistant Dean for Student Affairs, O.V.C., by January with a letter, a curriculum vitae, a one-page description of the project, and a support letter from the faculty member with whom the student proposes to work. The recipie will be chosen based on their involvement in a project which will provide education value to the student about animal behaviour and is most likely to have a direct positi immed undergo
Dr. Wendy Park Health [C2158]	ter Award in Clinical Dermatology, sponsored by Aventix Animal	impact on companion animal welfare. Donor(s): Invisible Fence Outlife (in (i)) D.V.M. students around the Discussion of the Discussion o
Dr. Wendy Parke	ntix Animal Health and recognizing the support of retired professor, er. Application not required. Aventix Animal Health	<i>Qualification(s):</i> D.V.M. students currently registered in Phases 1 or 2 who are pursin during the summer months, a research project related to the behavior of companion animals.
().	Student who has successfully completed Phase 4 of the D.V.M. program	Amount: 1 award of \$3,000
	who has the highest mark in the Dermatology rotation of the course VETM*4830 (Small Animal Clinics). 1 award of \$250	J.P.W. Gilman Prize [12022] Established by the colleagues and friends of Prof. J.P.W. Gilman, a teacher of Histold at O.V.C. from 1945 to 1975. Application not required.
Elsevier Prize [I		Donor(s): Friends and colleagues of J.P.W. Gilman
_	vier Science Canada. Application not required.	<i>Qualification(s):</i> Student who has completed Phase 1 of the D.V.M. program with t
2	Elsevier Science Canada	highest grade in the course VETM*3120 Veterinary Histology.Amount:1 award of \$200
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	James and Marjorie Pinkney Studentship Research Award [12125]
Amount:	VETM*4470 (Medicine and Surgery of the Dog and Cat). 1 prize of a subscription	This award was established by Dr. R. James Pinkney, a distinguished alumnus O.V.C.'37. Dr. Pinkney was a veterinary practitioner in Cooksville for over forty ye and received numerous awards for sportsmanship in agricultural competition
F.W. Schofield F	Prize in Pathology [C2059]	leadership in agriculture. Applications must be submitted by candidates and the
memory of Dr. F Korea in 1916 to t his entire career, the anticoagulant <i>Donor(s):</i> <i>Qualification(s):</i>	Ontario Veterinary College, Department of Pathobiology to honour the W. Schofield (O.V.C.'10), an honourable professional who attended teach bacteriology and hygiene at a mission school, did research through and to whom we owe the development and present extensive use of coumarin in all phases of medicine. Application not required. Dr. F.W. Schofield Student completing Phase 4 of the D.V.M. program with the highest ranking in Pathology.	<ul> <li>supervising faculty members to the Assistant Dean for Student Affairs, O.V.C., January 22.</li> <li>Donor(s): Dr. R. James Pinkney</li> <li>Qualification(s): Student in the D.V.M. program in Phases 1, 2, or 3 who is pursuir during the summer months, a research project related to the health welfare of animals. Students taking part in the Phase 3 externship program may receive a portion of the award for the non-externship portion of the summer.</li> <li>Amount: 1 award of \$4,000</li> </ul>

	beth Long D.V.M. Memorial Scholarship [C2088]
	scholarship was established by the family of Kathy Long D.V.M. plication not required.
Donor(s): Qualification(s). Amount:	<ul> <li>Mr. Doug Long</li> <li>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.</li> <li>1 award of \$1,000</li> </ul>
	al Scholarship in Surgery [C2027]
	presents this scholarship in memory of their classmate T.M. Kievit.
Application not	required.
Donor(s): Qualification(s). Amount:	<ul> <li>OVC '66</li> <li>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.</li> <li>1 award of \$100</li> </ul>
	ation Scholarship in LBGT Studies [10591]
and transgender pertaining to the will be given to by a record of vo- letter of recomm academic pursuit must have been of Apply to the Dea project, curricul	rovided to encourage research on the subject of lesbian, bisexual, gay ed (LBGT) peoples. The scholarship is based upon areas of research history, contributions, and issues by or about LBGT peoples. Preference an applicant who is involved in the LBGT community as demonstrated blunteer activities, active civil society memberships, or as attested by a nendation from a community group, or evidenced by related previous is. This scholarship may be awarded to a given student only once. Projects completed or research proposals accepted within the past calendar year. n of Arts by December 15th including the research proposal or completed um vitae, and any supporting letters referencing involvement in the ity and/or faculty support.
Donor(s):	Lambda Foundation and other donors
	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. 1 award of \$1,000
Leonard Conol	y Exchange Student Scholarship [10446]
professor of dr. Vice-President A by April 5, for vi Centre for Inter submission desc study at the part and (c) consister transcript of pro- <i>Donor(s)</i> :	students, faculty, staff and friends to honour Prof. Leonard Conolly, ama, Chair of the Department of Drama, 1981-88, and Associate Academic, 1988-1992. Apply to the Centre for International Programs isiting during the subsequent Fall or Winter semesters. Selection, by the national Programs, will be based on assessment of (a) a one-page ribing the significance of the student visiting Guelph to the program of ther exchange university (b) two faculty references of one-page each, at high performance in the course work completed, as documented by a gram grades to date, submitted by the home university. <b>Students, staff, faculty and friends of Dr. Leonard Connolly</b> : Full-time visiting exchange undergraduate or graduate 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). 1 award of \$1,000
Luke Thomson	Memorial Award [I2119]
	Catherine Thomson-McGhie (O.V.C.'91). Article submission to the
	Committee by January 31.
Donor(s): Qualification(s). Amount:	<ul> <li>Dr. Catherine Thomson McGhie (OVC '91)</li> <li>Student enrolled in the D.V.M. program who has submitted an article suitable for publication dealing with the Human-Companion Animal Bond and its relevance in veterinary practice. The article must be completed according to the Canadian Veterinary Journal format for Brief Communications.</li> <li>1 award of \$500</li> </ul>
	attray Proficiency Prizes [12054]
•	College in memory of Major James Rattray. Application not required.
Awarded by the	conege in memory of wajor james Katuay. Application not required.
Donor(s): Qualification(s).	James Rattray Estate : D.V.M. students completing each of Phases 1, 2, and 3 with the second highest class standings for the Phase.

Merial Canada	Inc. Award of Merit [C2051]
Donated by Meri	al Canada Inc. Application not required.
Donor(s):	Merial Canada Inc.
Qualification(s):	Student who has successfully completed Phase 4 of the D.V.M. program
	and who is judged to be the most proficient in small animal medicine
	in the course VETM*4830 (Small Animal Clinics).
Amount:	1 award of \$200, 1 commemorative plaque
Merial Canada	Inc. Scholarship [I2052]
Donated by Meri	al Canada Inc. Application not required.
Donor(s):	Merial Canada Inc.
Qualification(s):	Student having completed Phase 2 of the D.V.M. program and who
A	has the highest standing in the course VETM*3470 (Anesthesiology).
Amount:	1 award of \$200, 1 commemorative plaque
	n (OVC '78) Memorial Scholarship [C2016]
	e Class of O.V.C.'78, the Carrington Family and Friends in memory
	rington (O.V.C.'78). Application not required.
Donor(s):	Class of OVC '78
Qualification(s):	Student who has successfully completed Phase 4 of the D.V.M. program and who has demonstrated proficiency in Small Animal Medicine in
	the course VETM*4830 (Small Animal Clinics) and also demonstrated
	high standard of case care and compassion for his or her patients.
Amount:	1 award of \$500
Norman W. Sim	mons Memorial Award [I2124]
	emory of Norman W. Simmons. Application not required.
Donor(s):	The estate of Norman W. Simmons
	Student who has completed Phase 3 of the D.V.M. program with the
~ , ()	highest grade in the course VETM*4480 (Comparative Medicine).
Amount:	1 award of \$500
Novartis Anima	Health Canada Inc. Scholarship [I2079]
Donoted I N	
Donated by Nova	artis. Application not required.
	urtis. Application not required. Novartis
Donor(s):	
Donor(s):	Novartis
Donor(s): Qualification(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease).
Donor(s): Qualification(s): Amount:	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500
Donor(s): Qualification(s): Amount:	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease).
Donor(s): Qualification(s): Amount: Ontario Associa	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners Student who has successfully completed Phase 4 of the D.V.M. program
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Intario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners Student who has successfully completed Phase 4 of the D.V.M. program and who has demonstrated exceptional proficiency in bovine herd
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management).
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s): Qualification(s): Amount:	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the O Donor(s): Qualification(s): Amount: Ontario Associa	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [I2147]
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s): Qualification(s): Amount: Ontario Associa Presented by the	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [12147] Ontario Association of Swine Practitioners. Apply by letter, stating
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s): Qualification(s): Amount: Ontario Associa Presented by the swine industry ex	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [I2147] Ontario Association of Swine Practitioners. Apply by letter, stating perience to date, and include the required essay, to the Assistant Dean
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s): Qualification(s): Amount: Ontario Associa Presented by the swine industry ex for Student Affa	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [I2147] Ontario Association of Swine Practitioners. Apply by letter, stating
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s): Qualification(s): Amount: Ontario Associa Presented by the swine industry ex for Student Affa	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [I2147] Ontario Association of Swine Practitioners. Apply by letter, stating perience to date, and include the required essay, to the Assistant Dean irs, OVC, by January 15. Selection will be based on the best essay
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the O Donor(s): Qualification(s): Amount: Ontario Associa Presented by the swine industry ex for Student Affa submitted descrifi Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [I2147] Ontario Association of Swine Practitioners. Apply by letter, stating perience to date, and include the required essay, to the Assistant Dean irs, OVC, by January 15. Selection will be based on the best essay bing an issue facing the swine industry.
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the O Donor(s): Qualification(s): Amount: Ontario Associa Presented by the swine industry ex for Student Affa submitted descrifi Donor(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 <b>tion of Bovine Practitioners' Award [C2093]</b> Datario Association of Bovine Practitioners. Application not required. <b>Ontario Association of Bovine Practitioners</b> 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*4850 (Health Management). 1 award of \$500 <b>tion of Swine Practitioners' Prize [I2147]</b> Ontario Association of Swine Practitioners. Apply by letter, stating perience to date, and include the required essay, to the Assistant Dean irs, OVC, by January 15. Selection will be based on the best essay bing an issue facing the swine industry. <b>Ontario Association of Swine Practitioners</b> 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
Donor(s): Qualification(s): Amount: Ontario Associa Donated by the C Donor(s): Qualification(s): Amount: Ontario Associa Presented by the swine industry ex for Student Affa submitted descrit Donor(s): Qualification(s):	Novartis Student who has completed Phase 2 of the D.V.M. program with the highest grade in the small animal parasitology component of the course VETM*3450 (Principles of Disease). 1 award of \$500 tion of Bovine Practitioners' Award [C2093] Ontario Association of Bovine Practitioners. Application not required. Ontario Association of Bovine Practitioners 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*4850 (Health Management). 1 award of \$500 tion of Swine Practitioners' Prize [I2147] Ontario Association of Swine Practitioners. Apply by letter, stating perience to date, and include the required essay, to the Assistant Dean irs, OVC, by January 15. Selection will be based on the best essay bing an issue facing the swine industry. Ontario Association of Swine Practitioners 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.
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<ul> <li>program and has been selected by closenties as showing exceptional constraints of the Charl State of Dranies.</li> <li>provide the selected of</li></ul>	( )			-	
<ul> <li>compassion toward, and interest, maintails. The exciption must beak in Plane of S100</li> <li><i>Anomat</i>: I award of S300 GH Cettification of the University of Guelph basic and the Canadian Veterinary Medical Association Cettification Methods in Plane 11401.</li> <li><b>Per E and Cettification Networks and Plane 11401</b>.</li> <li><b>Per E and Cettification Networks</b></li> <li><b>Per E and Per E a</b></li></ul>			Quantification(s)	who has the highest average in VETM*4850 (Health Management).	
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Donated by the OTS Delta Club from the Ontario Veterinary College. Application or required.         expont. The vincing report will be eloseed in the basis of scientific content. Cleve Display Clevel Club Science Club Sc			to raise awareness of the C.V.M.A. Pet Food Certification Program. One award is presented in each Canadian veterinary college to a student that submits the best case report. The winning report will be selected on the basis of scientific content, relevance		
<ul> <li>Deta Club of Gampa Tan Signer Frankrarky <i>Qualification(s):</i> A student who has completed Planes 3 of the D.V.M. program. The contribution to Club affairs.</li> <li>Deta Club of Gampa Tan Signer Frankrarky <i>Qualification(s):</i> A student who has completed Planes 3 of the D.V.M. program. The contribution to Club affairs.</li> <li>Down(s): Club Signer Frankrarky Development of DVC A seisant Deam for Student Affairs <i>Down(s):</i> Club Signer Frankrarks Students of Rules 2 of the D.V.M. program with satisfacture account of Club Affairs.</li> <li>Down(s): Club Signer Frankrarky Development of DVC A seisant Deam for Student Affairs <i>Down(s):</i> Club Club Club Signer Student Club Signer <i>Club Club Club Club Club Signer</i> (Club Signer Club Signer)</li> <li>Down(s): Club Club Club Club Signer Student Signer Student</li></ul>					
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Ottaws-Carleton 1983 International Ploughing Match (OVC) Scholarships (12094)         academic standing.           Apply to Student Transchal Services by April 1 with a completed Transchal Need Scholarship (NA-F) and a letter conding extravariational extinction activities and Theorem Presents two prizes to students (2005)         Place Animal Health Company Prizes (2005)           Datary C1:         Ottaws-Carleton International Ploughing Match (Ower) who has a minimum cumulative average of 10 the D/ MA, program and who has a minimum cumulative average of 10 the D/ MA, program and who has a cumulative average of \$10,000         Place Animal Health Charge Canada Inc. presents two prizes to students of the current of \$10,000           OVC 755 Scholarship in Memory of Aki Sasage (2002)         Enter Animal Health, Place Canada Inc. domates two scholarships to students in the course VETM+4800 (args Animal Chines).           Datary C1:         The densmits and colleages of Dr. Aki Sasage (2007 75 Longer Canada Chine and extension on required.           Datary C1:         The densmits and colleages of Dr. Aki Sasage (2007 75 Longer Canada Chine Argo and scholarship to Standarship Distandars in the course VETM+4800 (args Arianal Chine and etclines).           Datary C1:         The densmits and colleages of Dr. Aki Sasage (2007 75 Longer Canada Chine Argo and Sasadi Margo and Place Argo an		*	Donor(s):	Canadian Veterinary Medical Association	
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<ul> <li>Apply to Studen Financial Services by April 1 with a completed Financial Neasonsment Form (M. AF) and a letter outdring activation structural activities.</li> <li><i>Donot(s):</i> <b>Ottawa-Carloto International Ploughing Match Committer 1983</b></li> <li><i>Qualification(s):</i> Students moth Region Of Guava-Carleton who has a minimum cumulative average of 1 of the D V.M. program and who has a minimum cumulative average of <i>P</i>. National intervities and financial need will be considered.</li> <li><i>Amount:</i> I avail of \$1.00 (Small Animal Clinics).</li> <li><i>Donot(s):</i> <b>Price Company of Canal</b></li> <li><i>Constitutes of the Company of Canal</i></li> <li><i>Constitutes of the Company of Canal</i></li></ul>	Ottawa-Carletor	n 1983 International Ploughing Match (OVC) Scholarships [I2094]	Amount.	•	
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gualification(s):         Student from the Region of Otawas-Carleton who has completed Phase of 70%. Participation in extracurricular activities and financial neod           or 70%. Participation in extracurricular activities and financial neod         Monomities activities and of 5100 (Garge Annial Clinics).           OVC '755 Sekolarship in Memory of Aki Sasage (C2092)         Earbhished by classmates and colleagues of Dr. Aki Sasage (C2092)           Earbhished by classmates and colleagues of Dr. Aki Sasage (O.V. C.75), na ew Canadian of exceptional character and sensitivity, with a keen interest in clinical veterinary program with the highest standing in course VETM '4480 (Clarge Annial Clinics).           Patholished by classmates and colleagues of Dr. Aki Sasage (O.V. C.75), na ew Canadian Patholished Vice Sasage (O.V. C.75), memory of the events of the veterinary program with the highest standing in course VETM '4400 (Veterinary Annotation for required.           Dator(s):         The classmates and colleagues of Aki Sasage, O.V. C.75           Qualification(s):         Student who has veaccesfully completed Phase 4 of the veterinary program with the highest standing in course VETM '4400 (Veterinary Class)           Anoant:         1 award of 5300, and one 3 dplace award of 5200.           OVC Alumni Association Particican per required.         Drawsitis           Drawsitis:         Drawsitis:           OVC Alumni Association Application not required.         Drawsitis:           Qualification(s):         Student who has vecarescriptic complexed Phases 1, c, and 3 with the highest rass standit a lagin </td <td></td> <td>-</td> <td></td> <td></td>		-			
<ul> <li>I of the D. V.M. program and who has a minimum cumulative average will be considered. A proceeding of the D. V.M. second:</li> <li>I avard of S100 (Small Annates in the event of the D. V.M. program and who have successfully completed Phase 4 of the D. V.M. program with the lighest standing in course VETM+4840 (Large Animal China e Course VETM+4800 (Large Animal China e Course e VETM+4800 (Large Animal e Lar</li></ul>	().	0 0	program. Applic	cation not required. One award of \$150 (Large Animal Clinics) and one	
will be considered.           Annuant:         Laward of \$1.000           OVC 75 Scholarship in Memory of Aki Sasage (O.C.75), a new Canadian of exceptional character and sensates proficiency in large animal medicine in the course VETM 4840 (Large Animal Clinics).           Annuant:         Laward of \$1.000           OVC 75 Scholarship in Memory of Aki Sasage (O.C.75), a new Canadian of exceptional character and sensation of required.         Memory: Interest and colleagues of Aki Sasage, OVC 75           Qualification(s):         Students who has successfully completed Phase 4 of the veterinary Extensibility.         Memory: Interest and colleagues of Aki Sasage, OVC 75           Qualification(s):         Students who has successfully completed Phase 4 of the veterinary extensibility.         DVC Totami Association Application not required.           OVC Alumni Association Application not required.         Domortig:         OVC Alumni Association Application not required.           Domortig:         OVC Alumni Association Application not required.         Domortig:         OVC Alumni Association Application not required.           Domortig:         OVC Alumni Association Application not required.         Domortig:         OVC Alumni Association Application not required.           Domortig:         OVC Alumni Association Application not required.         Domortig:         Coulificationify: Students who has completed Phase 1 of the D.V.M. program with the highest standing for the Phase.         Domortig:         CovC Sp Fitz Prize [U097]         Dom	-	1 of the D.V.M. program and who has a minimum cumulative average			
Amount:         1 award of \$1.00           OVC 75 Scholarship in Memory of Aki Sasage (C202)           Established by classmates and colleagues of Dr. Aki Sasage (OV.C.75), a new Canadian of exceptional character and sensitivity, with a keen interest in clinical veterinary medicine. Application not required.           Donor(s):         The classmates and colleagues of Aki Sasage, OVC.75 Qualification(s): Student who has successfully completed Phase 4 of the veterinary program with the highest standing in course VETM*4900 (Veterinary Amount:         1 award of \$10.1 award of \$10.1 award of \$10.0           OVC Alumni Association on required.         Prizer Scholarship and Beadership.         Prizer Scholarship and Beadership.           Amount:         1 award of \$200, one 2nd place award of \$200, and en 3rd place award of \$200, one 2nd place award of \$200, one 2nd place award of \$200, and en 3rd place award of \$200.         Prizer Animal Health, Prizer Canada Inc. donates two scholarships to students in DV-VM. program. Who have completed Phase 3 of the D.V.M. program. Who have the three highest program avereges. Amount:         1 award of \$200, and en 3rd place award of \$200.           OVC Alumni Association Qualification(s): Student who has coccestfully completed Phases 1, 2, and 3 with the highest class standing for the Phase. Amount:         1 award of \$100.1 award of \$200           OVC Sprit Prize [10409]         Provided by the O.V.C. Alumni Association. Application not required. Domor(s):         OVC Alumni Association. Application not required. Domor(s):           OVC Alumni Association. Application not required. Domor(s):         Stoolen C.F. Edgett (OVC 1906) (audificatio		1			
OVC '75 Scholarship in Memory of Aki Sasage (C2092)           Established by classmass and colleagues of Dr. Aki Sasage (OV.C.75), a new Canadin of exceptional character and sensitivity, with a keen interest in clinical veterinary medicine. Application not required.           Domor(s):         The classmass and colleagues of Aki Sasage (OV.C.75           Qualification(s): Student who has successfully completed Phase 4 of the veterinary porgram with the highest standing in course VETM*490 (Veterinary Externship).         Pfizer Scholarship (12049)           OVC Alumni Association Proficiency Prizes (Convocation) (C2045)         Pfizer Scholarship (12049)           Presented by the O.V.C. Alumni Association Application not required.         Domor(s):         Pfizer Scholarship (12071)           Qualification(s): Students who have successfully completed Phase 4 of the D.V.M. program with to highest standing in vetworkstudy visit and strate state statistical students who have completed Phase 1 of the D.V.M. program with to highest standing in VETM*3070 (Veterinary Constrate, Robert Walk Application not required.           Domor(s):         OVC Alumni Association Proficiency Prizes (Convocal Della)           Presented by the O.V.C. Alumni Association Application not required.         Domor(s):           Domor(s):         DVC Alumni Association Application not required.           Domor(s):         DVC Alumni Association Application not required.           Domor(s):         DVC Alumni Association Application not required.           Domor(s):         DVC Alumni Association Application not requ			Qualification(s)		
Extablished by classmats and colleagues of Dr. Aki Sasage (O. V.C. 75), a new Canadian <ul> <li>of exceptional character and sensitivity, with a keen interest in clinical veterinary             deficience prises of Aki Sasage (OV C? 5             Qualification or required.             Domor(s): The classmates and colleagues of Aki Sasage, OV C? 5             Qualification or required.             Domor(s): Student who has successfully completed Phase 4 of the veterinary             Preserved by the O.V.C. Alumni Association not required.             Domor(s): OV C. Anumi Association not required.</li></ul>				animal medicine in the course VETM*4840 (Large Animal Clinics)	
of exceptional character and sensitivity, with a keen interest in clinical veterinary medicine. Application not required.         Donor(s):       The classmates and colleagues of Aki Sasage, OVC 75         Qualification(s):       Student who has accounted with the highest standing in course VETM*4900 (Veterinary medicine. Application not required.         Amount:       1 award of 5100.         Amount:       1 award of 5100.         Prevented by the O V.C. Alumni Association. Application not required. One 1st place award of 5200.       Prizer Candanship al clearship.         OVC Alumni Association. Application not required.       Domor(s):       Prizer Manuel Veterinary mode of 5200.         OVC Alumni Association. Application not required.       Domor(s):       OVC C Numi Association. Application not required.         Domor(s):       OVC Alumni Association. Application not required.       Domor(s):       OVC C Numi Association. Application not required.         Domor(s):       OVC Alumni Association. Application not required.       Domor(s):       OVC C Splich Prize [10409]         Presented by the O.V.C. Alumni Association. Application not required.       Domor(s):       Cover C Splich Prize [10409]         Prizer Schalaship al cleared by the O.V.C. Alumni Association. Application not required.       Domor(s):       Cover C Splich Prize [10409]         Prevented by the O.V.C. Alumni Association. Application not required.       Domor(s):       Cover Splich Prize [10409]					
medicine. Application not required.         Domor/s):       The clasmates and colleagues of Aki Sasage, OVC '75         Qualification(s):       Student who has successfully completed Phase 4 of the veterinary program with the highest standing in course VETM*4900 (Veterinary Annuari: 1 award of \$700         Amount:       1 award of \$700         OVC Alumni Association Proficiency Prizes (Convocation) [C2045]       Presented by the 0.V.C. Alumni Association. Application not required. One 1st place award of \$300, and one 3rd place award of \$200.         Domor(s):       OVC Alumni Association         Over Alumni Association       Prizes (In-course) [12048]         Presented by the 0.V.C. Alumni Association       Prizes (In-course) [12048]         Over Site (The Tage (In-course) [12048]       Presented by the 0.V.C. Alumni Association         Qualification(s):       Student who has completed Phase 1 of the D.V.M. program with the highest class standing for the Phase.         Qualification(s):       DV.M. student in Phase.         Over Site (The Tage (In-course) [12048]         Presented by the 0.V.C. Alumni Association       Application not required.         Domor(s):       OVC Alumni Association         Qualification(s):       Student who has completed Phase 1 of the D.V.M. program with the highest standing in VETM*3070 (Veterinary Anatomy).         Presented by the 0.V.C. Alumni Association       Application not required.         Domor(s): <t< td=""><td>of exceptional cl</td><td>haracter and sensitivity, with a keen interest in clinical veterinary</td><td>Amount:</td><td></td></t<>	of exceptional cl	haracter and sensitivity, with a keen interest in clinical veterinary	Amount:		
Domor(s):         The classmates and callegues of ALS basing, OVC '75           Qualification(s):         Student who has successfully completed Phase 4 of the veterinary program with the highest standing in course VETM*4900 (Veterinary Amount: 1 award of \$200.           OVC Alumni Association Proficiency Prizes (Convocation) [C2045]           Presented by the O.V.C. Alumni Association. Application not required. Doe 1st place award of \$200, award of \$200.           Domor(s):         Filzer Canada Inc. donates two scholarships to students in D.V.M. program. who have successfully completed Phase 4 of the D.V.M. program, who have successfully completing Phase 4 of the D.V.M. program and sociation. Application not required. Domor(s):           OVC Alumni Association. Application not required. Domor(s):         OVC Alumni Association. Application not required. Domor(s):           OvC Alumni Association. Application not required. Domor(s):         OVC Alumi Association. Application not required. Domor(s):           Domor(s):         OVC Alumi Association. Application not required. Domor(s):         OVC Alumi Association Application not required. Domor(s):           OvC Spirit Prize [10469]         Freize [10469]           Previeted by the O.V.C. Alumi Association. Application on trequired. Domor(s):         Stolent who has completed Phase 1. award of \$100           OVMA Animal Behaviour and Welfare Award [12095]         Previet of the D.V.M. program based on contributions to the basis of a class vote at the end of Phase 1. award of \$250 and a plaque           OvMata naima behaviour and Velfare Award [12095]         P		*			
D.V.M. program. with the highest standing in course VETM*4000 (Veterinary Extensibil).         Amount:       1 award of \$700         OVC Alumni Association Proficiency Prizes (Convocation) [C2045]       Presented by the O.V.C. Alumni Association. Application not required. One 1st place award of \$500, and one 3rd place award of \$200.         Domor(s):       OVC Alumni Association (2tudification(s): Students who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages.         Amount:       1 award of \$500.         OVC Alumni Association (2tudification(s): Students who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages.         Amount:       1 award of \$500.         OVC Alumni Association Qualification(s): Students who have successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.         Amount:       1 award of \$100         OVC Spirit Prize [10469]       In to Aution Association. Application. Application not required.         Provided by the O.V.C. Alumni Association Qualification(s): Student who has completed Phase 1 of the D.V.M. program based on contributions to the O.V.C. Community. The recipient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Wetfare Award [12095]         OvMA Animal Behaviour and Vetfare Award [12095]         Presented by the Outario Veterinary Medical Associntion. Anount:       1 award of \$100					
Amount:       1 award of \$700         OVC Alumni Association Proficiency Prizes (Convocation) [C2045]         Presented by the O.V.C. Alumni Association       Oue 1st place award of \$200.         Domor(s):       OVC Alumni Association       Program. Who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages.       Amount:       2 award of \$200.         OVC Alumni Association       Projection Proficiency Prizes (Locourse) [12048]       Presented by the O.V.C. Alumni Association. Application not required.         Ownum:       3 award of \$200.       Domor(s):       OVC Alumni Association       Application not required.         Domor(s):       OVC Alumni Association       Application not required.       Domor(s):       Downor(s):         OVC Spirit Prize [10469]       Provided by the O.V.C. Alumni Association       Application not required.         Provided by the O.V.C. Community and his or her demonstration of leadership, sportsmanship, and the ability to get and keep his or her classmates in workstudy visit and a letter from the hosts to the O.V.C. awards Committee by the O.V.C. Community. The recipient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$200       Over Alumni Association. Application not required.         Domor(s):       Colarification(s): Student who has completed Phase 1 of the D.V.M. program based on constributions to the O.V.C. community and his or her demonstration of leadership, sportsmanship, and the ability to get and k					
OVC Alumi Association Proficiency Prizes (Convocation) [C2045]         program, the recipients will be selected by his or her classmates of the basis of scholarship and leadership.           award of \$500, one 2nd place award of \$300, and one 3rd place award of \$200.         Domor(s):         Qualification(s): Students who have the three highest program averages.           Amount:         1 award of \$500, 1 award of \$200.         Domor(s):         OVC Alumni Association Proficiency Prizes (Incourse) [12048]           Presented by the O.V.C. Alumni Association. Application not required.         Domor(s):         OVC Alumni Association. Application not required.           Domor(s):         OVC Alumni Association. Application not required.         Domor(s):         OVC C''''''           Presented by the O.V.C. Alumni Association. Application not required.         Domor(s):         Contario Vectrinary Conservice.           Provided by the O.V.C. Alumni Association. Application not required.         Domor(s):         Royal Canadian Army Veterinary Corps Prize [12097]           In 1232, Colonel C.E. Edgett (OVC. 1906), donated the funds from the proceeds of sale of a horse ambulance, donated by the Royal Canadian Army Veterinary Corps Prize (12097)           Provided by the O.V.C. Alumni Association         Projected on the eavier of the C.Y.C. Awards Community. The recipient will be selected on the overvice ward of S200           OVC Spirt Prize [14090]         Provided by the O.V.C. Alumni Association Application not required.           Domor(s):         Coharto Veterinary Medic					
OVC Alumin Association Frofficiency Frizes (Incourse) [12045]       ihe basis of scholarship and leadership.         Amount:       1 award of \$500, one 2nd place award of \$300, and one 3rd place award of \$200.         Domor(s):       OVC Alumin Association         Qualification(s):       Students who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages.         Amount:       1 award of \$500, 1 award of \$300, 1 award of \$200         OVC Alumin Association Profficiency Prizes (Incourse) [12045]         Presented by the O.V.C. Alumni Association Application not required.         Donor(s):       OVC Alumin Association for the Phase.         Qualification(s):       Student who has completed Phase 1 of the D.V.M. program with the highest class standing for the Phase.         Amount:       3 awards of \$500         Provided by the O.V.C. Alumni Association Application not required.         Donor(s):       The Otario Veterinary College Alumni Association (Public Phase 1, community and hiss or her demonstration of leadership, sportsmanship, and the ability to get and keep his or her classmates involved in the O.V.C. community. The receiptient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$250         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinary Medical Association Application not required.         Domor(s):       Outario Veterinary Medical Association Applicati			Qualification(s)		
<ul> <li>award of \$500, one 2 and place award of \$300.</li> <li>Donor(s): OVC Alumni Association</li> <li>Qualification(s): Students who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages. Amount: 1 award of \$300, 1 award of \$100</li> <li>OVC Shirt Prize [Id49]</li> <li>Provided by the O.V.C. Alumni Association Application not required. Donor(s): The Ontario Veterinary College Alumai Association Qualification(s): Student who has completed Phase 1 of the D.V.M. program planni a work/study visit an a letter from the host to the O.V.C. ownumity and has on the densing in vereinary Corg. Prize [1213]</li> <li>OVCMA Animal Behaviour and Welfare Award [12095]</li> <li>Presented by the Ontario Veterinary Medical Association Qualification(s): Student who has completed Phase 2 of the D.V.M. program with the highest program and weight and the award of \$200</li> <li>Over Amount: 1 award of \$200</li> <li>Over Amount: 1 award of \$200</li> <li>Schering-Plough Canada has established this prize as part of their commitment veterinary education. Application not required. D</li></ul>					
Donor(s):         OVC Alumni Association           Qualification(s):         Students who have successfully completed Phase 4 of the D.V.M. <i>mount:</i> 1 award of \$500, 1 award of \$300, 1 award of \$200           OVC Alumni Association Proficiency Prizes (In-course) [12048]           Presented by the O.V.C. Alumni Association Application not required.           Donor(s):         OVC Alumni Association application not required.           Donor(s):         OVC C. Alumni Association. Application not required.           Donor(s):         The Ontario Veterinary Congram aware of \$500           OVC Spirit Prize [10469]         The Ontario Veterinary Congram based on contributions to the O.V.C. community and his or her demonstration of leadership, soporstamaship, and the ability to get and keep his or her classmates involved in the O.V.C. community. The recipient will be selected on the basis of a class vote at the end of Phase 1.           Amount:         1 award of \$100           OVMA Animal Behaviour and Welfare Award [12095]           Presented by the Ontario Veterinary Medical Association Application not required. Donor(s):         Ontario Veterinary Medical Association Application not required. Anount:           Donor(s):         Ontario Veterinary Medical Association Application not required. Anount:           Amount:         1 award of \$250			Amount: 2 awards of \$600		
Qualification(s): Students who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages.       This award of \$500,1 award of \$500,1 award of \$500,1         Amount:       1 award of \$500,1 award of \$200         OVC Alumni Association Proficiency Prizes (In-course) [12048]       Donor(s):         Presented by the O.V.C. Alumni Association       Application(s): Students who has completed Phase 1, 2, and 3 with the highest class standing for the Phase.         Amount:       1 award of \$1500         OVC Alumni Association. Application not required.         Donor(s):       DV.M. tudents successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.         Amount:       1 award of \$1500         OVC Spirit Prize [10469]       Provided by the O.V.C. Alumni Association         Provided by the O.V.C. Community and his or her classmates involved in the D.V.M. program based on contributions to the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinary Medical Association Qualification(s): Student who has completed Phase 2 of the D.V.M. program with the highest grade in the amini behaviour component of the proposal. Selection will be based on the merit of the proposal. accedemic performance.         Amount:       1 award of \$300         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinar		· ·			
Amount:       1 award of \$500, 1 award of \$200         OVC Alumni Association Proficiency Prizes (In-course) [I2048]         Presented by the O.V.C. Alumni Association and required.         Domor(s):       OVC Alumni Association         Qualification(s):       D.V.K. students successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.         Amount:       1 award of \$500         OVC Spirit Prize [I0469]       Provided by the O.V.C. Alumni Association.         Provided by the O.V.C. Calumni Association.       Application not required.         Donor(s):       The Ontario Veterinary College Alumni Association       Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$250         Presented by the Ontario Veterinary Medical Association.       Application not required.         Donor(s):       Ontario Veterinary Medical Association.         Qualification(s):       Student who has completed Phase 2 of the D.V.M. program with the wights of a class vote at the end of Phase 1.         Amount:       1 award of \$250         Presented by the Ontario Veterinary Medical Association.       Application not required.         Donor(s):       On		Students who have successfully completed Phase 4 of the D.V.M.			
OVC Alumni Association Proficiency Prizes (In-course) [I2048]         Presented by the O.V.C. Alumni Association. Application not required.         Donor(s):       OVC Alumni Association. Application not required.         Qualification(s): D.V.M. students successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.       I award of \$150         Romunt:       3 awards of \$500         OVC Spirit Prize [10469]       In 1923, Colonel C.E. Edgett (O.V.C. 1906), donated the funds from the proceeds of sale of a horse ambulance, donated by the RSPCA for use in World War I, to estable the Royal Canadian Army Veterinary Corps Prize. (Applicants must submit a plan the work/study visit and a letter from the host to the O.V.C. Awards Committee by end of Phase 1.         Donor(s):       The Ontario Veterinary College Alumni Association         Qualification(s):       Student who has completed Phase 1 of the D.V.M. program based on contributions to the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [I2095]         Presented by the Outario Veterinary Medical Association. Application not required. Donor(s):       Schering-Plough Canada Leadership Prize [1213]         Schering-Plough Canada Leadership Prize Ada (Internation and a class vote, in the minimal behaviour component of the course VETM*3410 (Health Management II).       Schering-Plough Canada and sestablished this prize as part of their commitment veterinary education not required.         Donor(s):       Sudent who has completed Phas					
Presented by the O.V.C. Alumni Association. Application not required.       Donor(s):       OVC Alumni Association         Qualification(s):       D.V.M. students successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.       Amount:       1 award of \$150         OVC Spirit Prize [10469]       In 1923, Colonel C.E. Edgett (O.V.C. 1906), donated the funds from the proceeds of sale of a horse ambulance, donated by the RSPCA for use in World War I, to estable the Royal Canadian Army Veterinary Corps Prize. Applicants must submit a plan the work/study visit and a letter from the host to the O.V.C. Awards Committee by end of Phase 1.         Donor(s):       The Ontario Veterinary College Alumni Association       Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.       Donor(s):       Colonel C.E. Edgett (OVC 1906)         Qualification(s):       Student who has completed Phase 1 of the D.V.M. program based on contributions to the O.V.C. community. The recipient will be selected on the basis of a class vote at the end of Phase 1.       Donor(s):       Colonel C.E. Edgett (OVC 1906)         Qualification(s):       Student who has completed Phase 1.       The proposal. Selection will be based on the merit of the proposal a cademic performance.         Donor(s):       OvtMA Animal Behaviour and Welfare Award [12095]       Schering-Plough Canada has established this prize as					
Donor(s):       OVC Alumni Association         Qualification(s):       D.V.M. students successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.         Amount:       3 awards of \$500         OVC Spirit Prize [10469]         Provided by the O.V.C. Alumni Association. Application not required.         Donor(s):       The Ontario Veterinary College Alumni Association         Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinary Medical Association.       Application not required.         Donor(s):       Ontario Veterinary Medical Association.         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250		• • • • •			
Qualification(s): D.V.M. students successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.       Amount:       1 avard of \$500         OVCS pirit Prize [10469]       In 1923, Colonel C.E. Edgett (O.V.C. 1906), donated the funds from the proceeds of ale of a horse ambulance, donated by the RSPCA for use in World War 1, to estable the Royal Canadian Army Veterinary Corps Prize. Applicants must submit a plan the work/study visit and a letter from the host to the O.V.C. Awards Committee by end of Phase 2.         Donor(s):       The Ontario Veterinary College Alumni Association       Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.       Donor(s):       Colonel C.E. Edgett (OVC 1906)         Qualification(s): Student who has completed Phase 1.       a work/study visit to an equine facility during the summer between second and third year. In keeping with the original terms of the avard [12095]         Presented by the Ontario Veterinary Medical Association. Application not required. Donor(s):       Outent of \$100         Outlification(s): 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*3410 (Health Management II).         Amount:       1 award of \$250         Amount:       1 award of \$250	5				
Amount:       3 awards of \$500         OVC Spirit Prize [I0469]       Provided by the O.V.C. Alumni Association not required.         Donor(s):       The Ontario Veterinary College Alumni Association         Qualification(s):       Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [I2095]         Presented by the Ontario Veterinary Medical Association       Application not required. One award of \$250 and a plaque         Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250	( - ) -		-		
OVC Spirit Prize [10469]         Over Spirit Prize [10469]         Provided by the O.V.C. Alumni Association. Application not required.         Donor(s):       The Ontario Veterinary College Alumni Association         Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinary Medical Association.         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250		•			
<ul> <li>Provided by the O.V.C. Alumni Association. Application not required.</li> <li>Donor(s): The Ontario Veterinary College Alumni Association</li> <li>Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.</li> <li>Amount: 1 award of \$100</li> <li>OVMA Animal Behaviour and Welfare Award [I2095]</li> <li>Presented by the Ontario Veterinary Medical Association. Application not required. One award of \$250 and a plaque</li> <li>Donor(s): Ontario Veterinary Medical Association</li> <li>Qualification(s): 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*3410 (Health Management II).</li> <li>Amount: 1 award of \$250</li> </ul>			the Royal Canad	dian Army Veterinary Corps Prize. Applicants must submit a plan for	
Donor(s):       The Ontario Veterinary College Alumni Association         Qualification(s):       Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.       Donor(s):       Colonel C.E. Edgett (OVC 1906)         Amount:       1 award of \$100       a work/study visit to an equine facility during the summer between second and third year. In keeping with the original terms of the awar the care and welfare of horses should be a significant component of the proposal. Selection will be based on the merit of the proposal a academic performance.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [I2095]         Presented by the Ontario Veterinary Medical Association         Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250	the work study visit and a retter from the host to the O.V.C. Awards committee by				
Qualification(s): Student in Phase 1 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. The recipient will be selected on the basis of a class vote at the end of Phase 1.       Qualification(s): Student who has completed Phase 1 of the D.V.M. program planning a work/study visit to an equine facility during the summer between second and third year. In keeping with the original terms of the away the care and welfare of horses should be a significant component of the proposal. Selection will be based on the merit of the proposal a academic performance.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinary Medical Association. Application not required. One award of \$250 and a plaque         Donor(s):       Ontario Veterinary Medical Association         Qualification(s): 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*3410 (Health Management II).         Amount:       1 award of \$250	-			Colonel C.E. Edgett (OVC 1906)	
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. The recipient will be selected on the basis of a class vote at the end of Phase 1. Amount: 1 award of \$100a work/study visit to an equine facility during the summer between second and third year. In keeping with the original terms of the awa the care and welfare of horses should be a significant component of the proposal. Selection will be based on the merit of the proposal a academic performance.OVMA Animal Behaviour and Welfare Award [12095]Presented by the Ontario Veterinary Medical Association. Award of \$250 and a plaqueSchering-Plough Canada Leadership Prize [12133]Donor(s):Ontario Veterinary Medical Association Qualification(s):Schering-Plough Canada Leadership Prize [12133]Schering-Plough Canada Uter M*3410 (Health Management II). Amount:1 award of \$25030 fthe D.V.M. program and w based on class nomination and a class vote, in the minds of his or 1 fellow students continues to demonstrate outstanding leadership, versatility of interests and involvement in community affairs, both	().				
involved in the O.V.C. community. The recipient will be selected on the basis of a class vote at the end of Phase 1.       the care and welfare of horses should be a significant component of the proposal. Selection will be based on the merit of the proposal a academic performance.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [12095]         Presented by the Ontario Veterinary Medical Association. Application not required. One award of \$250 and a plaque         Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250		the O.V.C. community and his or her demonstration of leadership,		a work/study visit to an equine facility during the summer between	
the basis of a class vote at the end of Phase 1.         Amount:       1 award of \$100         OVMA Animal Behaviour and Welfare Award [I2095]         Presented by the Ontario Veterinary Medical Association. Application not required. One award of \$250 and a plaque         Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250				second and third year. In keeping with the original terms of the award, the care and welfare of horses should be a significant component of	
Amount:       1 award of \$100       academic performance.         OVMA Animal Behaviour and Welfare Award [I2095]       academic performance.         Presented by the Ontario Veterinary Medical Association. Application not required. One award of \$250 and a plaque       academic performance.         Donor(s):       Ontario Veterinary Medical Association       Schering-Plough Canada Leadership Prize [I2133]         Schering-Plough Canada has established this prize as part of their commitment veterinary education. Application not required.       Donor(s):         Qualification(s):       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*3410 (Health Management II).       Donor(s):       Schering-Plough Canada         Amount:       1 award of \$250       Schering-Plough Canada has established this prize as part of their commitment veterinary education. Application not required.         Donor(s):       Schering-Plough Canada has completed Phase 3 of the D.V.M. program and we based on class nomination and a class vote, in the minds of his or 1 fellow students continues to demonstrate outstanding leadership, versatility of interests and involvement in community affairs, both		• •		the proposal. Selection will be based on the merit of the proposal and	
OvinA Annual Benaviour and wenare Award [12095]         Presented by the Ontario Veterinary Medical Association. Application not required. One award of \$250 and a plaque         Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250    Schering-Plough Canada Leadership Prize [I2133] Schering-Plough Canada has established this prize as part of their commitment veterinary education. Application not required. Donor(s):    Schering-Plough Canada Leadership Prize [I2133] Schering-Plough Canada has established this prize as part of their commitment veterinary education. Application not required. Donor(s): Schering-Plough Canada 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 1 fellow students continues to demonstrate outstanding leadership, versatility of interests and involvement in community affairs, both				academic performance.	
award of \$250 and a plaque       Schering-Plough Canada has established this prize as part of their commitment veterinary dedical Association         Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).         Amount:       1 award of \$250	OVMA Animal	Behaviour and Welfare Award [I2095]	-		
Donor(s):       Ontario Veterinary Medical Association         Qualification(s):       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*3410 (Health Management II).       Schering-Plough Canada         Amount:       1 award of \$250	•				
Qualification(s):       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*3410 (Health Management II).       Schering-Plough Canada         Amount:       1 award of \$250		· ·			
Amount:       1 award of \$250         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 leftlow students continues to demonstrate outstanding leadership, versatility of interests and involvement in community affairs, both			•		
Amount:       1 award of \$250       fellow students continues to demonstrate outstanding leadership, versatility of interests and involvement in community affairs, both					
versatility of interests and involvement in community affairs, both				based on class nomination and a class vote, in the minds of his or her	
	Amount:	1 award of \$250			
				•	
Amount: 1 award of \$750			Amount:	1 award of \$750	

Schering-Ploug	h Canada Prize in Bovine Reproduction [C2132]	W.N. Vaughan Medal [C0299]
	Canada has established this prize as part of their commitment to	Prospective candidates will be nominated by Senators and the medal winner will be
	tion. Application not required.	chosen by a committee selected by the Striking Committee. The medal will be awarded
Donor(s):	Schering-Plough Canada	at Convocation in June. Application not required.
Qualification(s):	Student successfully completing Phase 4 of the D.V.M. program who has exhibited outstanding performance in the theriogenology and	Donor(s): <b>Friends of Walter N. Vaughan</b> <i>Qualification(s):</i> Student senator who has high academic standing and who has made a
	ruminant field service rotations during his or her final year.	substantial contribution to student life and to the University, particularly
Amount:	1 award of \$750	through involvement in and commitment to Senate activities.
Stephanie Wilko	en Volunteer Award [I0449]	Amount: 1 Medal
	ne Wilken family in memory of Stephanie Wilken, BA 1995. Apply to	Wyeth Case Report Awards [C2111]
at the Wellness (	I Services with letter indicating the kind and extent of volunteer activities Centre by October 1. Selection committee is the Senate Committee on commendation of the Student Wellness Educator at the Wellness Centre.	Donated by Wyeth Veterinary Laboratories. Applicants must submit a case report to the Coordinator of the Externship Course, using the prescribed format before the date stated in the course outline.
Donor(s):	Bev and Darlene Wilken	Donor(s): Wyeth Laboratories
Qualification(s):	Student registered in any undergraduate degree program, who has been	<i>Qualification(s):</i> Students who have successfully completed Phase 4 of the D.V.M.
	a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all	program. The recipients will be selected on the basis of the quality of the case report required for completion of course VETM*4900
	courses to date and volunteer work at the Wellness Centre.	(Veterinary Externship). One award will be given for the best case
Amount:	1 award of \$1,000	report in production animals (swine, beef, or dairy) and the other award
United Steelwor	kers Local 4120 Scholarship [I0293]	will be given for the best case report for companion animals.Amount:2 awards of \$500
	t Financial Services, by January 31.	In-course Scholarships with Financial Need
Donor(s): Qualification(s):	United Steelworkers LU4120 Student who is a member or former member, or who is from the	Euclid-Hitachi Scholarships [14517]
zuangreanon(s).	immediate family of a member of United Steelworkers LU 4120, and	Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario
	who is entering semester 2, 3, or 4 of a degree or diploma program in	government's OSOTF program, to assist students with financial need to continue their
	the Winter semester. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class	studies as full-time students. Apply with a completed Financial Need Assessment Form
	standing in his or her previous full-time semester, provided that a	(N.A.F.) to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS AWARD
	minimum of 70% standing is obtained.	Donor(s): Euclid-Hitachi of Canada Ltd.
Amount:	1 award of \$1,000	Qualification(s): Students with a minimum cumulative average of 70% with
	d Van Der Hoeven Memorial Scholarship [10296]	demonstrated financial need. Additionally, students must meet the
	be made by nominations signed by 4 currently registered students	government-mandated terms for receipt of an OSOTF award (see
forwarded to Stu semester.	Ident Financial Services by April 1. Presentations are made in the Fall	General Statements on Awards). Amount: 2 awards of \$1,500
Donor(s):	Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven	George A. Gray O.A.C. '51 Varsity Scholarships [10487]
	& family	Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a
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	great player of the game. Apply to Student Financial Services with a letter describing
	a minimum of 70% standing. Selection will be made on the basis of	on- and off-campus extra-curricular activities and a completed Financial Need Assessment
	participation in university activities and in the student's home	Form (N.A.F.) by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement outlining your leadership involvement. Selection will
Amount	community as well as qualities of leadership, ambition and initiative. 2 awards of \$400	include equally weighted consideration of academic performance, leadership and financial
Amount:		need. Preference will be given to members of the varsity football team. Examples of
W.C. Winegard	gard Medal is the most prestigious graduating award of the University	leadership may include academic tutoring, mentoring team mates, assisting in the organization and promotion of varsity and/or intramural athletics, participation on
	student will be nominated by each College Awards Committee. The	university committees, such as in residences, on Senate or in Colleges, and similar
Senate Awards C	Committee will make the final selection and the medal will be awarded	off-campus activities. Students may receive the award up to four times. Awarded in the
	n June. Application not required.	winter semester.
Donor(s):	The Board of Governors' of the University	<i>Donor(s):</i> Mrs. George A. Gray <i>Qualification(s):</i> Students who are members of varsity teams and in the second, third,
Qualification(s):	Graduating student who excels both academically and in extracurricular activities.	fourth or fifth year of full-time study with a minimum 70% average
Amount:	1 Gold medal	in all courses completed in the previous year of study and have
W.G. Stevenson	Memorial Scholarship [C2063]	demonstrated leadership.       Amount:     2 awards of \$1,250
	emorial to Dr. W. Gordon Stevenson O.V.C.'37 by Pfizer Animal Health.	Graham Family Incentive Scholarship [14506]
Application not i	*	Provided by Harvey Graham (O.A.C. '39) with the assistance of the Ontario government's
Donor(s): Qualification(s):	<b>Rogar/STB Division - BTI Products Inc.</b> Student who has successfully completed Phase 4 of the D.V.M. program	OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.)
znanjicanom(s).	and who is most proficient in bovine reproduction and obstetrics in	to Student Financial Services by October 7. Awarded in the Winter semester. ACCESS
	the course VETM*4850 (Health Management).	AWARD Donor(s): Harvey Graham O.A.C. '39
Amount:	1 award of \$150	<i>Donor(s):</i> Harvey Graham O.A.C. '39 <i>Qualification(s):</i> Students entering the fourth year of a four year degree program,
W.J.R. Fowler I		maintaining at least a 70% program average and demonstrating financial
Wilfreda Fowler Application not 1	Jackson presents a prize in memory of her father, Dr. W.J.R. Fowler.	need, who have previously received the Harvey Graham Bursary.
Donor(s):	Wilfreda Fowler Jackson	Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
	• Student who has successfully completed Phase 4 of the D.V.M. program	Amount: 1 award of \$5,000
~ ,	who is most proficient in equine medicine and surgery in the course	
Amount:	VETM*4840 (Large Animal Clinics). 1 award of \$100	

244	IX. Scholarships and Other Awards, Doctor of Veterinary Medicine
Guelph Varsity Athletic Accessibility Scholarship [10518]	Robert, Louis and Helen Shaw Memorial Degree Scholarships [14520]
<ul> <li>Apply to Student Financial Services with a letter describing on and off-car extra-curricular activities and a Financial Need Assessment Form (N.A.F.) by Oc 7. To be considered for this award, you must list it on your N.A.F. and indicate v varsity team you play on. Selection will be based upon equally weighted consider of academic performance and evidence of leadership qualities. Students may receiv award up to four times. Awarded in the winter semester.</li> <li>Donor(s): Alumni and friends of the University of Guelph Qualification(s): Students with at least 5.0 credits and less than 20.5 credits, who members of a varsity athletic team and who have demonstrated fina need. Students must have maintained at least a 70% cumulative available in the previous year of study (minimum credits).</li> </ul>	stober       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 <i>Donor(s):</i> <b>The Shaw Scholarship Committee</b> <i>Qualification(s):</i> Students registered in the B.A.Sc., 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
Amount: 2 awards of \$1,250	award (see General Statements on Awards).
Howard N.B. Dorfman Scholarship [I2520]	Amount: Several awards of \$1,000
Established by the family of the late Howard N.B. Dorfman (O.V.C.'78), with assistance of the Ontario government's OSOTF program. Apply with a comp Financial Need Assessment Form (N.A.F.) to Student Financial Services by Octol Students will be considered for this award automatically once a N.A.F has been subn by the deadline date. Awarded in the Winter semester. ACCESS AWARD. <i>Donor(s):</i> <b>The family of the late Howard N.B. Dorfman</b> <i>Qualification(s):</i> Student in Phase 4 of the D.V.M. program and who has demonst the most outstanding achievement in veterinary neurology, base	beted       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 to the Centre for Students with Disabilities by November 25.         Donor(s):       The Giuliani Family Qualification(s):         West academically promising applicant with a demonstrated disability and having financial need.
performance in VETM*4830 (Neurology rotation of the course S	
Animal Clinics). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (se General Statements on Awards). Amount: 1 award of \$250 John B. Walkden and Malcolm T. Bond Prize [12512]	This have a second back of the second se
Established by John B. Walkden and Malcolm T. Bond, with the assistance of the Or government's OSOTF program. Apply with a completed Financial Need Assess Form (N.A.F.), to Student Financial Services by October 7. Students will be consider for this award automatically once a N.A.F has been submitted by the deadline Awarded in the Winter semester. ACCESS AWARD	sment $Qualification(s)$ : Students related to a member of U.G.R.A. that are registered in a degree program with a minimum 75% cumulative average in the last two
Donor(s):       Estate of John B. Walkden         Qualification(s):       Full-time students in the D.V.M. program who has successfully completed the course Veterinary Externship (VETM*4900). The recipient will have been judged to be proficient in bovine medic and surgery during the externship, based on the host practitioner evaluation. Additionally, students must meet the government-manterms for receipt of an OSOTF award (see General Statements of Awards).	e 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.)
Amount: 1 award of \$3,100	food supply or utilization, farmland conservation or woodlot management. ACCESS
OVC Class of 1977 Memorial Scholarship [I2510]         The Class of O.V.C. 1977, with the assistance of the Ontario government's OS program, established this scholarship after the tragic and untimely death of their class. Brian Mills, as a gesture of their great esteem for him. The Class also wishes the scholarship honour all their classmates. Apply with a completed Financial Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students be considered for this award automatically once a N.A.F has been submitted b deadline date. Awarded in the Winter semester. ACCESS AWARD Donor(s): OVC '77         Qualification(s):       Full-time students in the Phase 2 or Phase 3 of the D.V.M. program is a 70% program average, and demonstrated financial	at the Need s will by the       Donor(s).       Donor(s).       Donor(s).         at the Need s will s 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).         aram, 1       Amount:       2 awards of \$1,000
are eligible. Selection will be based on greatest financial need.	III-course Awarus with Financial Need
Additionally, students must meet the government-mandated term receipt of an OSOTF award (see General Statements on Awards Amount:         1 award of \$800	
	Donor(s):Established by Dr. Allan CawleyQualification(s):Full-time D.V.M. and graduate students in the Ontario Veterinary

 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. Awarded in the Winter semester. *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. Awarded in the Winter semester. 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.) to Student Financial 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): 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 [12507]

Established by the Canadian Animal Health Institute, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. 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). 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. Awarded in the Winter semester.

#### 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: 25t	h 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. Awarded in the Winter semester. 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

#### Dean's Access Bursaries [I2502]

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. Awarded in the Winter semester. ACCESS AWARD.

#### Donor(s): Alumni and Friends of OVC

201101 (3).	
Qualification(s):	Undergraduate 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:	Several varies

#### Dr. Francis J. Fitzgerald Memorial Bursaries [I2082]

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. Awarded in the winter semester.

#### Donor(s): Mrs. Virginia Fitzgerald

Qualification(s):	Students enrolled in the D.V.M. program who have a record of
	satisfactory academic performance and have demonstrated financial
	need.
Amount:	Several varies

#### Dr. M. Adrian Gross Memorial Bursary [I2106]

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. Awarded in the Winter semester.

#### Donor(s): Dora Gross

 Qualification(s): Students enrolled in the D.V.M. program with a satisfactory academic performance and a demonstrated need of financial assistance.

 Amount:
 1 award of \$500

# Dr. Martin DeForest Memorial Bursary [I2157]

Established by family and friends of Dr. Martin DeForest, OVC '77 in his memory. Dr. DeForest was a leader in the veterinary profession, and was widely recognized for his compassion and commitment to animal health. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the winter.

Donor(s):	Friends and Family of Dr. Martin Deporest	
Qualification(s):	Students enrolled in the D.V.M. program who have a record of	
	satisfactory academic performance and have demonstrated financial	
	need.	
Amount:	1 award of \$450	
Dr. R.C. Crouch	ner Bursary [I2519]	
Established by D	r. 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 on	utomatically once a N.A.F has been submitted by the deadline date. Awarded in the	
Winter semester.	Winter semester. ACCESS AWARD	

Donor(s):	Ross C. Croucher, OVC '50
Qualification(s):	Students registered in the D.V.M. program with demonstrated financial
	need. Additionally, students must meet the government-mandated
	terms for receipt of an OSOTF award (see General Statements on
	Awards).
Amount:	1 award of \$800

Edith B. Williams Bursary [I2072]	Gryphon Investment Council Bursaries [13513]
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	Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Awarded in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.
by the deadline date. Awarded in the Winter semester.	Students will be considered for this award automatically once a N.A.F has been submitted
Donor(s): Friends of Family of Edith B. Williams	by the deadline date. Students will be considered for this award automatically once a
<i>Qualification(s):</i> Students enrolled in the D.V.M. program who have a record of	N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD
satisfactory academic performance and have demonstrated financial need.	Donor(s): Gryphon Investment Council Inc.
Amount: 1 award of \$300	Qualification(s): Full-time students with demonstrated financial need. Additionally,
Elizabeth Burton Bursaries [I3503]	students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program,	Amount: 2 awards of \$1,500
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.	Guelph Compassionate Health Bursary [13061]
Students will be considered for this award automatically once a N.A.F has been submitted	This bursary has been established and approved by the Student Health and Dental
by the deadline date. Awarded in the Winter semester. ACCESS AWARD.	Committee to assist students up to 80% of unforeseen health needs above and beyond the benefits offered through the mandatory University of Guelph student health plan.
<i>Donor(s):</i> Mrs. Elizabeth Burton <i>Qualification(s):</i> Students in second, third or fourth year with demonstrated financial	Submit a Financial Need Assessment Form (N.A.F.) accompanied by the physician
need. Additionally, students must meet the government-mandated	recommendation, cost estimates and physician contact information to the Awards Officer,
terms for receipt of an OSOTF award (see General Statements on	Student Financial Services. The application will be reviewed throughout the semester to handle emergencies immediately.
Awards). Amount: Several awards of up to \$2000	Donor(s):     Student Health and Dental Plan Reserve
Essex County Veterinary Association Bursary [12529]	Qualification(s): Students must be registered on the University of Guelph Student Health
Established by the Essex County Veterinary Association, with the assistance of the	Plan. The student must require treatment for a condition not currently or completely covered by the Student Health Plan.
Ontario government's OSOTF program. Apply with a completed Financial Need	Amount: Several varies to a maximum \$1,000
Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline	Guelph Student Assistance Program [I3056]
date. Awarded in the Winter semester. ACCESS AWARD	These bursaries have been established and approved by undergraduate students through
Donor(s): Essex County Veterinary Association	student referendum to assist undergraduate and University of Guelph campus diploma
<i>Qualification(s):</i> D.V.M. student with demonstrated financial need. Preference will be	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
given to a student from Essex County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award	(OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial
(see General Statements on Awards).	Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.
Amount: 1 award of \$500	Typically, awarded in the Winter semester. Donor(s): Undergraduate Students
Gloria Lemieux Bursaries [12156]	<i>Qualification(s):</i> Full-time undergraduate students registered in any degree program
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 demonstrated financial need.
with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services	Amount: Several awards of varying amounts up to \$1,000
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.	Harriet Bilbey Bursary [I2144] Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial
Donor(s): Estate of Gloria Lemieux	Services by October 7. Students will be considered for this award automatically once a
<i>Qualification(s):</i> Students enrolled in the D.V.M. program who have a record of	N.A.F has been submitted by the deadline date. Awarded in the Winter semester.
satisfactory academic performance and demonstrated need of financial	Donor(s): Estate of Harriet Bilbey
Amount: Several varying	<i>Qualification(s):</i> Student enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need.
Grant and Muriel Crittenden Bursaries [I2018]	Amount: 2 awards of \$900
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial	Helen Davidson Memorial Bursary [I2509]
Services by October 7. Students will be considered for this award automatically once a	Established by Gladys M. Davidson, as a memorial to her beloved sister Helen, with the
N.A.F has been submitted by the deadline date. Awarded in the Winter semester.	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.
<i>Donor(s):</i> The estate of Grant and Muriel Crittenden <i>Qualification(s):</i> Students enrolled in the D.V.M. program who have a record of	Students will be considered for this award automatically once a N.A.F has been submitted
satisfactory academic performance and have demonstrated financial	by the deadline date. Awarded in the Winter semester. ACCESS AWARD
need.	Donor(s):         Established by Gladys M. Davidson           Qualification(s):         Full-time students in the D.V.M. program who have demonstrated
Amount: Several varies Crant Misonar Burspring [12538]	<i>Qualification(s):</i> Full-time students in the D.V.M. program who have demonstrated financial need. Additionally, students must meet the
Grant Misener Bursaries [I2538] Dr. Andrew Grant Misener (O.V.C.'38), alumnus of the University of Guelph, with the	government-mandated terms for receipt of an OSOTF award (see
assistance of the Ontario government's OSOTF program, has established an endowment	General Statements on Awards). Amount: 8 awards of \$1,000
fund for bursaries to provide financial assistance to students in the D.V.M. program.	Hill's Bursary [I2511]
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a	Established by Hill's Pet Nutrition, with the assistance of the Ontario government's
N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS	OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.)
AWARD	to Student Financial Services by October 7. Students will be considered for this award automatically area a N A E has been submitted by the deadline data. Awarded in the
<i>Donor(s):</i> <b>Dr. Andrew Grant Misener (OVC '38)</b> <i>Qualification(s):</i> Students in the D.V.M. program with demonstrated financial need.	automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD
<i>Qualification(s):</i> Students in the D. v.M. program with demonstrated infancial need. Additionally, students must meet the government-mandated terms for	Donor(s): Hill's Pet Nutrition Canada Inc.
receipt of an OSOTF award (see General Statements on Awards).	Qualification(s): D.V.M. student with demonstrated financial need. Additionally,
Amount: Several varies	students must meet the government-mandated terms for receipt of an OSOTE award (see General Statements on Awards)
	Amount: 1 award of \$1,500

# Howard and Myrtle Rogers Bursaries [13537]

Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD

#### The Estate of Howard and Myrtle Rogers Donor(s):

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). 10 up to \$2,000 Amount:

#### 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. Several awards of varying amounts

# Amount:

# International Student Bursaries [I3009]

Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor.

#### Donor(s): Mrs. Norma L. Valeriote

201101(0).	
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. Awarded in the Winter semester.

#### Family and friends of Irvine and Grace B.L.A.ck Donor(s):

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 [12586]

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. Awarded in the winter. ACCESS AWARD

#### Donor(s): The Rathlyn Foundation

Qualification(s): Undergraduate students in the D.V.M. program, students registered in the Faculty of Graduate Studies and enrolled in a department of the Ontario Veterinary College, and undergraduate 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

#### N.A.F has been submitted by the deadline date. Awarded in the Winter semester. Mr. Neville Lewisohn Donor(s):

Qualification(s): Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.

#### Amount: Several varies Margaret Emma (Peggy) and Donald Alan Melton Bursaries [I2503] Established by Donald Alan Melton, with the assistance of the Ontario government's OSOTF program, as a memorial to his beloved wife, Peggy, and in recognition of her lifelong devotion to animals and concern for their welfare. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD Donor(s) Established by Donald Alan Melton Qualification(s): Full-time undergraduate students in the D.V.M. program and to graduate students registered in the Faculty of Graduate Studies and enrolled in a department of the Ontario Veterinary College. Eligible undergraduate students must have 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). 4 awards of \$1,000 Amount: 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. Awarded in the Winter semester. ACCESS AWARD. Estate of Mary I. Whitelock Donor(s): Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Amount: 13 awards of \$2,000 Maude Loretta Trapp Bursaries [I2099] Maude Loretta Trapp, a humanitarian and lover of animals has established this bursary for undergraduate veterinary students who are residents of North Western Ontario. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. The estate of Maude Loretta Trapp Donor(s): Qualification(s): Students enrolled in the D.V.M. program who are residents of North Western Ontario (whole district of Thunder Bay and all the territory west to the Manitoba border), who have a record of satisfactory academic performance and have demonstrated financial need. Amount: Several varies Ontario Co-operatives R.P. Forshaw Bursary [I3013] The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester. The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Donor(s): Forshaw Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union. Amount: 1 award of \$400 Ontario Veterinary Medical Association Bursary [I2505] Established by the Ontario Veterinary Medical Association with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD **Ontario Veterinary Medical Association** Donor(s).

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]	Pearl and Percy Kaine Bursaries [12500]
Established by the Class of O.V.C.'39, with the assistance of the Ontario government's	Pearl and Percy Kaine, Guelph landowners and dairy farmers who had an interest in
OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.)	horses, have provided financial assistance to veterinary students through the Pearl and
to Student Financial Services, by October 7. Students will be considered for this award	Percy Kaine Bursaries with the assistance of the Ontario government's OSOTF program.
automatically once a N.A.F has been submitted by the deadline date. Awarded in the	Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial
Winter semester. ACCESS AWARD.	Services by October 7. Students will be considered for this award automatically once a
Donor(s): OVC '39	N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS
<i>Qualification(s):</i> Full-time students in the D.V.M. program with demonstrated financial	AWARD
need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on	<i>Donor(s):</i> <b>Pearl and Percy Kaine Bursaries</b> <i>Qualification(s):</i> One award will be given annually to one student in each of the four
Awards).	years of the D.V.M. program who has demonstrated the greatest
Amount: 1 award of \$1,000	financial need. Additionally, students must meet the
OVC '48 Bursary [I2116]	government-mandated terms for receipt of an OSOTF award (see
Established by the class of O.V.C.'48 and their families to assist undergraduate veterinary	General Statements on Awards).
students with demonstrated financial need. Apply with a completed Financial Need	Amount: 4 awards of \$2,500
Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be	Pfizer Bursaries [I2506]
considered for this award automatically once a N.A.F has been submitted by the deadline	Provided by Pfizer Canada Inc., with the assistance of the Ontario government's OSOTF
date. Awarded in the Winter semester.	program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student
Donor(s): Class of OVC '48	Financial 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.
<i>Qualification(s):</i> Students enrolled in the D.V.M. program with a record of satisfactory	ACCESS AWARD
academic performance and demonstrated financial need. Preference will be given to students who have completed Phase 2 of the D.V.M.	Donor(s): Pfizer Canada Inc.
program.	<i>Qualification(s):</i> Full-time students in the D.V.M. program with demonstrated financial
Amount: Several varies	need. Additionally, students must meet the government-mandated
OVC '52 Bursary [I2143]	terms for receipt of an OSOTF award (see General Statements on
Established by the class of O.V.C.'52 in memory of deceased classmates to assist	Awards). Amount: 3 awards of \$1,000
undergraduate veterinary students with demonstrated financial need. Apply with a	
completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by	Robert Auger Humanitarian Bursary [I3058]
October 7. Students will be considered for this award automatically once a N.A.F has	This award, of up to \$500, has been established through the generosity of staff in the
been submitted by the deadline date. Awarded in the Winter semester.	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
<i>Donor(s):</i> The Class of OVC '52 <i>Qualification(s):</i> Students enrolled full-time in the D.V.M. program with a record of	students who unexpectedly find themselves in difficult financial circumstances, to provide
satisfactory academic standing and demonstrated financial need.	grocery, and textbook vouchers.
Amount: 1 award of \$1,500	Donor(s): Office of Registrarial Services
OVC '55 Bursaries [I2508]	Qualification(s): Students who require assistance through this fund should apply in
Established by the Class of O.V.C.'55, with the assistance of the Ontario government's	confidence to the Assistant Registrar, Financial Aid, Student Financial
OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.)	Amount: Several awards of \$500
to Student Financial Services, by October 7. Students will be considered for this award	Robinson Memorial Bursary [I2118]
automatically once a N.A.F has been submitted by the deadline date. Awarded in the	•
Winter semester. ACCESS AWARD	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)
<i>Donor(s):</i> <b>OVC '55</b> <i>Qualification(s):</i> Full-time students in the D.V.M. program with demonstrated financial	by family, friends and colleagues. Apply with a completed Financial Need Assessment
need. Additionally, students must meet the government-mandated	Form (N.A.F.) to Student Financial Services by October 7. Students will be considered
terms for receipt of an OSOTF award (see General Statements on	for this award automatically once a N.A.F has been submitted by the deadline date.
Awards).	Awarded in the Winter semester.
Amount: 5 awards of \$500	Donor(s): Mrs. Barbara Robinson
OVC'49 and Dr. Ray Cormack Bursaries [I2504]	<i>Qualification(s):</i> Student enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need.
Established by the Class of O.V.C.'49 and Dr. Ray Cormack (O.V.C.'49), with the	Amount: Several varies
assistance of the Ontario government's OSOTF program, to commemorate the 50th	Scotiabank Bursaries [I3532]
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	Established by Scotiabank, with the assistance of the Ontario government's OSOTF
be considered for this award automatically once a N.A.F has been submitted by the	program, to assist students with financial need to continue their studies as full-time
deadline date. Awarded in the Winter semester. ACCESS AWARD	students. Distributed in the Winter semester. Apply with a completed Financial Need
Donor(s): OVC '49-Cormack Fund	Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be
Qualification(s): Full-time students in the Doctor of Veterinary Medicine program who	considered for this award automatically once a N.A.F has been submitted by the deadline
have demonstrated financial need. Additionally, students must meet	date. Awarded in the Winter semester. ACCESS AWARD.
the government-mandated terms for receipt of an OSOTF award (see	Donor(s): Scotiabank
General Statements on Awards). Amount: 5 awards of \$1,000	<i>Qualification(s):</i> 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 [12050]
	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. Awarded in the Winter semester.

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]	University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [13047]
Established by Dr. C. Thibeault, a former student of O.V.C. Apply with a completed	The University of Guelph offers in-course bursaries to students who have demonstrated
Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.	financial need. Apply to Student Financial Services, with a completed Financial Need
Students will be considered for this award automatically once a N.A.F has been submitted	Assessment Form (N.A.F.) by October 7. Awarded in the Winter semester.
by the deadline date. Awarded in the Winter semester.	Donor(s): University of Guelph
Donor(s): Dr. C. Thiebeault	<i>Qualification(s):</i> Undergraduate students registered for full-time studies (as defined by
<i>Qualification(s):</i> Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial	OSAP) in a degree program with demonstrated financial need and a minimum of 2.0 course credits completed.
need.	Amount: Several awards to a maximum of \$800
Amount: Several varies	University Police Bursaries [I3019]
University of Guelph Access Bursaries [13522]	The University Police have made available a number of bursaries. Apply to Student
Provided by alumni and friends of the University, with the assistance of the Ontario	Financial Services with a completed Financial Need Assessment Form (N.A.F.) by
government's OSOTF program, to support undergraduate, graduate or O.A.C. (Guelph)	October 7. Students will be considered for this award automatically once a N.A.F has
diploma students who wish to study full-time but who need financial support to do so.	been submitted by the deadline date.
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial	Donor(s): The University Police
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	Qualification(s): Full-time undergraduate and graduate students who have financial
AWARD. Variable amounts from \$500 to \$2,000	need. Amount: Several of various amounts
Donor(s): Alumni and Friend of the University of Guelph	
<i>Qualification(s):</i> Full-time students with demonstrated financial need. Additionally,	University Student Assistance Program [13057]
students must meet the government-mandated terms for receipt of an	These bursaries have been established and approved by the University of Guelph to
OSOTF award (see General Statements on Awards).	assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment
Amount: Several awards of \$500, Several awards of \$2,000	Form (N.A.F.) by October 7. Typically, awarded in the Winter semester.
University of Guelph Alumni Association Access Bursaries [13523]	Donor(s): University of Guelph
Established by the University of Guelph Alumni Association, with the assistance of the	<i>Qualification(s):</i> Full-time undergraduate students registered in any degree program
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	with demonstrated financial need. Preference will be given to students
Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be	who are not eligible for provincial and/or federal assistance programs
considered for this award automatically once a N.A.F has been submitted by the deadline	such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).
date. Awarded in the Winter semester. ACCESS AWARD.	Amount: Several awards of various amounts to a maximum of \$1,000
Donor(s): University of Guelph Alumni Association	In-course Travel Grants
Qualification(s): Full-time in-course students with demonstrated financial need.	
Additionally, students must meet the government-mandated terms for	Arthur D. Latornell Undergraduate Travel Grants [T0058]
receipt of an OSOTF award (see General Statements on Awards).	An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who had
Amount: 2 awards of \$1,000	
Amount:     2 awards of \$1,000       University of Cuelob Child Care Bursaries [13053]	a life-long professional career in resource management and conservation and a special
University of Guelph Child Care Bursaries [13053]	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.
University of Guelph Child Care Bursaries [13053] In order to provide accessible child care to students with (a) child(ren), the University	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
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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 <td>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 1 for Fall 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 in semester 3 and above. 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OVC Alumni A	ssociation Travel Scholarship [T2044]
	O.V.C. Alumni Association to support summer work programs under
•	faculty member at another University. Applications must be submitted
-	O.V.C. Awards Committee before the Christmas break in Phase 3, with
	at least one O.V.C. instructor and a letter indicating that satisfactory
U	ve been made for the summer work. OVC Alumni Association
Donor(s): Qualification(s):	Student who has completed Phase 2 of the D.V.M. program with high
Qualification(s).	academic standing. The Awards Committee will consider the qualities
	of leadership, integrity, personality and the ability to communicate
	well. The recipient must indicate that arrangements have been made
	to work in the summer between Phases 3 and 4 under a faculty member at another University.
Amount:	1 award of \$1,500
Richard and So	phia Hungerford Undergraduate Travel Scholarships [T4508]
	ichard and Sophia Hungerford, with the assistance of the Ontario
	SOTF program, has established an endowment to provide travel
-	indergraduate students with demonstrated financial need who wish to
• •	ing countries, or attend conferences on development. Apply to Student es with a description of the intended travel, an estimate of the travel
	pleted Financial Need Assessment Form (N.A.F.) at least one month
	e. Deadline dates are June 1 for Fall travel, October 1 for Winter travel,
and February 1 f	or Summer travel. 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
	uelph Travel Scholarships [T0421]
•	of Guelph, through the sale of Guelph London House, has established o provide travel scholarships to undergraduate and graduate students
	y outside of Canada but need financial support to do so. Preference will
•	ents participating in the London Semester. Students may only receive
	once per degree. Apply to Student Financial Services with a description
	ravel, an estimate of the travel costs and a completed Financial Need n (N.A.F.) at least one month prior to departure. Deadline dates are June
	October 1 for Winter travel, and February 1 for Summer travel.
Donor(s):	University of Guelph
	Registered undergraduate and graduate students that have completed
	5.0 credits with demonstrated financial need who have a minimum
	70% cumulative average in the last two semesters of full-time equivalent study are eligible to apply. The value of the award will
	depend on the assessed financial need. The scholarship can cover
	additional costs of travelling outside of Canada including: airfare,
A	administrative costs, and differential costs of accommodation.
Amount:	Several up to \$1,500
_	vel Scholarship in Avian Medicine [T2163]
	Inc. established this award to support a D.V.M. student attending the on of Avian Veterinarians Conference. Selection will be made based
	academic performance in Comparative Medicine (VETM*4480),
combined with the	he extent and quality of demonstrated interest and experience in avian
	by letter, outlining interest and experience in avian medicine, and
expected benefit Affairs, by Janua	of attendance at the conference, to the OVC Assistant Dean, Student
Donor(s):	Vetoquinol N- A Inc.
	Full-time D.V.M. students who have completed Phase 3 and are
guangicanon(s).	planning on attending the annual Association of Avian Veterinarians
	Conference.
Amount:	1 award of \$1,000
_	vel Scholarship in Bovine Reproduction [T2162]
	Inc. established this award to support a D.V.M. student attending the
•	of Theriogenology Conference. Apply by letter, outlining interest and vine reproduction, and expected benefit of attendance at the conference,
•	stant Dean, Student Affairs, by January 15.
Donor(s):	Vetoquinol N- A Inc.
	Full-time D.V.M. student planning to attend the annual Society of
4	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 demonstrably contributed to the public profile
	and understanding of horticulture and landscaping, and has a minimum
	"A" standing (average) at graduation. The prize recognizes skills in
	independent business communications - including public relations,
	marketing, and services/product promotion via new media/multimedia
	creation, public speaking, or print, audio and video
	publicity/communication.
Amount:	One award of \$450

# **Open Learning program Awards**

#### **Open Learning Bursaries**

Established by faculty, staff and friends of Open Learning. These funds are intended to provide support for non-degree students that are enrolled in an Open Learning Program (courses, certificates, and diplomas) in need of financial assistance. Apply, online, through the Office of Open Learning web site at www.open.uoguelph.ca/bursary by June 30 for consideration for Fall, Winter, and/or Spring semesters of study.

*Qualification(s):* Canadian citizens or permanent residents with the greatest financial need.

#### Amount: Two awards of \$250

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 populaces. 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 correse 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 apply 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		Honours		General	Со-ор	
		Major	Minor	Area of Emphasis	-	
Adult Development, Families & Well-Being	ADFW	BASC				
Agriculture	AGR		BSAG			
-			BAS			
Agricultural Business	AGBU	BCOMM				BCOMM
Agricultural Economics	AGEC	BA BSAG				
Agricultural Science	AGRS	BSAG				
Animal Biology	ABIO	BSC				
Animal Science	ANSC	BSAG				
Anthropology	ANTH	BA	BA BAS		BA	
Agricultural Business	AGBU	BCOMM				BCOMM
Applied Human Nutrition	AHN	BASC				
Applied Mathematics & Statistics	APMS					BSC
Applied Pharmaceutical Chemistry	APPC					BSTC
Art History	ARTH	BA	BA BAS			
Art Theory and Criticism	ATC		BA BAS			
Biochemistry	BIOC	BSC	BAS BSC			BSC
Biological Chemistry	BCHM	BSC				
Biological Engineering	BIOE	BENG				BENG
Biological Science	BIOS	BSC			BSC	
Biology	BIOL		BAS BSC			
Bio-Medical Science	BIOM	BSC				
Biomedical Toxicology	BTOX	BSC				BSC
Biophysics	BIOP	BSC				BSC
Biotechnology	BIOT		BAS BSC			
Biotic Systems	BS			BSES		
Business Administration	BADM		BA BAS BSC			
Chemical Physics	CHPY	BSC				BSC
Chemistry	CHEM	BSC	BAS BSC			BSC
Child, Youth and Family	CYF	BASC				BASC
Classical Languages	CLAL	BA	BA BAS			
Classical Studies	CLAS	BA	BA BAS			
Cognitive Neuropsychology	CGNR		BA BAS			
Computing & Information Science	CIS	BA BSC	BA BAS BSC		ВА	BA BSC
Criminal Justice & Public Policy	СЈРР	BA	BA BAS			
Crop, Horticulture and Turfgrass Sciences	CHAT	BSAG				
Developmental Psychology	DPSY		BA BAS			
Earth & Atmospheric Science	EAAS	BSES				BSES
Earth Surface Science	ESS	BSC				

Ecology	ECOL	BSC BSES	BAS BSC			BSES
Economic & Business Development	EBD			BAH.ID		
Economics	ECON	BA	BA BAS		BA	BA
Educational Psychology	EPSY		BA BAS			
Engineering Systems and Computing	ESC	BENG				BENG
English	ENGL	BA	BA BAS		BA	
Environment & Development	EAD			BAH.ID		
Environmental Biology	ENVB	BSC BSES				BSES
Environmental Economics & Policy	EEP	BSES				BSES
Environmental Engineering	ENVE	BENG	BENG			BENG
Environmental Geography	ENVG	BSES				BSES
Environmental Management	EM	BBRM				
Environmental Monitoring & Analysis	EMA	BSES				BSES
Environmental Studies	ENVS		BA BAS			
Environmental Toxicology	ETOX	BSC				BSC
Environmetrics and Modelling	EMM	BSES				BSES
Equine Management	EQM	BBRM				
European Culture & Civilization	ECC		BAS	BAH.EURS		
European Business Studies	EBS			BAH.EURS		
European Studies	EURS	BA				
Experimental Ecology	EECO			BSCH.ECOL		
Family & Child Studies	FCS		BA BAS			
Finance	FIN			BCOMM.HEIF		
Food Engineering	FENG		BENG			
Food Science	FOOD	BSC	BAS BSC			BSC
Forest Science	FORS		BAS BSC			
French Studies	FREN	BA	BA BAS		BA	
Functional Foods & Nutraceuticals	FFAN		BAS BSC			
Gender and Development	GAD			BAH.ID		
General Ecology	GECO			BSCH.ECOL		
GIS & Environmental Analysis	GIS		BAS BSC			
Geography	GEOG	BA	BA BAS		BA	
Geology	GEOL		BAS BSC			
German	GERM		BA BAS			
Historical Perspective in Development	HPD			BAH.ID		
History	HIST	BA	BA BAS		BA	
Hotel & Food Administration	HAFA	BCOMM				BCOMM
Human Kinetics	НК	BSC				
Human Resources Management	HRM	BCOMM				
Individual Studies	IS	BA				
Industry	IND			BCOMM.MEIF		
Information Systems & Human Behaviour	ISHB	BA				

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International Development	ID	BA	BA BAS		BA	
Interpretive Ecology	IE			BSCH.ECOL		
Italian	ITAL		BA BAS			
Landscape Architecture		BLA				
Latin American Studies	LAS			BAH.ID		
Marine & Freshwater Biology	MFB	BSC				
Management Economics in Industry & Finance	MEIF	BCOMM				BCOMM
Marketing Management	MKMN	BCOMM	BA BAS			BCOMM
Mathematical Economics	MAEC	BA				
Mathematical Science	MSCI		BAS BSC			
Mathematics	MATH	BA BSC	BA BAS BSC		BA	
Microbiology	MICR	BSC	BAS BSC			BSC
Molecular Biology & Genetics	MBG	BSC	BSC			
Museum Studies	MS		BA BAS			
Music	MUSC	BA	BA BAS		BA	
Natural Resources Management	NRM	BSES				BSES
Neuroscience	NEUR		BAS BSC			
Nutritional Science	NSCI		BSC			
Nutritional & Nutraceutical Sciences	NANS	BSC				
Organic Agriculture	OAGR	BSAG				
Organizational Behaviour	ОВЕН		BA BAS			
Philosophy	PHIL	BA	BA BAS		BA	
Physical Science	PSCI	BSC			BSC	
Physics	PHYS	BSC	BAS BSC			BSC
Physics & Technology	PHTC					BSTC
Plant Biology	PBIO	BSC	BAS BSC			
Plant Biotechnology	PBTC	BSC	BAS BSC			
Political Economy & Administrative Change	PEAC			BAH.ID		
Political Science	POLS	BA	BA BAS		BA	
Psychology	PSYC	BA BSC	BSC			BA
Public Management	PMGT	BCOMM				BCOMM
Real Estate & Housing	REH	BCOMM				BCOMM
Resource Conservation	RC			BSCH.ECOL		
Rural & Agricultural Development	RAD			BAH.ID		
Rural & Development Sociology	RDS	BA				
Social Psychology	SPSY		BA BAS			
Sociology	SOC	BA	BA BAS		BA	
Spanish	SPAN	BA	BA BAS		BA	
Statistics	STAT	BA	BA	1	BA	1

Studio Art	SART	BA	BA		
Theatre Studies	THST	BA	BA BAS	BA	
Theoretical Physics	THPY	BSC			
Tourism Management	TMGT	BCOMM			
Urban Landscape Management	ULM	BSAG			
Veterinary Medicine		DVM			
Visual Arts of the Americas	VAA		BA BAS		
Water Resources Engineering	WRE	BENG			BENG
Wild Life Biology	WLB	BSC			
Women's Studies	WMST	BA	BA BAS	BA	
Zoology	ZOO	BSC	BAS BSC		

# Bachelor of Applied Science (B.A.Sc.)

# **Program Information**

The University of Guelph offers an 8 semester (20.00 credits) honours program leading to a Bachelor of Applied Science (B.A.Sc.) degree. Students must select one of the 3 following major areas of study:

Adult Development, Families and Well-Being

Applied Human Nutrition

Child, Youth and Family

Co-operative Education is available in the following program:

Child, Youth and Family

Given the professional and applied character of the program, there are no minors associated with the degree. 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 knowledgable 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. Students in the B.A.Sc. program may repeat any failed course only once. Failure to successfully complete a required (core) credit on the second attempt results in the student not being permitted to continue in his/her major and/or program.

# **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, Families and Well-Being (ADFW)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Adult Development, Families and Well-Being 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, Families and Well-Being major must successfully complete a minimum of 20.00 passed credits, include the core of 11.50 required credits as outlined in the Schedule of Studies.

Some students may wish to select courses that provide a broad background appropriate for teaching, business, public service management or other careers. Students interested in pursuing graduate education are encouraged to complete an undergraduate thesis in their senior year and to participate in faculty research projects.

In addition to the core requirements and options, there are courses in various departments throughout the University which may be taken as electives. Lists of suggested electives that relate to particular careers or areas of interest and requirements for admission to various graduate programs, including Faculties of Education, are available from the B.A.Sc. Program Counsellor.

#### Major Semester 1

Semester 1		
FRHD*1100	[0.50]	Life: Health and Well-Being
PSYC*1200	[0.50]	Dynamics of Behaviour
One of:		
ENGL*1200	[0.50]	Reading the Contemporary World
FREN*1200	[0.50]	French Language I
One of:		
ANTH*1150	[0.50]	Introduction to Anthropology
SOC*1100	[0.50]	Sociology
0.50 electives		
Semester 2		
FRHD*1010	[0.50]	Human Development
FRHD*1020	[0.50]	Couple and Family Relationships
NUTR*1010	[0.50]	Nutrition and Society
PSYC*1100	[0.50]	Principles of Behaviour
0.50 electives		-
Semester 3		
FRHD*2100	[0.50]	Development of Human Sexuality
STAT*2080	[0.50]	Introductory Applied Statistics I
One of:		v 11
BIOM*2000	[0.50]	Concepts of Physiology
MBG*1000	[0.50]	Genetics and Society
PSYC*2410	[0.50]	Behavioural Neuroscience I
1.00 electives		
Semester 4		
FRHD*2060	[0.50]	Adult Development and Aging
FRHD*2350	[0.50]	Principles of Program Design in the Human Services
STAT*2090	[0.50]	Introductory Applied Statistics II
1.00 electives		• • • •
Semester 5		
FRHD*3040	[0.50]	Parenting: Research and Applications
FRHD*3070	[0.50]	Research Methods: Family Studies
FRHD*3400	[0.50]	Communication and Counselling Skills
1.00 electives		-
Semester 6		
FRHD*3120	[0.50]	Families in Canadian Context
FRHD*3290	[1.00]	Practicum I: Adult Development and Families
1.00 electives		L Contraction of the second seco

Semester 7		
FRHD*4310	[0.50]	Professional Issues *
2.00 electives		
Semester 8		
FRHD*4250	[0.50]	Aging and Health
One of:		
FRHD*4260	[0.50]	Social Policy and Gerontology
FRHD*4320	[0.50]	Social Policies for Children, Youth and Families
1.50 electives		

#### **Electives - Recommended and Program Options**

Students entering into human services after graduation are encouraged to take FRHD\*4290. Students who intend to pursue studies or careers in the following areas, Adult Development and Aging, Family and Social Relations, Human Sexualtity and Health or Research may wish to include electives from the following lists:

#### **Adult Development and Aging Interest**

·····		8			
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 II: Adult Development and Families			
Family and Soc	ial Relations	Interest			
FRHD*4020	[0.50]	Family Theory			
FRHD*4100	[0.50]	Dynamics of Group and Family Functioning			
FRHD*4290	[1.00]	Practicum II: Adult Development and Families			
Human Sexuali	ty and Healt	h Interest			
FRHD*4200	[0.50]	Issues in Human Sexuality			
FRHD*4290	[1.00]	Practicum II: Adult Development and Families			
PSYC*3690	[0.50]	Community Mental Health			
<b>Research Intere</b>	est				
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, Families and Well-Being 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\*3040 and FRHD\*3070 to Semester 7 and FRHD\*3400 can be taken in 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).

#### **Applied Human Nutrition (AHN)**

# Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Applied Human Nutrition major recognizes both the biological and the social facets of human nutrition. It focuses on nutrition from a preventive, maintenance and therapeutic perspective, all of which require a thorough understanding of the related biological sciences and of selected aspects of the behavioral sciences. Students learn about nutrition and its application to the maintenance of health and the prevention and treatment of disease. They also learn about individual and social behaviour, particularly in family settings, and the implications of behavioral factors in the establishment of good nutrition status from conception through to old age.

# The B.A.Sc. Applied Human Nutrition program is accredited by the Dietitians of Canada.

All students in the Applied Human Nutrition major must include the core of 14.00 required and 1.50 restricted electives in the minimum of 20.00 passed credits. Students normally register for courses according to the semesters indicated below for Fall and Winter sequencing.

Those students wishing to compete for admission to a post-graduate dietetic internship will be assisted by departmental advisors in the selection of courses that will meet the

academic requirement of the Dietitians of Canada and the College of Dietitians of Ontario for eligibility for internship and/or membership.

Successful completion of the requirements will allow students to compete for a <u>limited</u> number of dietetic internship positions. Most graduates completing dietetic internships are employed in hospitals and other health care agencies such as community health centres and long-term care facilities. Others find employment in a wider range of vocations including those associated with health and education in the government or private sectors, or with the food industry. Still others proceed to graduate study in fields such as nutrition, public health nutrition, medicine or education.

# Major

Semester 1				
CHEM*1040	[0.50]	General Chemistry I		
FRHD*1100	[0.50]	Life: Health and Well-Being		
HTM*2700	[0.50]	Introductory Foods		
MICR*1020	[0.50]	Fundamentals of Applied Microbiology		
PSYC*1200	[0.50]	Dynamics of Behaviour		
Semester 2				
CHEM*1050	[0.50]	General Chemistry II		
NUTR*1010	[0.50]	Nutrition and Society		
PSYC*1100	[0.50]	Principles of Behaviour		
One of:	[0.50]	Theopes of Denaviour		
FRHD*1020	[0.50]	Couple and Family Palationshing		
		Couple and Family Relationships		
SOC*1100	[0.50]	Sociology		
0.50 electives				
Semester 3				
BIOC*2580	[0.50]	Introductory 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]	Information Management		
Note: HTM*2030	may be take	en in Semester 4.		
Semester 4	•			
BIOC*3560	[0.50]	Structure and Function in Biochemistry		
NUTR*3210	[0.50]	Fundamentals of Nutrition		
STAT*2090	[0.50]	Introductory Applied Statistics II		
1.00 electives or restricted electives				
Semester 5*	Surfetted ere			
BIOM*3100	[0 50]	Mammalian Dhysiology I		
FRHD*3070	[0.50]	Mammalian Physiology I Research Methods: Family Studies		
	[0.50]			
1.50 electives or restricted electives				
* students planning to apply for a dietetic internship must take HTM*3090 in Semester 5 in place of elective or restricted elective				
Semester 6				
BIOM*3110	[0.50]	Mammalian Physiology II		
FRHD*3400	[0.50]	Communication and Counselling Skills		
HTM*3000	[0.50]	Human Resources Management		
NUTR*3040	[0.50]	Clinical Nutrition I		
0.50 electives or re				
Note: HTM*3000	Note: HTM*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 re	stricted ele	ctives		
Semester 8				
NUTR*4900	[0.50]	Selected Topics in Human Nutrition		
2.00 electives or re				
Note: With approval from the instructor, students may substitute NUTR*4810 and				
NUTR*4910 for NUTR*4900.				
	Restricted Flectives			

#### **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*3010	[0.50]	Food Chemistry
FOOD*3020	[0.50]	Food Chemistry Laboratory
FOOD*3230	[0.75]	Food Microbiology
FOOD*3700	[0.50]	Sensory Evaluation of Foods
HTM*2740	[0.50]	Cultural Aspects of Food
HTM*3780	[0.50]	Economics of Food Usage
NUTR*3110	[0.50]	Food Security

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# Electives

There are 4.50 electives throughout the major which may be fulfilled by electing courses in any subject provided that the student has the prerequisite courses and can schedule them. Some electives and restricted elective courses are intended to contribute to a liberal education, while others permit students to work toward specific academic and career goals. Departmental advisors will assist students in selection of courses that will meet the requirements of the Dietitians of Canada for eligibility for Internship and/or membership, and when requested, can assist in selection of electives to complement the core requirements.

# Child, Youth and Family (CYF)

#### Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Child, Youth and Family major, administered by the Department of Family Relations and Applied Nutrition, examines the psychological, social and physical conditions which influence the growth and development of children and adolescents. While the primary focus of the major is on children and youth, the program regards the family as a primary context of development and as the key to successful interventions for children with developmental, behavioural, or socio-emotional difficulties. Through the effective use of elective courses, the core requirements in the major can be supplemented to create a program of study which will prepare graduate as 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. 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 15.00 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

- J -		
Semester 1		
FRHD*1100	[0.50]	Life: Health and Well-Being
MBG*1000	[0.50]	Genetics and Society
PSYC*1200	[0.50]	Dynamics of Behaviour
One of:		
ANTH*1150	[0.50]	Introduction to Anthropology
SOC*1100	[0.50]	Sociology
One of:		
ENGL*1200	[0.50]	Reading the Contemporary World
FREN*1200	[0.50]	French Language I
Semester 2		
FRHD*1020	[0.50]	Couple and Family Relationships
FRHD*2260	[0.50]	Infant Development
NUTR*1010	[0.50]	Nutrition and Society
PSYC*1100	[0.50]	Principles of Behaviour
0.50 electives		
Semester 3		
BIOM*2000	[0.50]	Concepts of Physiology
FRHD*2100	[0.50]	Development of Human Sexuality
FRHD*2270	[0.50]	Development in Early and Middle Childhood
STAT*2080	[0.50]	Introductory Applied Statistics I
0.50 electives		
Semester 4		
FRHD*2060	[0.50]	Adult Development and Aging
FRHD*2110	[0.50]	Exceptional Children and Youth
FRHD*2280	[0.50]	Adolescent Development

STAT*2090 One of:	[0.50]	Introductory Applied Statistics II
FRHD*2040	[0.50]	Principles of Program Design for Children
FRHD*2300	[0.50]	Principles of Program Design for Youth
Semester 5		
FRHD*3040	[0.50]	Parenting: Research and Applications
FRHD*3070	[0.50]	Research Methods: Family Studies
FRHD*3150	[0.50]	Strategies for Behaviour Change
One of:		
FRHD*3200	[1.00]	Practicum - Child
FRHD*3250	[1.00]	Practicum in Youth
Semester 6		
FRHD*3120	[0.50]	Families in Canadian Context
FRHD*3180	[0.50]	Observation and Assessment
FRHD*3400	[0.50]	Communication and Counselling Skills
1.00 electives		
Semester 7		
FRHD*4170	[1.00]	Practicum - Child, Youth and Family
FRHD*4310	[0.50]	Professional Issues
1.00 electives or re	estricted ele	ctives
Semester 8		

FRHD\*4320 [0.50] Social Policies for Children, Youth and Families 2.00 electives or restricted electives

#### **Restricted Electives**

In addition to the 14.50 required credits, 0.50 must be taken from the Department of Family Relations and Applied Nutrition at the 4000 level.

#### **Electives - Recommended and Program Options**

#### **Child and Youth Services**

Students who intend to pursue a career in child and youth services may wish to choose electives from the following list:

FRHD*3090	[0.50]	Child and Family Poverty
FRHD*3190	[0.50]	Administration of Programs for Children and Youth
FRHD*4020	[0.50]	Family Theory
FRHD*4180	[0.50]	Assessment and Intervention
FRHD*4200	[0.50]	Issues in Human Sexuality
FRHD*4400	[0.50]	Youth, Risk and Resilience
FRHD*4810	[0.50]	Thesis I
FRHD*4910	[1.00]	Thesis II
NUTR*2050	[0.50]	Family and Community Nutrition
PSYC*3440	[0.50]	Cognitive Development
PSYC*3450	[0.50]	Social and Personality Development
PSYC*3710	[0.50]	Psychology of Learning Difficulties and Disabilities I
PSYC*3720	[0.50]	Psychology of Learning Difficulties and Disabilities II
PSYC*3850	[0.50]	Intellectual Disabilities
REXT*3100	[0.50]	Teaching and Learning in Non-Formal Education
SOAN*2290	[0.50]	Identities and Cultural Diversity
SOC*1500	[0.50]	Crime and Criminal Justice
SOC*3040	[0.50]	Sociology of Social Welfare

#### **Early Childhood Education**

Students who intend to pursue a career in early childhood education may wish to choose electives from the following list:

	U	
DRMA*2400	[0.50]	Theatre for Young Audiences
ENGL*2740	[0.50]	Children's Literature
FRHD*3090	[0.50]	Child and Family Poverty
FRHD*3190	[0.50]	Administration of Programs for Children and Youth
FRHD*4180	[0.50]	Assessment and Intervention
FRHD*4210	[0.50]	Senior Seminar in Early Education and Care
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

#### 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.

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 14.00 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:

# Semester 1 - Fall

FRHD*1100	[0.50]	Life: Health and Well-Being	
MBG*1000	[0.50]	Genetics and Society	
PSYC*1200	[0.50]	Dynamics of Behaviour	
One of:			
ANTH*1150	[0.50]	Introduction to Anthropology	
SOC*1100	[0.50]	Sociology	
One of:	[0.50]	boelology	
ENGL*1200	10 501	Deading the Contemporary World	
	[0.50]	Reading the Contemporary World	
FREN*1200	[0.50]	French Language I	
Semester 2 - Y	winter		
FRHD*1020	[0.50]	Couple and Family Relationships	
FRHD*2260	[0.50]	Infant Development	
NUTR*1010	[0.50]	Nutrition and Society	
PSYC*1100	[0.50]	Principles of Behaviour	
0.50 electives	[0.000]	<b>F</b>	
Semester 3 - 1	Fall		
BIOM*2000	[0.50]	Concepts of Physiology	
FRHD*2060	[0.50]	Adult Development and Aging	
FRHD*2100	[0.50]	Development of Human Sexuality	
FRHD*2270	[0.50]	Development in Early and Middle Childhood	
STAT*2080	[0.50]	Introductory Applied Statistics I	
Semester 4 - Winter			
FRHD*2110	[0.50]	Exceptional Children and Youth	
FRHD*2280	[0.50]	Adolescent Development	
FRHD*3120	[0.50]	Families in Canadian Context	
STAT*2090	[0.50]	Introductory Applied Statistics II	
One of:	[0.50]	introductory Applied Statistics II	
	[0,50]	Bringinlag of Bragman Davies for Children	
FRHD*2040	[0.50]	Principles of Program Design for Children	
FRHD*2300	[0.50]	Principles of Program Design for Youth	
Summer Sem	ester		
COOP*1000	[0.00]	Co-op Work Term I	
Fall Semester	•		
COOP*2000	[0.00]	Co-op Work Term II	
Semester 5 - Y		·····	
		Starts size for Debasions Change	
FRHD*3150	[0.50]	Strategies for Behaviour Change	
FRHD*3180	[0.50]	Observation and Assessment	
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	
Semester 6 - S	Summer		
FRHD*3400	[0.50]	Communication and Counselling Skills	
2.00 electives	[0.0.0]		
Semester 7 - Fall			
FRHD*3040	[0.50]	Parenting: Research and Applications	
FRHD*3070	[0.50]	Research Methods: Family Studies	

FRHD\*4310 [0.50] Professional Issues 1.00 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 at the 4000 level.

# **Bachelor of Arts (B.A.)**

The University of Guelph offers general and honours programs leading to the B.A. degree. The General Program consists of a minimum of 15.00 credits requiring the equivalent of 6 semesters of successful full time study. The Honours Program consists of a minimum of 20.00 credits requiring the equivalent of 8 semesters of successful full time study. A student may register in Summer, Fall and Winter semesters. The normal course load is 2.50 credits per semester for a full time student on regular status. Students may register for 0.50 credit more at their own discretion. Part time study consists of 1.50 credits or fewer per semester.

# **Program Information**

#### A student's selection of courses must follow the B.A. Program Regulations (including Distribution Requirements), a pattern of study for either the General or Honours degree (below), and the detailed schedule(s) of studies which follow for any special subject(s) studied.

In fulfilling distribution requirements a) and b) students must in semester 1 choose 2 courses from 2 different schools or departments in the College of Arts and 2 courses from 2 of the following departments in the College of Social and Applied Human Sciences and the College of Management and Economics: Economics, Geography, Political Science, Psychology, Sociology and Anthropology.

Students entering the B.A. program with advanced standing must complete the distribution requirements a) and b) as soon as possible after entrance to the program. Requirement c) need not be completed immediately but is a graduation requirement.

Note: Courses taken to satisfy the distribution requirements may also be counted toward a specialization in the general or honours program.

# Academic Counselling

# **Program Counselling**

Students are urged to seek the assistance of the counsellors in the B.A. Counselling Office regarding their program and academic regulations, selecting courses, services and resources available on campus, and when they are experiencing difficulties that affect their academic progress.

# **Departmental Advising**

Every academic department has advisors available to assist students in their course selection planning. Students should seek the advice of the faculty advisor when declaring a major, area of concentration, or minor, regarding course scheduling and completing the requirements for the specializations.

Students encountering difficulties within a course should first consult the instructor of the course. Co-operative education students in Computing and Information Science, Economics and Psychology will also have a departmental Co-op Academic Advisor and Co-ordinator, and should consult Co-operative Education Services regarding scheduling work terms and the COOP\*1000 course.

# **Academic Residence Requirements**

- 1. At least 5.00 of the credits required for graduation by the student's program must be taken at the University of Guelph.
- 2. At least 60% of the 3000 and 4000 level courses required for graduation must be taken at the University of Guelph.

University of Guelph courses include courses taken on exchange and on study abroad programs. Letter of Permission courses are not included.

#### **Continuation of Study**

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations and Procedures of this calendar.

#### **Conditions for Graduation**

In addition to meeting the general and honours degree requirements listed below under Program Regulations, students will not normally be eligible to graduate while on probationary or required-to-withdraw status.

# **Distribution Requirements**

The distribution requirements are designed to provide the student with exposure to and some understanding of a range of disciplines in the Arts, Social Sciences and Mathematical and Natural Sciences.

The distribution requirement of 8 courses (minimum 4.00 credits) is as follows:

A. A minimum of 1.50 credits over at least 2 different subject areas in the humanities:

ARTH Art History CLAS Classical Studies ENGL English EURO European Studies FREN French Studies GERM German Studies GREK Greek HIST History

HUMN Humanities **ITAL Italian Studies** LAT Latin LING Linguistics MUSC Music PHIL Philosophy SART Studio Art SPAN Spanish Studies THST Theatre Studies WMST Women's Studies

B. A minimum of 1.50 credits over at least two of the following subject areas in the social sciences:

ANTH Anthropology ECON Economics GEOG Geography IDEV International Development ISS Interdisciplinary Social Science POLS Political Science PSYC Psychology SOAN Sociology and Anthropology SOC Sociology

WMST Women's Studies

C. 1.00 credits in natural and/or mathematical sciences from the list below.

# Natural and Mathematical Science Courses Acceptable for B.A. Distribution Requirements

Students must take 1.00 credits in natural and/or mathematical science courses to fulfill the B.A. science requirements. Students should choose their courses from the list below or any course for which those listed serve as prerequisites. Students are advised to fulfill this requirement before their final semester. Any problems related to this requirement should be discussed with a B.A. Program Counsellor.

Courses recommended for students with limited preparation (e.g., lacking 4U credit in a specific area):

specific area).		
BIOL*1020	[0.50]	Introduction to Biology
BIOM*2000	[0.50]	Concepts of 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
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
MATH*1050	[0.50]	Introduction to Mathematical Modeling
MBG*1000	[0.50]	Genetics and Society
MCS*2020	[0.50]	Information Management
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
ZOO*1500	[0.50]	Humans in the Natural World - a Zoological Perspective
Other acceptable c	courses whi	ch 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
HK*2100*(Only	[0.50]	Anatomy for Artists
available to SART		
majors)		
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 Countin	ng of Cou	rses

#### **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 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 (OAC Required) Greek - GREK\*1100 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 Studio Art - SART\*1050, SART\*1060 Spanish Studies - SPAN\*1100, SPAN\*1110 Theatre Studies - THST\*1040, THST\*1200 Women's Studies - WMST\*1000

PLUS 1.00 credits from the following: Anthropology - 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

Women's Studies -WMST\*1000

# **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 to meet their particular needs. 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 Computing and Information Science Economics English French Studies Geography History International Development Mathematics Music Philosophy Political Science Sociology Spanish Statistics Theatre Studies Women's Studies The schedule of studies for each area of concentration is given on the following pages under its subject heading.

**Honours Program Majors** Agricultural Economics Anthropology Art History Classical Languages Classical Studies Computing and Information Science\* Criminal Justice and Public Policy Economics\* English European Studies French Studies Geography History Individual Studies Information Systems and Human Behaviour International Development Mathematical Economics Mathematics Music Philosophy Political Science Psychology\* Rural and Development Sociology Sociology Spanish Statistics Studio Art Theatre Studies Women's 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 Languages **Classical Studies** Cognitive Neuropsychology Computing and Information Science Criminal Justice and Public Policy Developmental Psychology Economics Educational Psychology English Environmental Studies European Culture and Civilization Family and Child Studies French Studies Geography German History International Development Italian Marketing Management Mathematics Museum Studies Music Organizational Behaviour Philosophy Political Science Social Psychology Sociology

Spanish Statistics Studio Art Theatre Studies Visual Arts of the Americas

Women's Studies

The schedule of studies for each minor is given on the following pages under its subject heading.

# Agricultural Economics (AGEC)

# Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

The study of agricultural economics prepares students for careers as economic analysts in the agrifood sector and in public agencies. In addition, this major provides excellent background for those students planning to do graduate work in agricultural and resource economics and other fields of applied economics.

Agricultural Economics is offered as a major in the honours program. A detailed program planning guide is available in the Department of Food, Agricultural and Resource Economics.

# **Major (Honours Program)**

A minimum of 9.50 credits, consisting of the 15 courses specified below plus 4 restricted electives, is required, including:

AGEC*2700	[0.50]	Survey of Natural Resource Economics
AGEC*3030	[0.50]	The Firm and Markets
AGEC*4000	[0.50]	Agricultural and Food Policy
AGEC*4500	[0.50]	Decision Science
AGR*1100	[0.50]	Introduction to the Agrifood Systems
AGR*1250	[0.50]	Agrifood System Trends & Issues
BUS*2220	[0.50]	Financial 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*2770	[0.50]	Introductory Mathematical Economics
ECON*3600	[0.50]	Macroeconomics in an Open Economy
ECON*3710	[0.50]	Advanced Microeconomics
ECON*3740	[0.50]	Introduction to Econometrics
Four additional courses, at least three of which must be in agricultural economics and at		
least one of which	must be at	the 4000 level, chosen from the following list:
AGEC*4210	[0.50]	World Agriculture and Economic Development
AGEC*4220	[0.50]	Advanced Farm Management
AGEC*4240	[0.50]	Futures and Options Markets
AGEC*4290	[0.50]	Land Economics
AGEC*4310	[0.50]	Resource Economics
BUS*2230	[0.50]	Management Accounting
ECON*3510	[0.50]	Money, Credit and the Financial System
ECON*3530	[0.50]	Industrial Organization
ECON*3580	[0.50]	Economics of Regulation
ECON*3610	[0.50]	Public Economics
ECON*3620	[0.50]	International Trade
ECON*3720	[0.50]	History of the World Economy Since 1850
Notor Duono quisi	f	-hand a second a second s

**Notes:** Prerequisites for the above courses will require students to take MATH\*1000, MATH\*1080, or MATH\*1200 during their first year of study. 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.

# 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.

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:		
LING*1000	[0.50]	Introduction to Linguistics
MUSC*2110	[0.50]	Music of the Circum-Atlantic and the Americas
MUSC*2200	[0.50]	Music of the Near and Far East
PHIL*2100	[0.50]	Critical Thinking
1 50 additional cre	edits in AN	ГН

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:

		1 , 0
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
LING*1000	[0.50]	Introduction to Linguistics
SOAN*2120	[0.50]	Introductory Methods
SOAN*3070	[0.50]	Qualitative and Observational Methods
One of:		
MUSC*2110	[0.50]	Music of the Circum-Atlantic and the Americas
MUSC*2200	[0.50]	Music of the Near and Far East

MUSC*2200	[0.50]	Music of the Near and Far East
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:

A minimum of 6.0	0 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:		
LING*1000	[0.50]	Introduction to Linguistics
MUSC*2110	[0.50]	Music of the Circum-Atlantic and the Americas
MUSC*2200	[0.50]	Music of the Near and Far East
PHIL*2100	[0.50]	Critical Thinking
1.50 additional cre	edits in ANT	Ϋ́Η
1.00 111.1 1	1	N

1.00 additional credits in SOAN

Note: 1.50 of these additional credits must be completed at the 3000 level or above.

# 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 [2.00 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
and one [0.50] of	the followin	g:
SART*1050	[0.50]	Integrated 2-D Media
SART*1060	[0.50]	Media Convergence

# **Major (Honours Program)**

A minimum of 9.00 credits is required, including:

- a. the Art History core
  - 1. ARTH\*1220, ARTH\*1510, ARTH\*1520,
  - 2. SART\*1050 or SART\*1060
- 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 1.50 credits from 4000-level seminar courses: ARTH\*4050, ARTH\*4060, ARTH\*4150, ARTH\*4160, ARTH\*4550, ARTH\*4620

#### Minor (Honours Program)

- A minimum of 5.00 credits is required, including:
- a. 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

Western Art an	lu Cross-Cu	nurai i cispectives
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*4150	[0.50]	Seminar in Western Art I
ARTH*4160	[0.50]	Seminar in Western Art II
Arts of the Ame	ericas	
ARTH*2050	[0.50]	Modern Latin American Art
ARTH*2060	[0.50]	Aboriginal Arts in the Americas
ARTH*2070	[0.50]	Art of the USA
ARTH*2490	[0.50]	History of Canadian Art
ARTH*3010	[0.50]	Contemporary Canadian Art
ARTH*3050	[0.50]	Pre-Columbian Art
ARTH*3060	[0.50]	Public Art
ARTH*4050	[0.50]	Seminar in the Americas I
ARTH*4060	[0.50]	Seminar in the Americas II
Art Theory, Cr	itical Metho	dology 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 and Identity in Art
ARTH*3780	[0.50]	Gender and Art
ARTH*4550	[0.50]	Questions in Criticism
ARTH*4620	[0.50]	Museum Studies
NT ( D ) 11	C 1 1 .	1

**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
	PHIL*3050	[0.50]	Philosophy of Art
b	. 3.00 additional	l credits in Art H	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 and Identity in Art
	ARTH*3520	[0.50]	Idea: Art Since 1950
	ARTH*3780	[0.50]	Gender and Art
	ARTH*4550	[0.50]	Questions in Criticism
-			

# **Business Administration (BADM)**

#### Department of Economics, 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. It is possible for students to pursue a more intensive program in the area of business administration and economics; see the heading Applied Economics in the B.A. degree and the heading Management Economics in Industry and Finance in the B.Comm. degree.

#### **Minor (Honours Program)**

A minimum of 5.00 credits is required, including:			
BUS*2220	[0.50]	Financial Accounting	
BUS*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*3560	[0.50]	Theory of Finance	
MCS*3040	[0.50]	Business and Consumer Law	
One of:			
AGEC*3310	[0.50]	Operations Management	
HTM*4390	[0.50]	Individuals and Groups in Organizations	
One of:			
AGEC*4370	[0.50]	Food & Agri Marketing Management	
MCS*1000	[0.50]	Introductory Marketing	

#### Classical Languages (CLAL)

# School of Languages and Literatures, College of Arts

The Classical Languages program imparts an advanced knowledge of Greek and Latin and is designed for students who have a special interest in literature, history and philosophy or plan to do postgraduate study in any area of Classics.

# **Core Requirements**

GREK\*1100, GREK\*1110, GREK\*2020, LAT\*1100, LAT\*1110, LAT\*2000

# Major (Honours Program)

A minimum of 9.00 credits is required, including:

- a. the Classical Languages core
- b. any 5.00 credits from CLAS\*3050, CLAS\*3060, CLAS\*3070, CLAS\*3080, CLAS\*3090, CLAS\*3120, CLAS\*4010
- c. LAT\*4100, LAT\*4150

# Minor (Honours Program)

A minimum of 6.00 credits is required, including:

- a. the Classical Languages core
- b. any 3.00 credits from those listed under Item (b) above

# **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, CLAS\*3200, 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 English WritersHIST\*2200[0.50]The Medieval WorldLING\*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

# Cognitive Neuropsychology (CGNR)

#### Department of Psychology, College of Social and Applied Human Sciences

Ellis and Young (1988) defined cognitive psychology as the "study of those mental processes which underlie and make possible our everyday ability to recognize familiar objects and people, to find our way around in the world, to speak, read and write, and to plan and execute actions, to think, make decisions and remember." They proposed two complementary aims in the study of cognitive neuropsychology:

- i. To explain the patterns of impaired and intact cognitive performance seen in brain-injured patients in terms of damage to one or more of the components of a theory or model of normal cognitive functioning.
- ii. To draw conclusions about normal, intact cognitive processes from the patterns of impaired and intact capabilities seen in brain-injured patients.

The Minor program in Cognitive Neuropsychology is targeted for students seeking to broaden their knowledge beyond their major area of study. It may be of particular interest to students specializing in biology or computer science. A Minor in cognitive neuropsychology will prove valuable to students seeking careers in research and medicine.

#### **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*2360	[0.50]	Introductory Research Methods
PSYC*2390	[0.50]	Principles of Sensation and Perception
PSYC*2410	[0.50]	Behavioural Neuroscience I
PSYC*2650	[0.50]	Cognitive Psychology
PSYC*3330	[0.50]	Memory
PSYC*3340	[0.50]	Psycholinguistics
PSYC*3410	[0.50]	Behavioural Neuroscience II
PSYC*4600	[0.50]	Cognitive Neuroscience
One of:		
PSYC*2010	[0.50]	Quantification in Psychology
STAT*2040	[0.50]	Statistics I

0.50 additional credits in Psychology

**Note:** Courses designated with (H) in Section XII--Course Descriptions are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

# **Computing and Information Science (CIS)**

Department of Computing and Information Science, College of Physical and Engineering Science

X. Degree Programs, Bachelor of Arts (B.A.)

#### X. Degree Programs, Bachelor of Arts (B.A.)

The Computing and Information Science program emphasizes the applications of computing in other academic disciplines and in business environments. "B" grades are required for but do not guarantee admission to semester three of CIS programs. The BA Program serves students who want computing at the core of a liberal education. The BA is also suited for students who wish to manipulate quantities of data or apply computing techniques across disciplines, especially in the social sciences, humanities or fine arts. Students with a more narrowly focused area of application might consider the BSc program for the natural and biological sciences or the B.Comp Program for other specializations. All three programs can lead to graduate work or positions in industry.

# Area of Concentration (General 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	CIS credits a	t the 2000 level or higher

1.00 additional CIS credits at the 2000 level or higher

# Major (Honours Program)

#### Semester 1

 CIS\*1500
 [0.50]
 Introduction to Programming

 MATH\*1200
 [0.50]
 Calculus I

 1.00 electives from different subject areas in the College of Arts (ENGL\*1080 or ENGL\*1200 is recommended)

0.50 electives from selected subject areas in the College of Social and Applied Human Sciences\*

#### Semester 2

CIS*1910	[0.50]	Discrete Structures in Computing I		
CIS*2500	[0.50]	Intermediate Programming		
0.50 electives from the College of Arts				

1.00 electives from selected subject areas in the College of Social and Applied Human Sciences\*

# Semester 3

CIS*2030	[0.50]	Structure and Application of Microcomputers
CIS*2430	[0.50]	Object Oriented Programming
CIS*2520	[0.50]	Data Structures
CIS*2910	[0.50]	Discrete Structures in Computing II
0.50 electives		
Semester 4		
CIS*2750	[0.75]	Software Systems Development and Integration
CIS*3110	[0 50]	Operating Systems

 CIS\*3110
 [0.50]
 Operating Systems

 STAT\*2040
 [0.50]
 Statistics I

 0.75 electives
 0

Note: 0.50 electives may be selected in semester 4 followed by 0.50 electives in semester

#### Semester 5

CIS*2460	[0.50]	Modelling of Computer Systems
CIS*3530	[0.50]	Data Base Systems and Concepts
CIS*3750	[0.75]	System Analysis and Design in Applications
0.50 CIS electiv	es at 3000 le	vel or above (CIS*3210 [0.50] is recommended)
0.25 elective		

#### Semester 6

CIS\*3490 [0.50] The Analysis and Design of Computer Algorithms 1.00 CIS electives at 3000 level or above

# 1.00 electives

Semester 7

1.00 CIS. credits at the 4000 level

## 1.50 electives

#### Semester 8

1.00 CIS credits at the 4000 level

1.50 electives

\*1.50 electives in semesters 1 and 2 must be from at least two of the following subject areas in the College of Social and Applied Human Sciences: ANTH, ECON, GEOG, POLS, PSYC, SOAN, SOC, WMST

# **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				

Computing and Information Science (Co-op) (CIS:C)

# Department of Computing and Information Science, College of Physical and Engineering Science

The 4 year Honours Program Major in Computing and Information Science is also available as a Co-operative Education Program. Three co-op work terms are required. A five year option with four work terms is also available. Please see the department's co-op academic advisor for details.

COOP\*1100 must be completed in the 2nd academic semester (Winter of year 1). Students may apply for these options at the time of University admission or completion of semester 2.

Conditions for graduation are the same as the corresponding regular B.A. program. In addition, all work reports must have a grade of satisfactory or better.

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. Recommended work terms are shown below:

Work/Study Semesters

List A

#### Semester 1(Fall)

 CIS\*1500
 [0.50]
 Introduction to Programming

 MATH\*1200
 [0.50]
 Calculus I

 1.00 electives from different subject areas in the College of Arts (ENGL\*1080 or

ENGL\*1080 is recommended)

0.50 electives from selected subject areas in the College of Social and Applied Human Sciences\*

#### Semester 2(Winter)

CIS*1910	[0.50]	Discrete Structures in Computing I
CIS*2500	[0.50]	Intermediate Programming
COOP*1100	[0.00]	Introduction to Co-operative Education
0.50 electives from		
	selected si	ubject areas in the College of Social and Applied Human
Sciences*		
Semester 3(Sum	imer)	
CIS*2030	[0.50]	Structure and Application of Microcomputers
CIS*2430	[0.50]	Object Oriented Programming
CIS*2520	[0.50]	Data Structures
CIS*2910	[0.50]	Discrete Structures in Computing II
	e Area of A	Application or electives
Fall Semester		
COOP*1000	[0.00]	Co-op Work Term I
Semester 4(Win	ter)	
CIS*2750	[0.75]	Software Systems Development and Integration
CIS*3110	[0.50]	Operating Systems
STAT*2040	[0.50]	Statistics I
0.75 electives		
Summer Semest	ter	
COOP*2000	[0.00]	Co-op Work Term II
Semester 5(Fall)	)	-
CIS*2460	[0.50]	Modelling of Computer Systems
CIS*3530	[0.50]	Data Base Systems and Concepts
CIS*3750	[0.75]	System Analysis and Design in Applications
0.50 CIS electives	at 3000 lev	el or above (CIS*3210 recommended)
0.25 elective		
Winter Semeste	r	
COOP*3000	[0.00]	Co-op Work Term III
Semester 6(Sum	mer)	
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms
1.00 CIS electives	at 3000 lev	
1.00 electives		
Semester 7(Fall)	)	
1.00 CIS credits at	the 4000 le	evel
1.50 electives		
Semester 8(Win	ter)	
1.00 CIS credits at	the 4000 le	evel
1.50 electives		

\*1.50 electives in semesters 1 and 2 must be from at least two of the following subject areas in the College of Social and Applied Human Sciences: ANTH, ECON, GEOG, POLS, PSYC, SOAN, SOC, WMST

POLS, PSYC, SOA	AN, SOC, V	WMST		
List B				
Semester 1(Fall	)			
CIS*1500	[0.50]	Introduction to Programming		
MATH*1200	[0.50]	Calculus I		
1.00 electives from	different s	subject areas in the College of Arts (ENGL*1060 or		
ENGL*1200 is rec	ommended	1)		
0.50 electives from	n selected s	ubject areas in the College of Social and Applied Human		
Sciences*				
Semester 2(Win	iter)			
CIS*1910	[0.50]	Discrete Structures in Computing I		
CIS*2500	[0.50]	Intermediate Programming		
COOP*1100	[0.00]	Introduction to Co-operative Education		
0.50 electives from				
	i selected s	ubject areas in the College of Social and Applied Human		
Sciences*	<b>(</b>			
Semester 3(Sun				
CIS*2030	[0.50]	Structure and Application of Microcomputers		
CIS*2430	[0.50]	Object Oriented Programming		
CIS*2520	[0.50]	Data Structures		
CIS*2910	[0.50]	Discrete Structures in Computing II		
Fall Semester	e Area or A	Application or electives		
	FO 001			
COOP*1000	[0.00]	Co-op Work Term I		
Semester 4(Win				
CIS*2750	[0.75]	Software Systems Development and Integration		
CIS*3110	[0.50]	Operating Systems		
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms		
STAT*2040	[0.50]	Statistics I		
Summer Semes		plication or elective		
COOP*2000	[0.00]	Co-op Work Term II		
Semester 5(Fall	)			
CIS*2460	[0.50]	Modelling of Computer Systems		
CIS*3530	[0.50]	Data Base Systems and Concepts		
CIS*3750	[0.75]	System Analysis and Design in Applications		
0.75 credits in the Area of Application or electives				
Winter Semester				
COOP*3000	[0.00]	Co-op Work Term III		
Semester 6(Sun				
Alternative 1 [Rec	ommended	]		
CIS*3760 [0.75] Software Engineering				
0.50 CIS electives at the 3000 level or above				
1.25 credits in the Area of Application or electives				
	OR Alternative 2			
	1.50 CIS electives at the 3000 level or above			
		plication or electives		
Semester 7(Fall				
1.00 credits in the Area of Application or electives				
0.50 credits in the CIS at 3000 level or above				
1.00 credits in CIS at the 4000 level				
Semester 8(Winter)				
CIS*4000	[0.50]	Applications of Computing Seminar		
1.00 CIS credits at the 4000 level				
1.50 credits in the Area of Application or electives				
0.50 credits in the CIS at 4000 level				
*1.50 electives in semesters 1 and 2 must be from at least two of the following subject				

\*1.50 electives in semesters 1 and 2 must be from at least two of the following subject areas in the College of Social and Applied Human Sciences: ANTH, ECON, GEOG, POLS, PSYC, SOAN, SOC, WMST

#### 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
POLS*2300	[0.50]	Canadian Government
SOAN*2120	[0.50]	Introductory Methods
SOC*1500	[0.50]	Crime and Criminal Justice
SOC*2700	[0.50]	Criminological Theory
Mater The manin		-

Note: The requirement for an average of 70% or better applies only to students admitted to the University of Guelph after 30 April 2002.

Students wishing to declare the CJPP minor must also meet the above requirement.

Students from other institutions who transfer to the University of Guelph and wish to declare the CJPP major or minor must also meet the above requirement. If an external transfer student is granted credit for one or more of the foundation courses listed above, then he or she must attain a cumulative average of 70% or better in the remaining required CJPP foundation courses.

Note: There is no CJPP Area of Concentration in the General Program as of Fall 2002.

#### Major (Honours Program)

A minimum of 9.00 credits is required, including: PHIL\*1010 [0.50] Introductory Philosophy: Social and Political Issues POLS\*1400 [0.50]Issues in Canadian Politics POLS\*2250 [0.50] Public Administration POLS\*2300 [0.50] Canadian Government 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] **Ouantitative Methods** Three of: SOC\*2070 [0.50] Social Deviance SOC\*2750 [0.50] Serial Murder 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: Politics of Ontario POLS\*3110 [0.50] POLS\*3130 Law, Politics and Judicial Process [0.50] 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 Three of: POLS\*4100 [0.50] Women, Justice and Public Policy POLS\*4120 [0.50] Civil Rights and Civil Liberties in Canada and the U.S. POLS\*4160 Multi-Level Governance in Canada [0.50] POLS\*4250 [0.50] Topics in Public Management POLS\*4260 [0.50] Topics in Public Policy SOC\*4010 [0.50] Violence and Society SOC\*4030 Advanced Topics in Criminology [0.50] SOC\*4200 [0.50] Advanced Topics in Criminal Justice SOC\*4900 [0.50] Honours Sociology Thesis I SOC\*4910 [0.50] Honours Sociology Thesis II

# Minor (Honours Program)

A minimum of 6.00 credits is required, including:

[0.50]	Introductory Philosophy: Social and Political Issues
[0.50]	Issues in Canadian Politics
[0.50]	Public Administration
[0.50]	Canadian Government
[0.50]	Introductory Methods
[0.50]	Crime and Criminal Justice
[0.50]	Criminological Theory
[0.50]	Social Deviance
[0.50]	Serial Murder
	[0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50]

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	
Developmental Psychology (DPSY)			

#### Department of Psychology, College of Social and Applied Human Sciences

The focus of Developmental Psychology is the study of the theory, research, and applied interventions associated with the way humans develop and change over time. This focus is especially significant for anyone interested in how we might solve the challenges presented by life. These include the special challenges presented by schooling, parenting, socialization within and beyond the family, coping with stress, and some of the individual differences and atypical behaviors exhibited by ourselves or others. This program of study is designed as a complement to a significant number of Major specializations, 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 a Psychology Honours Major)

A minimum of 6.00 credits is required, including:

PSYC*1100	[0.50]	Principles of Behaviour
DGV/G*1000	FO 501	D ' (D1 '

PSIC*1200	[0.50]	Dynamics of Benaviour
2.50 credits across	5 Psychol	ogy Core Courses, to include PSYC*2330, PSYC*2450,

PSYC\*2650

2.00 credits from the following courses at the 3000 level:

PSYC*3440	[0.50]	Cognitive Development
PSYC*3450	[0.50]	Social and Personality Development
PSYC*3460	[0.50]	Abnormal Development
PSYC*3710	[0.50]	Psychology of Learning Difficulties and Disabilities I
PSYC*3850	[0.50]	Intellectual Disabilities

0.50 elective credits in Psychology at the 3000 level or above, with PSYC\*3570, PSYC\*3800 or the 5th course from the above restricted elective list recommended. Note: Courses designated with (H) in Section XII--Course Descriptions are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

#### **Economics (ECON)**

#### Department of Economics, College of Management and Economics

The Department of Economics offers courses in economic theory, applied economics and quantitative methods. Students may take courses leading to a B.A. in either the honours or the general program. It is possible to combine Economics with various other disciplines such as mathematics and statistics, business administration, political science, geography and history. Students are urged to consult the department's program planning guide and the department's advisors for detailed information about courses and programs and about the course of study most appropriate as preparation for graduate work in economics or business administration, for professional degrees such as the Bachelor's degree in Law, and for careers in business and government.

#### **Core Requirements**

ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2740	[0.50]	Economic Statistics

#### Area of Concentration (General Program)

A minimum of 5.00 credits in Economics is required, including: a. the Economics core

b. 2.50 other credits in Economics at the 3000 or 4000 level

#### **Major (Honours Program)**

A minimum of 9.00 credits in Economics is required, including: The Economics core requirements

ECON\*2770 [0.50] Introductory Mathematical Economics ECON\*3100 [0.50] Game Theory

ECON*3600	[0.50]	Macroeconomics in an Open Economy
ECON*3710	[0.50]	Advanced Microeconomics
ECON*3740	[0.50]	Introduction to Econometrics
ECON*4710	[0.50]	Advanced Topics in Microeconomics
ECON*4810	[0.50]	Advanced Macroeconomic Theory
(Note: ECON*2770	0 requires a	a first year university calculus course)
One of:		
ECON*2720	[0.50]	Business History
ECON*3550	[0.50]	North American Economic History
ECON*3720	[0.50]	History of the World Economy Since 1850

ECON\*3730 [0.50] Europe and the World Economy to 1914 ECON\*4720 [0.50] Topics in Economic History

2.50 other credits in Economics at the 3000 or 4000 level, at least 1.50 of which must be at the 4000 level

Note: Students contemplating graduate studies in Economics should take ECON\*4640, Applied Econometrics and ECON\*4840, Applied Econometrics II.

# Minor (Honours Program)

A minimum of 5.00 credits in Economics is required, including:

- a. the Economics core
- b. 2.50 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. ECON\*4800 may not be counted at the 4000 level for purposes of satisfying the minimum 4000 level credit requirements in the B.A. Honours Economics major. Only one of ECON\*4900 or ECON\*4910 may count in the B.A. program towards the minimum 4000 level requirement.

# Economics (Co-op) (ECON:C)

#### Department of Economics, 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 must complete 4 work terms while fulfilling the requirements of their honours Economics program.

All co-op students must complete the Economics core plus an introductory computer science course (CIS\*), ECON\*2770 and ECON\*3740 in their first 4 semesters. Admission in the co-op program is limited to students of high academic standing and will be considered only at semester 1 entry or at the end of semester 2. The first 2 work terms normally follow completion of the first 4 semesters of academic study. Students will only be permitted to take these work terms if they are eligible to continue in the Honours Economics program, have completed the required courses and are maintaining a satisfactory standing in their Economics program. The 3rd and 4th work terms will normally follow the 6th academic semester. For further information on the Economics Co-op program students are urged to consult the department's Program Guide and Co-operative Education Programs in Section X-degree Programs in this calendar.

Students should review the Economics section in the schedule of studies for additional program information.

#### Major (Honours Program)

#### Semester 1

ECON\*1050 [0.50] Introductory Microeconomics One 1000 level calculus course 1.50 electives

# Semester 2 (Winter)

ECON\*1100 [0.50] Introductory Macroeconomics One computer science course

#### 1.50 electives Summer Semester

Optional -- at the discretion of the student.

#### Semester 3 (Fall)

[0.00]	Introduction to Co-operative Education
[0.50]	Intermediate Microeconomics
[0.50]	Intermediate Macroeconomics
[0.50]	Economic Statistics
[0.50]	Introductory Mathematical Economics
vinter)	
[0.50]	Introduction to Econometrics
	[0.00] [0.50] [0.50] [0.50] [0.50] Winter)

[0.50] Introduction to Econometrics One economic history course\*

# Summer Semester

1.50 electives

COOP\*1000 [0.00]

Co-op Work Term I

# Fall Semester

COOP*2000	[0.00]
Semester 5	(Winter)

[0.00] Co-op Work Term II Winter)

 ECON\*3100
 [0.50]
 Game Theory

 ECON\*3600
 [0.50]
 Macroeconomics in an Open Economy

 One 3000 level economics course
 Source
 Source

1.00 electives

#### Summer Semester

Optional -- at the discretion of the student.

[0.00]

[0.00]

#### Semester 6 (Fall)

ECON\*3710 [0.50] Advanced Microeconomics One 4000 level Economics course (ECON\*4640 is recommended) 1.50 electives

#### Winter Semester

COOP\*3000

COOP\*4000

Co-op Work Term III

Summer Semester

Co-op Work Term IV

#### Semester 7 (Fall)

ECON\*4710 [0.50] Advanced Topics in Microeconomics One 4000 level Economics course

1.00 electives

0.50 restricted electives

#### Semester 8 (Winter)

ECON\*4810 [0.50] Advanced Macroeconomic Theory 0.50 Economics at the 4000 level

1.50 electives

\*the economic history course may be taken in any semester

# Educational Psychology (EPSY)

#### Department of Psychology, College of Social and Applied Human Sciences

This program allows for specialization in Psychology as it relates to Education. It may be of particular interest to teachers, those considering teaching as a career, or anyone interested in the field of Educational Psychology.

#### **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*2450	[0.50]	Introduction to Developmental Psychology	
PSYC*3250	[0.50]	Psychological Measurement	
PSYC*3710	[0.50]	Psychology of Learning Difficulties and Disabilities I	
PSYC*3800	[0.50]	Psychology and Education	
0.50 credits from	the followin	g courses at the 2000 level:	
PSYC*2330	[0.50]	Principles of Learning	
PSYC*2650	[0.50]	Cognitive Psychology	
2.00 credits from the following courses at the 3000 level:			
PSYC*3310	[0.50]	Applied Social Psychology	
PSYC*3330	[0.50]	Memory	
PSYC*3340	[0.50]	Psycholinguistics	
PSYC*3440	[0.50]	Cognitive Development	
PSYC*3450	[0.50]	Social and Personality Development	
PSYC*3460	[0.50]	Abnormal Development	
PSYC*3720	[0.50]	Psychology of Learning Difficulties and Disabilities II	
PSYC*3850	[0.50]	Intellectual Disabilities	

**Note:** Courses designated with (H) in Section XII--Course Descriptions are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

#### **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, especially 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 5.50 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 Area of Concentration.

English core - 2.00 credits as follows:

a. ENGL\*1080, ENGL\*2080, ENGL\*2120

b. one of ENGL\*2130, 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 four fields:

- Medieval and Early Modern Literature
- 18th and 19th Century Literature
- Colonialisms/Postcolonialisms
- Canadian Literature/American Literature

**Note:** Please visit the School of English and Theatre Studies website: http://www.arts.uoguelph.ca/sets for a list of courses that fulfill these requirements.

#### **Major (Honours Program)**

A minimum of 8.50 English credits is required in the English core and the English electives. English elective courses must be chosen to fulfill the Distribution Requirements for the Major.

English core - 3.00 credits as follows:

a. ENGL\*1080, ENGL\*2080

b. ENGL\*2120, ENGL\*2130, ENGL\*3940, ENGL\*3960

English electives - 5.50 credits to include:

- 3.50 credits from 3000 level lecture courses
- 1.00 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 two fields:

- Medieval and Early Modern Literature
- 18th and 19th Century Literature

and that 0.50 credits are completed in each of the following three fields:

- American Literature
- Canadian Literature
- Colonialisms/Postcolonialisms

**Note:** Please visit the School of English and Theatre Studies website: 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\*4690 (Contemporary Literary Theory)
- take at least 2.00 credits in English courses at the 4000 level

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 Studies (ENVS)**

# Interdisciplinary Program

Environmental Studies is an interdisciplinary subject stressing the integration of biophysical and human behavioral dimensions of environmental issues. The requirement of 5.00 credits for the minor is broken into 2 groups of courses, required courses and restricted electives. Students should ensure that they obtain standing in the necessary prerequisites for required and restricted elective courses. There are limitations on courses used for credit in other areas of study which may be used for credit in the Environmental Studies minor. Students should seek counselling from the Department of Geography early in their program.

# Minor (Honours Program)

A minimum of 5.0	0 credits is	required, including:
BIOL*1030	[0.50]	Biology I
BIOL*2060	[0.50]	Ecology

[0.50]

[0.50]

ISS*4000	[0.50]	Research Project in Environmental Studies
Two of the follow	ing social s	ciences courses:
ECON*2100	[0.50]	Economic Growth and Environmental Quality
GEOG*3210	[0.50]	Management of the Biophysical Environment
POLS*3370	[0.50]	Environmental Policy Formation and Administration
The remaining 2.5	0 credits re	quired for the minor must be selected from the following
list. The social sci	ence course	listed above not taken as a required course may be taken
as a restricted elect	tive. Howev	er, students are strongly advised to consult with the program
coordinator before	e choosing e	electives.
AGEC*2700	[0.50]	Survey of Natural Resource Economics
AGEC*4310	[0.50]	Resource Economics
BIOL*1040	[0.50]	Biology II
BIOL*3450	[0.50]	Introduction to Aquatic Environments
BOT*2050	[0.50]	Plant Ecology
CROP*2280	[0.50]	Crops in Land Reclamation
ECON*4930	[0.50]	Environmental Economics
ENGG*3650	[0.50]	Hydrology
ENVB*2030	[0.50]	Current Issues in Forest Science
ENVB*3000	[0.50]	Nature Interpretation
ENVB*3030	[0.50]	Pesticides and the Environment
ENVB*4780	[0.50]	Forest Ecology

Human Impact on the Environment

Introduction to the Biophysical Environment

GEOG\*2110 [0.50] Climate and the Biophysical Environment GEOG\*3110 [0.50] Biotic and Natural Resources GEOG\*3610 [0.50] Environmental Hydrology GEOG\*4110 [0.50] Environmental Systems Analysis LARC\*2820 [0.50] Urban and Regional Planning PHIL\*2070 [0.50] Philosophy of the Environment SOC\*2280 [0.50] Society and Environment SOIL\*2010 [0.50] Soil Science SOIL\*3050 [0.50] Land Utilization **European Studies (EURS)** Interdisciplinary Program

GEOG\*1220

GEOG\*1300

The European Studies program is designed for students who seek a career in International Relations - especially in International Business and Administration - between Canada and Europe. It offers a combination of languages, specially designed courses in European thought, letters and history and specialization in either European Business or European Culture and Civilization

Successful completion of the European Studies major requires proficiency in one of the following languages (French, German, Italian or Spanish). In order to demonstrate language proficiency, students have two options: they may study for a year at a European University, in the country where their chosen core language is spoken, or they may write a final research paper in the chosen core language within a required fourth year European Studies course (see EURO\*4740). It is highly recommended that students spend their third year studying at a European university, in the country where their chosen core language is spoken. The benefits of such an experience are considerable, both academically and personally. One specific academic outcome of a successful year abroad will be recognition that the student has fulfilled the program's core language requirement. Those who can demonstrate that they have written a major academic paper or exam in their chosen language while participating in an approved study year may be waived from the required course EURO\*4740. See the Coordinator for the European Studies program for more information. See also the course description for EURO\*4740.

#### Major (Honours Program)

A minimum of 13.00 credits is required, including:

a. the three components of the European Studies core (8.00 credits)

b. 5.00 credits in either the European Culture and Civilization or the European Business Studies area of emphasis

# **Core Requirements**

1. EURO*1050	[0.50]	The Emergence of a United Europe
EURO*1200	[0.50]	European Culture from the Mid 18th to the Mid 19th
		Century
EURO*2070	[0.50]	European Integration, 1957-1992
EURO*2200	[0.50]	European Culture from the Mid 19th Century to the
		1920's
EURO*2300	[0.50]	European Culture since 1920
EURO*4740	[0.50]	Research Project in European Studies
Note: in order to	domonstrat	languaga profisionay students must write a research

Note: in order to demonstrate language proficiency, students must write a research paper (EURO\*4740) in their core language unless they have spent one year studying at a European university, in the country where their chosen core language is spoken. Where that is the case, upon approval of the Co-ordinator for European Studies, EURO\*4740 will be waived.

2. 3.00 credits in one language:

	FREN*2020	[0.50]	France: Literature and Society	Group A
_	FREN*2030	[0.50]	French Language II	CLAS*2000

	FREN*2520	[0.5	01	French Composition I
	FREN*2540	[0.5		Spoken French: Theory and Practice
	FREN*3520	[0.5		French Composition II
	FREN*3530	[0.5		Business French
	OR			
	GERM*2400	[0.5	01	Contemporary Germany
	GERM*2490	[0.5		Intermediate German I
	GERM*2500	[0.5	0]	Intermediate German II
	GERM*2560	[0.5	0]	Themes in German Literature/Culture
	GERM*3500	[0.5	0]	Advanced German
	One of:			
	GERM*259	90 [0	).50]	Classics of German Literature
	GERM*353	80 [(	).50]	German in the Workplace
	OR			
	ITAL*2060	[0.5		Intermediate Italian I
	ITAL*2070	[0.5		Intermediate Italian II
	ITAL*3060	[0.5		Advanced Italian
	ITAL*3200	[0.5		Novels of Resistance
	ITAL*3950	[0.5	0]	Topics in Italian Literature
	One of:			
	ITAL*2100		).50]	Renaissance Lovers and Fools
	ITAL*3150	) [(	).50]	Medieval Italian Literature
	OR			
	SPAN*2000	[0.5		Spanish Language I
	SPAN*2010	[0.5		Spanish Language II
	SPAN*2040	[0.5		Spanish Civilization
	SPAN*2990	[0.5		Hispanic Literary Studies
	SPAN*3500	[0.5		Spanish Grammar and Composition I
2	SPAN*3530	[0.5		Business Spanish Introduction to Classical Culture
3.	CLAS*1000	[0.5		
	ISS*2500 HIST*2510	[0.5 [0.5		Management in Organizations
	HIS1*2310	[0.5	J	The Emergence of Modern European Society 1789-1945
	POLS*3450	[0.5	01	European Governments and Politics
A		-	0]	European Governments and Fonties
	eas of Emp			
Eu	ropean Busii	iess		
Rec	quired courses:			
BU	S*2220	[0.50]	Fir	nancial Accounting
BU	S*2230	[0.50]		anagement Accounting
DII	C*2220	FO 501	E.	

BUS*2220	[0.50]	Financial Accounting
BUS*2230	[0.50]	Management Accounting
BUS*3320	[0.50]	Financial Management
ECON*1050	[0.50]	Introductory Microeconomics
ECON*1100	[0.50]	Introductory Macroeconomics
One of:		
AGEC*3310	[0.50]	Operations Management
AGEC*4370	[0.50]	Food & Agri Marketing Management
2.00 credits (4 cou	rses) choses	n from:
One of:		
AGEC*3310	[0.50]	Operations Management
AGEC*4370	[0.50]	Food & Agri Marketing Management
Note: each of these	e courses co	ounts as either required or restricted elective, may not be
double counted		
BUS*4250	[0.50]	Business Policy
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*3560	[0.50]	Theory of Finance
ECON*3660	[0.50]	Economics of Equity Markets
ECON*3720	[0.50]	History of the World Economy Since 1850
ECON*3730	[0.50]	Europe and the World Economy to 1914
HTM*2200	[0.50]	Organizational Behaviour I
HTM*3000	[0.50]	Human Resources Management
HTM*3100	[0.50]	Dimensions of Tourism
HTM*3160	[0.50]	Destination Management and Marketing
HTM*4170	[0.50]	International Tourism Development and Management
HTM*4390	[0.50]	Individuals and Groups in Organizations
MCS*1000	[0.50]	Introductory Marketing
MCS*2100	[0.50]	Personal Financial Management
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
MCS*3020	[0.50]	Services Marketing
MCS*3040	[0.50]	Business and Consumer Law
STAT*2060	[0.50]	Statistics for Business Decisions
	10	• • • • •

# **European Culture and Civilization**

Students must take 5.00 credits including at least 0.50 credits from each of the following four groups. The remaining 3.00 credits may be chosen from any of the courses in the four groups.

[0.50]

Classical Mythology

GL A 5*2250	FO 501		EDEN#2020	[0, 50]	
CLAS*2350	[0.50]	The Classical Tradition	FREN*2020	[0.50]	France: Literature and Society
EURO*3150	[0.50]	Topics in European Film	FREN*2030	[0.50]	French Language II
FREN*1000	[0.50]	Understanding the French Speaking World	FREN*2520	[0.50] [0.50]	French Composition I
FREN*2500	[0.50] [0.50]	French Translation I (taught in French) Twentieth-Century French Novel (taught in French)	FREN*2540 FREN*3520	[0.50]	Spoken French: Theory and Practice French Composition II
FREN*3010 FREN*3020	[0.50]	Twentieth-Century French Theatre (taught in French)	FREN*3530	[0.50]	Business French
GERM*2240	[0.50]	Germany Through the Ages	OR	[0.50]	Busiliess French
HIST*2850	[0.50]	History of Greece and Rome	GERM*2400	[0.50]	Contemporary Germany
HUMN*2100	[0.50]	Renaissance Lovers and Fools	GERM*2490	[0.50]	Intermediate German I
HUMN*3020	[0.50]	Myth and Fairy Tales in Germany	GERM*2500	[0.50]	Intermediate German II
HUMN*3130	[0.50]	Women in Modern Spanish Fiction	GERM*2560	[0.50]	Themes in German Literature/Culture
HUMN*3170	[0.50]	Women, Virtue and Honour in Spanish Drama (taught in	GERM*3500	[0.50]	Advanced German
	[]	English)	One of:	[]	
HUMN*3450	[0.50]	20th Century German Literature and Film	GERM*2590	[0.50]	Classics of German Literature
HUMN*4170	[0.50]	Don Quixote and the Picaresque Novel (taught in English)	GERM*3530	[0.50]	German in the Workplace
Group B			OR		
HIST*1010	[0.50]	Europe and the Early Modern World	ITAL*2060	[0.50]	Intermediate Italian I
HIST*2200	[0.50]	The Medieval World	ITAL*2070	[0.50]	Intermediate Italian II
HIST*2820	[0.50]	Modern France, 1750-1992: From Louis XV to Mitterand	ITAL*3060	[0.50]	Advanced Italian
HIST*2830	[0.50]	The Emergence of Modern Germany 1871-1990	ITAL*3200	[0.50]	Novels of Resistance
HIST*3090	[0.50]	Nationalism and Internationalism in Europe 1914-1957	ITAL*3950	[0.50]	Topics in Italian Literature
HIST*3540	[0.50]	World War Two	One of:		
HIST*3570	[0.50]	Women in Modern Europe	ITAL*2100	[0.50]	Renaissance Lovers and Fools
HIST*3750	[0.50]	The Reformation	ITAL*3150	[0.50]	Medieval Italian Literature
HIST*3820	[0.50]	Early Modern France	OR		
HIST*4090	[0.50]	Modern European History	SPAN*2000	[0.50]	Spanish Language I
HIST*4470	[0.50]	Special History Project Seminar I	SPAN*2010	[0.50]	Spanish Language II
HIST*4570	[0.50]	Topics in Revolution	SPAN*2040	[0.50]	Spanish Civilization
HIST*4580	[0.50]	Topics in Revolution	SPAN*2990	[0.50]	Hispanic Literary Studies
Group C			SPAN*3500	[0.50]	Spanish Grammar and Composition I
ARTH*1510	[0.50]	Art Historical Studies I	SPAN*3530	[0.50] aradita from	Business Spanish each of Groups A, B, C and D from the following list:
ARTH*1520	[0.50]	Art Historical Studies II		ciedits from	each of Groups A, B, C and D from the following list.
ARTH*2550	[0.50]	The Italian Renaissance	Group A		
ARTH*2580	[0.50]	Late Modern Art: 1900-1950	CLAS*1000	[0.50]	Introduction to Classical Culture
ARTH*2600	[0.50]	Early Modern Art to 1900	CLAS*2000	[0.50]	Classical Mythology
ARTH*3100	[0.50]	Perspectives: Structure & Space in Western Art	CLAS*2350	[0.50]	The Classical Tradition
ARTH*3320	[0.50]	Lives: Aspects of Western Art	EURO*3150	[0.50]	Topics in European Film
ARTH*3330	[0.50]	Display: Visual Culture in Western Europe	FREN*1000	[0.50]	Understanding the French Speaking World
One of:			FREN*2500	[0.50]	French Translation I (taught in French)
ARTH*3340	[0.50]	The Art Object & Material Culture	FREN*3010	[0.50] [0.50]	Twentieth-Century French Novel (taught in French) Twentieth-Century French Theatre (taught in
ARTH*3640	[0.50]	Objects: Baroque Art and Rococo Art	FREN*3020	[0.50]	French)
MUSC*1060	[0.50]	Introduction to Music	GERM*2240	[0.50]	Germany Through the Ages
MUSC*2010	[0.50]	The Musical Avant-Garde	HIST*2850	[0.50]	History of Greece and Rome
MUSC*2280	[0.50]	Masterworks of Music	HUMN*2100	[0.50]	Renaissance Lovers and Fools
		urses may be counted if students with knowledge of music	HUMN*3020	[0.50]	Myth and Fairy Tales in Germany
coordinator.	rs by instruc	ctor. The substitution(s) must also be approved by the ESP	HUMN*3170	[0.50]	Women, Virtue and Honour in Spanish Drama
				[0.000]	(taught in English)
Group D			HUMN*3450	[0.50]	20th Century German Literature and Film
PHIL*2140	[0.50]	History of Greek and Roman Philosophy	HUMN*4170	[0.50]	Don Quixote and the Picaresque Novel (taught in
PHIL*2160	[0.50]	Modern European Philosophy to Hume			English)
PHIL*3060	[0.50]	Medieval Philosophy	Group B		
PHIL*3080	[0.50]	History of Modern European Philosophy from Kant	HIST*1010	[0.50]	Europe and the Early Modern World
PHIL*3200	[0.50]	Contemporary European Philosophy	HIST*2200	[0.50]	The Medieval World
POLS*2000	[0.50]	Political Theory	HIST*2510	[0.50]	The Emergence of Modern European Society
POLS*2100	[0.50]	The State in Comparative Perspective			1789-1945
POLS*2200 POLS*3460	[0.50] [0.50]	International Relations Communism and Post-Communism	HIST*2820	[0.50]	Modern France, 1750-1992: From Louis XV to
					Mitterand
	-	ulture and Civilization	HIST*2830	[0.50]	The Emergence of Modern Germany 1871-1990
		re and Civilization is designed for students interested in the	HIST*3090	[0.50]	Nationalism and Internationalism in Europe
		uropean culture and history. If offers a combination of	11107*2540	[0 50]	1914-1957 World Way Tree
	of Europear	n culture, literature, the arts, philosophy, history and political	HIST*3540	[0.50]	World War Two
science.			HIST*3570 HIST*3750	[0.50] [0.50]	Women in Modern Europe The Reformation
Note: the minor is	s not open to	o European Studies majors.	HIST*3820	[0.50]	Early Modern France
Program Requi	irements		HIST*4090	[0.50]	Modern European History
Note: some of the	courses belo	ow (the language courses, some 3000 and 4000 level courses	HIST*4470	[0.50]	Special History Project Seminar I
		equisites not included in the minor.	HIST*4570	[0.50]	Topics in Revolution
	A minimum of 5.50 credits, at least 1.00 of which must be at the 3000 level or above, is HIST*4580 [0.50] Topics in Revolution				
	required, including: Group C				
1. EURO*1200	[0.50]	European Culture from the Mid 18th to the Mid 19th	ARTH*1510	[0.50]	Art Historical Studies I
1. LORO 1200	[0.50]	Century	ARTH*1520	[0.50]	Art Historical Studies II
EURO*2200	[0.50]	-	ARTH*2550	[0.50]	The Italian Renaissance
2010 2200	[0.50]	1920's	ARTH*2580	[0.50]	Late Modern Art: 1900-1950
EURO*2300	[0.50]		ARTH*2600	[0.50]	Early Modern Art to 1900
		ge, at second or third year level, chosen from the following	ARTH*3100	[0.50]	Perspectives: Structure & Space in Western Art
list:	0		ARTH*3330	[0.50]	Display: Visual Culture in Western Europe
		Inh Undergraduate Colondar			Last Devision, Jonuary 28, 2008

One of:		
ARTH*3340	[0.50]	The Art Object & Material Culture
ARTH*3640	[0.50]	Objects: Baroque Art and Rococo Art
MUSC*1060	[0.50]	Introduction to Music
MUSC*2010	[0.50]	The Musical Avant-Garde
MUSC*2280	[0.50]	Masterworks of Music
Note: other music	c history co	urses may be counted if students with knowledge

**Note:** other music history courses may be counted if students with knowledge of music are granted waivers by instructor. The substitution(s) must also be approved by the ESP coordinator.

#### Group D

PHIL*2140	[0.50]	History of Greek and Roman Philosophy
PHIL*2160	[0.50]	Modern European Philosophy to Hume
PHIL*3060	[0.50]	Medieval Philosophy
PHIL*3080	[0.50]	History of Modern European Philosophy from Kant
PHIL*3200	[0.50]	Contemporary European Philosophy
POLS*2000	[0.50]	Political Theory
POLS*2100	[0.50]	The State in Comparative Perspective
POLS*2200	[0.50]	International Relations
POLS*3450	[0.50]	European Governments and Politics
POLS*3460	[0.50]	Communism and Post-Communism

# **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.

# **Practicum Opportunity:**

HUMN\*3501/2 is available for those students wishing to participate in a practicum experience as part of the year abroad. The practicum must be a job or volunteer experience that contributes to the student's area of study and intended career. It must be approved in advance as a Letter of Permission by the Coordinator. A final report, written in the student's chosen language, is a requirement of this course.

# Family and Child Studies (FCS)

#### Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences

Family and Child Studies is offered as a minor in the honours program. It is designed to provide students with an opportunity to pursue interdisciplinary studies which have a specific focus on human development over the life span and on the applied questions which relate to the needs of children and the functioning of families. Elective courses may be chosen to emphasize the family, the child, or a combination of the two. Students seeking counselling should consult with a departmental advisor in the Department of Family Relations and Applied Nutrition.

# **Minor (Honours Program)**

A minimum of 5.00 credits is required, including:

FRHD*1010	[0.50]	Human Development
FRHD*1020	[0.50]	Couple and Family Relationships
FRHD*2270	[0.50]	Development in Early and Middle Childhood
FRHD*3040	[0.50]	Parenting: Research and Applications
NUTR*1010	[0.50]	Nutrition and Society

A further 2.50 courses offered by the Department of Family Relations and Applied Nutrition (FRHD or NUTR\*2050), of which at least 1.50 must be at the 3000 level or above including at least 0.50 at the 4000 level.

**Note:** where students have or plan to have credit for PSYC\*2450, an alternative course to FRHD\*2270 must be selected, in consultation with the departmental advisor, from those offered under the Family Studies (FRHD) listings

#### 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\*1100. Francophone students may 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.

#### 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 the 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.

# 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:

- a. FREN\*1200, FREN\*2020, FREN\*2030, FREN\*2060, FREN\*2520, FREN\*3230
- b. at least 0.50 credits from FREN\*2500, FREN\*2540
- c. at least 2.00 additional credits from FREN\*3000, FREN\*3010, FREN\*3020, FREN\*3070, FREN\*3150, FREN\*3200, FREN\*3210, FREN\*3220, FREN\*3240, FREN\*3290, FREN\*3560
- d. at least 1.00 credits from FREN\*3500, FREN\*3520, FREN\*3530
- e. 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:

- a. FREN\*1200, FREN\*2020, FREN\*2030, FREN\*2060, FREN\*2520, FREN\*3520 b. 1.00 credits in French literature from FREN\*3000, FREN\*3010, FREN\*3020,
- FREN\*3070, FREN\*3240, FREN\*3290, FREN\*3560, FREN\*4300
- c. 1.00 additional credits from French

#### Notes:

- 1. Students are strongly urged to take 0.50 language credits each semester.
- Students in the general program may take 4000 level courses, but must previously have taken FREN\*3520.
- Students of French are encouraged to take advantage of the French residence on this campus. Applications for accommodation in the Maison Française should be made well in advance of registration.
- 4. FREN\*1000, FREN\*1090, FREN\*1100, FREN\*1150, FREN\*1120 are not counted toward a specialization in French.
- 5. Native speakers of French (or non-francophone equivalent) will not normally be admitted into FREN\*1200 and FREN\*2030. It is recommended they start their program with FREN\*2020, FREN\*2060, FREN\*2500, or FREN\*2520 with the approval of the Faculty Advisor.

# Geography (GEOG)

#### Department of Geography, College of Social and Applied Human Sciences

The Department of Geography provides students with a broad range of courses in Human and Physical Geography which focus on the nature and evolution of the numerous and complex physical and human environment systems of the world. Students are required to select courses from both the human and physical fields. Within the program of studies it is possible for students through course selection to follow a particular line of interest in, for example, Rural Geography, Resource Management, Urban and Economic Geography, Biophysical Resources or Geomorphology.

The 1000 level courses provide a foundation for the Geography programs and are prerequisites or are strongly recommended for many of the 2000 level courses. The 2000 level systematic courses are prerequisite to the corresponding advanced courses at the 3000 and 4000 level. All students should obtain a copy of the department program planning guide and consult with faculty before planning their course of studies.

Students contemplating graduate or professional programs of study following completion of the honours program should consult a departmental advisor for advice on additional courses that they should take.

The department also offers a B.SC. honours Earth Surface Science program (jointly with Land Resources Science), a B.SC.(ENV.) honours Environmental Geography Major program, and a B.SC. honours program Minor in Geographic Information Systems and Environmental Analysis which are described in the schedule of studies for each of the programs (Section X). Geography B.A. honours Majors are eligible to take the B.SC. Minor. All Geography students are encouraged to consult with a departmental advisor regarding course selection.

The following courses may be counted as Geography credits: 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

272 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 3	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 cr	redits in Geo	ography at the 3000 level or above including at least 1.50
credits at the 400	0 level.	

# Minor (Honours Program)

A minimum of 5.00 credits in Geography is required, including:

Two of:		
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
a		<b>2</b> 0001 1 1 1 1 1 1 1

3.00 credits in Geography at the 3000 level and including at least one course at the 4000 level.

# German (GERM)

#### School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Students with one year of high school German or equivalent may not be admitted into GERM\*1100. Students with OAC German may not be admitted into GERM\*1100 and GERM\*1110. Students with OAC German credit or its equivalent may be admitted into GERM\*1110 only with the approval of the department. 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 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. Requests should be addressed well in advance to either the department or a particular section of the department. A letter of permission is required (see the Section VIII--Undergraduate Degree Regulations & Procedures).

# Minor (Honours Program)

A minimum of 5	.00 credits i	n German is required, including:
GERM*2240	[0.50]	Germany Through the Ages
GERM*2490	[0.50]	Intermediate German I
GERM*2500	[0.50]	Intermediate German II
GERM*2560	[0.50]	Themes in German Literature/Culture
GERM*2590	[0.50]	Classics of German Literature
GERM*3500	[0.50]	Advanced German
2.00 credits from	GERM*1	100 or GERM*1110) GERM*2400 GEI

2.00 credits from (GERM\*1100 or GERM\*1110), GERM\*2400, GERM\*3020, GERM\*3450, GERM\*3460, GERM\*3470, GERM\*3530

Note that for students beginning with GERM\*1100 or GERM\*1110 a maximum of 2.50 language credits is allowed. For students with OAC German or equivalent, a maximum of 2.00 language credits is allowed. Language courses beyond the 1000 level include GERM\*2490, GERM\*2500, GERM\*3500, GERM\*3530.

Students enrolled in the German program must contact the School of Languages and Literatures for an up-to-date sequence of course offerings.

# History (HIST)

# Department of History, College of Arts

Courses marked (H) are designed as honours courses. Students in a general program wishing to take these must obtain the permission of instructors concerned. All other courses may be taken by both general and honours students. Students wishing to take a 3000 level course must have pass standing in at least 5.00 credits in university courses.

Students wishing to take a 4000 level course must have pass standing in at least 10.00 university credits. Access to all 4000 level history courses is restricted to students in the B.A. Honours program with at least a 70% average in all history course attempts. Students should note the prerequisite requirements of upper level courses in planning their individual programs.

Students entering semester 1 are advised to choose from 1000 level courses. Second semester students wishing to take an advanced level History course should select that course from the History core.

## **Core Requirements**

- a. HIST\*1010, HIST\*2100, HIST\*2450, HIST\*2600
- b. 0.50 credits from each of a) Pre-Modern; b) Developing World; and c) Thematic. Course lists available in the Department of History and at http://www.uoguelph.ca/history/.

# Area of Concentration (General Program)

A minimum of 5.00 credits in History is required, including:

- a. at least 1.50 credits in History must be at the 3000 level (excluding HIST\*3470 )
- b. students should take the History Core Requirements

**Note:** With the permission of the department, students may select as part of their program 0.50 credits outside the History Department such as ECON\*2420, ECON\*3730, EURO\*4600, WMST\*4010.

# Major (Honours Program)

A minimum of 8.00 credits in History courses is required, including:

- a. the History Core Requirements
- b. 4.50 additional credits in History including 1.00 at the 4000 level (excluding HIST\*4470 and HIST\*4970) and an additional 0.50 credits at the 4000 level which may include either HIST\*4470 or HIST\*4970

# Minor (Honours Program)

A minimum of 5.00 credits in History is required, including:

- a. the History Core Requirements
- b. 1.50 other credits in History including 1.00 at the 4000 level

**Note:** Honours students in History may, with the permission of the department, take up to 1.00 credits from outside the department such as ECON\*2420, ECON\*3730, EURO\*4600, WMST\*4010. Students considering graduate work are advised to take 2.00 - 3.00 additional upper level History credits perhaps including the Special History Project Seminar (HIST\*4470, HIST\*4970) and to acquire a reading knowledge of a foreign language. Honours students must complete HIST\*2450 by the end of their third semester to be eligible for 3000 level History courses.

# Individual Studies (IS)

#### Interdisciplinary Program

#### B.A. Counselling Office, Room 130, MacKinnon Building, Ext. 52140.

Honours B.A. students have the option of doing an Individual Studies Major. Students in the Individual Studies Major have the opportunity to determine the goals and methods of their studies. Areas of study can include courses in any of the colleges and where the University of Guelph has faculty expertise to assist students. Students are encouraged to develop an interdisciplinary perspective, and to explore the methods of inquiry which provide depth of knowledge in a specific subject.

A student submitting a proposal for the Individual Studies Major must submit the complete proposal to the B.A. Program Counsellor before the third week of classes of semester four. The B.A. Program Committee will consider proposals once, and will approve, approve with revisions, or deny the proposal. Proposals cannot be resubmitted.

Proposals will not be considered unless they articulate a detailed rationale for a coherent program of studies that is significantly different from any existing major and minor combination at the University of Guelph, and unless the proposal meets the following criteria:

- a. minimum of 9.00 credits
- b. minimum of 4.00 credits at the 3000 level and above, including at least 1.00 credits at the 4000 level
- c. minimum of 1.00 credits in methods and/or theory
- d. maximum of 1.50 credits at the 1000 level

e. a senior level Directed Readings or Special Project course must be completed. When appropriate, the Committee will identify a faculty member as the supervisor for a student's course of study.

A student wishing to submit a proposed program of studies for the Individual Studies Major must prepare a proposal that will include the following:

- a. a clear statement of theme or areas of study
- b. a clear statement of the contribution of the major to a post-graduation field of work or study
- c. a clearly set out rationale for inclusion of the specific courses and how they relate to or develop the theme or areas of study
- d. a list of required "core" courses and "restricted electives" following the above criteria. When proposing core and restricted elective credits, students should keep in mind the prerequisites for their desired 3000 and 4000 level courses

**Note:** Students undertaking the Individual Studies Major must fulfill the requirements of the B.A. Honours Program as set out in Section X. The B.A. Program Counsellor is the academic counsellor. The Individual Studies designation will appear on the student's transcript upon graduation, but the title or subject of the major will not.

#### Information Systems and Human Behaviour (ISHB)

#### Interdisciplinary Program

As computers and communications play progressively more subtle and significant roles in society, this program of study brings together the elements of 3 disciplines to provide students with an understanding of technical, 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 Sociology and Anthropology. Students in this program will be advised by the program coordinator in the Department of Computing and Information Science.

#### **Major (Honours Program)**

#### **Computing and Information Science Courses**

	Computing and	morma	tion 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 Cou	rses		
	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 lev	el Psychology course	
Sociology and Anthropology Courses				
	ANTH*1150	[0.50]	Introduction to Anthropology	
	SOC*1100	[0.50]	Sociology	
	SOC*2190	[0.50]	Technology and Society	
	SOAN*3070	[0.50]	Qualitative and Observational Methods	
	0.50 electives from a 4000 level course in ANTH, SOAN or SOC			
	<b>Statistics Cours</b>	es		
	STAT*2040	[0.50]	Statistics I	
	<b>T</b> ( ) <b>1</b>			

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International Development (ID)
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#### **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 5.00 credits is required, including:

A minimum of 5.0	o creatts is	required, including.
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*2010	[0.50]	International Development Studies
POLS*2080	[0.50]	Development and Underdevelopment
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:		
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3790	[0.50]	The Political Economy of International Relations

# Major (Honours Program)

A minimum of 12.00 credits is required, including the core of 7.00 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*2010	[0.50]	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	n an approv	ved 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:		
ANTH*2160	[0.50]	Social Anthropology ***
EDRD*4020	[0.50]	Rural Extension in Change and Development
SOC*2080	[0.50]	Rural Sociology ****
One of:		
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3790	[0.50]	The Political Economy of International Relations
* students must complete IDEV*2010 before Semester 5		
		e IDEV*4500 in their final year of study
*** ANTH*2160	is recomme	nded for the Gender area of emphasis

\*\*\*\* SOC\*2080 is recommended for the Rural area of emphasis

#### Areas of Emphasis

#### **Environment and Development**

GEOG*1220 GEOG*1300 GEOG*2210 GEOG*3210	[0.50] [0.50] [0.50] [0.50]	Human Impact on the Environment Introduction to the Biophysical Environment Environment and Resources Management of the Biophysical Environment
One of:	10 501	
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
HIST*2250	[0.50]	Environment and History
PHIL*2070	[0.50]	Philosophy of the Environment
POLS*3370	[0.50]	Environmental Policy Formation and Administration

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SOC*2280	[0.50]	Society and Environment	HIST*2930	
SOC*3380	[0.50]	Society and Nature	HIST*3580	
<b>Choose Option A</b>	or B		PHIL*2060	
Option A - Biophy			POLS*3160	
GEOG*2460	[0.50]	Analysis in Geography	POLS*3710	
Two of:			WMST*2000	
GEOG*2110	[0.50]	Climate and the Biophysical Environment	WMST*3000	
GEOG*2480	[0.50]	Mapping and GIS	WMST*3010	
GEOG*3020	[0.50]	Global Environmental Change	0.50 additional c	redi
GEOG*3110	[0.50]	Biotic and Natural Resources	Historical Per	spe
GEOG*3610	[0.50]	Environmental Hydrology	HIST*2450	[
GEOG*3620	[0.50]	Desert Environments	One of:	Ľ
Two of:			HIST*1010	
ENVS*4220	[0.50]	Environmental Impact Assessment	HIST*1150	
GEOG*3480	[0.50]	GIS and Spatial Analysis	Two of:	
GEOG*4110	[0.50]	Environmental Systems Analysis	HIST*2070	
GEOG*4210	[0.50]	Environmental Governance	HIST*2110	
GEOG*4250	[0.50]	Coastal Processes	HIST*2250	
GEOG*4480	[0.50]	Applied Geographic Information Systems	HIST*2500	
Option B - Humar	n Environm	ent	HIST*2800	
GEOG*2260	[0.50]	Applied Human Geography	HIST*2890	
Two of:			HIST*2910	
GEOG*2480	[0.50]	Mapping and GIS	HIST*2920	
GEOG*3020	[0.50]	Global Environmental Change	HIST 2920 HIST*2960	
GEOG*3090	[0.50]	Gender and Environment	Three of the follo	wir
GEOG*3320	[0.50]	Agriculture and Society	ECON*2420	<i>y v</i> 11
GEOG*3490	[0.50]	Tourism and Environment	ECON*3720	
GEOG*3600	[0.50]	Geography of a Selected Region	ECON*3730	
Two of:			HIST*3070	
ENVS*4220	[0.50]	Environmental Impact Assessment	HIST*3070	
GEOG*3480	[0.50]	GIS and Spatial Analysis	HIST*3270	
GEOG*4200	[0.50]	Seminar in Urban Geography	HIST *3310	
GEOG*4210	[0.50]	Environmental Governance	HIST*3380	
GEOG*4390	[0.50]	Seminar in Rural Geography	HIST*3380	
GEOG*4480	[0.50]	Applied Geographic Information Systems	HIST*3410 HIST*3420	
Economic and			HIST*3420 HIST*3430	
BUS*2220	[0.50]	Financial Accounting	HIST*3430 HIST*3470	
ECON*2310	[0.50]	Intermediate Microeconomics	HIST*3580	
		Intermediate Macroeconomics		
ECON*2410	[0.50]	Economic Statistics *	HIST*3590 HIST*3910	
ECON*2740	[0.50]	Economic Statistics *		
Two of:	IO 501	Decement Francisco	Two of: HIST*4100	
AGEC*4310	[0.50]	Resource Economics		
ECON*4720	[0.50]	Topics in Economic History	HIST*4120	
ECON*4830	[0.50]	Economic Development	HIST*4280	
ECON*4880	[0.50]	Topics in International Economics	HIST*4470	
ECON*4890	[0.50]	History of Economic Thought	HIST*4560	
ECON*4900	[0.50]	Special Study in Economics	HIST*4570	
ECON*4930	[0.50]	Environmental Economics	HIST*4580	
		2000 level or above in AGEC or ECON, at least 0.50 being ing at the 3000 level or above.	HIST*4670 HIST*4900	
0.50 additional cre HIST, IDEV, ISS,		regional focus at the 2000 level or above in ANTH, GEOG, AN or SOC.	0.50 additional cr IDEV, ISS, POL	
* Entry into ECO		uires one of MATH*1000, MATH*1050, MATH*1080,	Latin America	
MATH*1200.			SPAN*1110	[(
Gender and De	velopmen	t	SPAN*2000	[(
SOAN*2120	[0.50]	Introductory Methods	SPAN*2010	[(
SOAN*4240	[0.50]	Women and the Development Process	SPAN*3500	[

SOAN*2120 [0.50] Introductory Methods	
SOAN*4240 [0.50] Women and the Development Process	
Two of the following not taken as part of the core:	
ANTH*2160 [0.50] Social Anthropology	
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	
Two 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	
ANTH*3840 [0.50] Seminar in Anthropology	
SOAN*3100 [0.50] Gender Perspectives on Families and Househ	olds
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*3580	[0.50]	Women's History in Asia
PHIL*2060	[0.50]	Philosophy of Feminism I
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 cro	edits at the 4	000 level in ANTH, SOAN, or SOC
<b>Historical Pers</b>		
HIST*2450	[0.50]	The Practicing Historian
One of:	[	
HIST*1010	[0.50]	Europe and the Early Modern World
HIST*1150	[0.50]	20th-Century Global History
Two of:	[0.00]	
HIST*2070	[0.50]	World Religions in Historical Perspective
HIST*2110	[0.50]	The Atlantic World 1500-1850
HIST*2250	[0.50]	Environment and History
HIST*2500	[0.50]	Britain and the World Since 1600
HIST*2800	[0.50]	The History of the Modern Family
HIST*2890	[0.50]	History of the Islamic World
HIST*2910	[0.50]	History of Modern Asia
HIST*2920	[0.50]	Republican Latin America
HIST*2960	[0.50]	Topics in the History of Slavery
		en 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 South Asia
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]	The History of 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 South Asia
HIST*3910	[0.50]	Africa Since 1800
Two of:	[0.50]	
HIST*4100	[0.50]	Africa and the Slave Trades
HIST*4120	[0.50]	Topics in Global History
HIST*4280	[0.50]	Poverty and Policy in the Victorian Age
HIST*4470	[0.50]	Special History Project Seminar I
HIST*4560	[0.50]	Topics in Revolution
HIST*4570	[0.50]	Topics in Revolution
HIST*4580	[0.50]	Topics in Revolution
HIST*4670	[0.50]	Seminar in Science and Society
HIST*4900	[0.50]	Imperialism and Nationalism in South Asia
		egional focus at the 2000 level or above in ANTH, G

lits with a regional focus at the 2000 level or above in ANTH, GEOG, SOAN or SOC.

# Studies

maintains a list of appropriate courses.

in Studies			
[0.50]	Intermediate Spanish		
[0.50]	Spanish Language I		
[0.50]	Spanish Language II		
[0.50]	Spanish Grammar and Composition I		
[0.50]	Research Methods I: Political Inquiry and Methods		
[0.50]	Introductory Methods		
[0.50]	Republican Latin America		
[0.50]	Politics of Latin America		
[0.50]	Social Change in Latin America		
[0.50]	Hispanic Literary Studies		
[0.50]	Spanish American Culture		
Choose Option A or B			
Option A:			
Any 1.50 additional credits in SPAN at the 3000 level or above, at least 0.50 being at the			
4000 level.			
Option B:			
Any 1.50 additional credits in ANTH, ECON, GEOG, HIST, IDEV, ISS, POLS, SOAN,			
or SOC with a focus on Latin America or the Caribbean at the 3000 level or above, at			
least 0.50 being at the 4000 level. The faculty advisor for International Development			
	[0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] or B al credits in sus on Latin		

#### 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]	The State in Comparative Perspective
POLS*2200	[0.50]	International Relations
Two of the follow	ing not take	n as part of the core:
AGEC*4310	[0.50]	Resource Economics
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

1.00 additional credits in POLS at the 3000-level, not taken as part of the core.

1.00 additional credits in POLS at the 4000 level

# Rural and Agricultural Development

SOAN*2120	[0.50]	Introductory Methods
One of the following not taken as part of the core:		
ANTH*2160	[0.50]	Social Anthropology
ANTH*2230	[0.50]	Regional Ethnography
SOC*2080	[0.50]	Rural Sociology
One of:		
GEOG*3480	[0.50]	GIS and Spatial Analysis
SOAN*3070	[0.50]	Qualitative and Observational Methods
SOAN*3120	[0.50]	Quantitative Methods
Two of the follow	ing not take	n as part of the core:
AGEC*4210	[0.50]	World Agriculture and Economic Development
ANTH*3670	[0.50]	Indigenous Peoples: Global Context
ANTH*3690	[0.50]	History of Anthropological Thought
SOAN*3250	[0.50]	Social Change in Latin America
SOAN*3680	[0.50]	Perspectives on Development
SOC*3380	[0.50]	Society and Nature
Any REXT con	urses at the 3	3000 level or above.
Two of:		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
AGR*1250	[0.50]	Agrifood System Trends & Issues
AGR*2500	[0.50]	Field Trip in International Agriculture
BIOL*1030	[0.50]	Biology I
BIOL*1040	[0.50]	Biology II
CROP*2050	[0.50]	Gateway to Organic Agriculture
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
SOIL*2010	[0.50]	Soil Science
SOIL*2120	[0.50]	Introduction to Environmental Stewardship

0.50 additional credits at the 3000 or 4000 levels in AGR, CROP, ENVB, GEOL, HORT, SOIL or any biophysical course in GEOG.

1.00 additional credits in ANTH, SOAN or SOC at the 4000 level.

#### **Minor (Honours Program)**

	0	·
A minimum of 5.50 credits is required, including:		
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*2010	[0.50]	International Development Studies
POLS*2080	[0.50]	Development and Underdevelopment
SOAN*3680	[0.50]	Perspectives on Development
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:		
POLS*3670	[0.50]	Comparative Public Policy and Administration
POLS*3790	[0.50]	The Political Economy of International Relations
Italian (ITAL	)	

#### School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Students with Year 4 or OAC 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

#### Study Abroad

The School of Languages and Literatures encourages students in modern languages to spend 1 or 2 semesters in another country to study a particular language at the university level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. Requests should be addressed well in advance to either the School or a particular section of the School. A letter of permission is required (see Section VIII--Undergraduate Degree Regulations and Procedures.)

Italian may be taken as a minor in the honours program. Students in Italian will be counselled by the School of Languages and Literatures.

#### Minor (Honours Program)

A minimum of 5.00 credits is required, including:

- a. ITAL\*2060, ITAL\*2070, ITAL\*3060
- b. two of the following courses ITAL\*2100, ITAL\*3150, ITAL\*3200
- c. 1.50 additional credits from List A
- d. at least 1.00 credits from List B

#### List A

LIST A		
ITAL*1060	[0.50]	Introductory Italian I
ITAL*1070	[0.50]	Introductory Italian II
ITAL*2100	[0.50]	Renaissance Lovers and Fools
ITAL*3150	[0.50]	Medieval Italian Literature
ITAL*3200	[0.50]	Novels of Resistance
ITAL*3950	[0.50]	Topics in Italian Literature
ITAL*3960	[0.50]	Topics in Italian Literature
ITAL*3970	[0.50]	Topics in Italian Literature
ITAL*4900	[0.50]	Research Paper in Italian Studies
List B		
ARTH*2540	[0.50]	Medieval Art
ARTH*2550	[0.50]	The Italian Renaissance
ARTH*2950	[0.50]	Baroque Art
ARTH*3100	[0.50]	Perspectives: Structure & Space in Western Art
ARTH*3150	[0.50]	Space: Roman Art and Urbanism
ARTH*3310	[0.50]	Image: Pictures & Their Power
ARTH*3320	[0.50]	Lives: Aspects of Western Art
One of:		
ARTH*3340	[0.50]	The Art Object & Material Culture
ARTH*3640	[0.50]	Objects: Baroque Art and Rococo Art
CLAS*1000	[0.50]	Introduction to Classical Culture
CLAS*2000	[0.50]	Classical Mythology
HIST*2200	[0.50]	The Medieval World
HIST*2850	[0.50]	History of Greece and Rome
HIST*3750	[0.50]	The Reformation
LAT*1100	[0.50]	Preliminary Latin I
LAT*1110	[0.50]	Preliminary Latin II
LAT*2000	[0.50]	Latin Literature
LING*1000	[0.50]	Introduction to Linguistics
PHIL*2140	[0.50]	History of Greek and Roman Philosophy
PHIL*3060	[0.50]	Medieval Philosophy

# Marketing Management (MKMN)

Department of Marketing and Consumer Studies, College of Management and Economics

A Marketing Management minor is designed for students who wish to pursue interdisciplinary studies that consider consumers and the marketplace, consumers and their decision processes and behaviours, markets and their structure and various interactive relationships, and issues concerning market management.

Students who wish to declare the Marketing Management Minor specialization must apply directly to the Department. In order to be eligible, applicants must have a cumulative average of 70% or better in all course attempts towards the minor.

# **Minor (Honours Program)**

A minimum of 5.00 credits is required, including:

BUS*2220	[0.50]	Financial Accounting	
ECON*1050	[0.50]	Introductory Microeconomics	
ECON*1100	[0.50]	Introductory Macroeconomics	
MCS*1000	[0.50]	Introductory Marketing	
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour	
One of:			
HTM*2200	[0.50]	Organizational Behaviour I	
ISS*2500	[0.50]	Management in Organizations	
2.00 mastriated ala	2.00 motivity dialections from the list of <b>P</b> opticity diFlorting 1.00 of which must be at the		

2.00 restricted electives from the list of Restricted Electives, 1.00 of which must be at the 3000 or 4000 level

# **Restricted Electives**

AGEC*4360	[0.50]	Marketing Research
AGEC*4370	[0.50]	Food & Agri Marketing Management
ECON*2200	[0.50]	Industrial Relations
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2720	[0.50]	Business History
ECON*3200	[0.50]	Economics of Industrial Relations
ECON*3560	[0.50]	Theory of Finance
MCS*2020	[0.50]	Information Management
MCS*3020	[0.50]	Services Marketing
MCS*3030	[0.50]	Research Methods
MCS*3040	[0.50]	Business and Consumer Law
MCS*3100	[0.50]	Economic Behaviour of Households
MCS*3600	[0.50]	Consumer Information Processes
MCS*4050	[0.50]	The Evolution of Capitalism: A Canadian Perspective
One of:		
ECON*2740	[0.50]	Economic Statistics
STAT*2060	[0.50]	Statistics for Business Decisions

# Mathematical Economics (MAEC)

# Department of Economics, 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.

**Note:** Students approaching the end of their program are strongly advised to take, by arrangement with the departmental advisor, at least one of the Special Study in Economics courses (ECON\*4900, ECON\*4910).

# Major (Honours Program)

U X	0	·
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 re	estricted ele	ectives*
Semester 5		
ECON*3710	[0.50]	Advanced Microeconomics
2.00 electives or re	estricted ele	ctives*
Semester 6		
ECON*3100	[0.50]	Game Theory
ECON*3600	[0.50]	Macroeconomics in an Open Economy
1.50 electives or re	estricted ele	ctives*
Semester 7		
ECON*4640	[0.50]	Applied Econometrics I
ECON*4710	[0.50]	Advanced Topics in Microeconomics
ECON*4870	[0.50]	Mathematical Economics: Dynamics
1.00 electives or restricted electives*		
Semester 8		
ECON*4810	[0.50]	Advanced Macroeconomic Theory
ECON*4900	[0.50]	Special Study in Economics
One of:		
ECON*4840	[0.50]	Applied Econometrics II
MATH*3200	[0.50]	Real Analysis
STAT*4080	[0.50]	Data Analysis
STAT*4340	[0.50]	Statistical Inference
STAT*4350	[0.50]	Applied Multivariate Statistical Methods
STAT*4360	[0.50]	Applied Time Series Analysis
1.00 electives		

\*at least 1.00 of the 4.00 restricted electives must be from Mathematics and 1.00 must be from Statistics. The remaining 2.00 can be from either subject area. Of the 4.00 credits, at least 1.00 must be at the 3000 level or above and the remaining 3.00 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 4U Advanced Function and Calculus or OAC Calculus should consult with the departmental advisor. Students without 4U Geometry and Discrete Mathematics or OAC Algebra and Geometry should take MATH\*2150 and then MATH\*2160.

# **Core Requirements for Honours**

-			
MATH*1200	[0.50]	Calculus I	
MATH*1210	[0.50]	Calculus II	
MATH*2000	[0.50]	Set Theory	
MATH*2160	[0.50]	Linear Algebra I	
MATH*2200	[0.50]	Advanced Calculus I	
Note: For both a major and a minor, it is strongly recommended that PHIL*2110 be			
included as an elective and be taken as early as possible.			

# Major (Honours Program)

A minimum of 8.00 credits is required, including:

a. the Mathematics	core requirements
a. the mathematics	core requirements

- b. MATH\*2210
- c. MATH\*3200
- d. STAT\*2040
- e. 0.50 credits in Statistics
- f. 0.50 credits in Computing Science (from CIS\*1500 or higher)
- g. 3.00 additional credits in Mathematics from courses at the 2000 level or above, including 1.00 at the 3000 level and 1.00 at the 4000 level

# 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

# Museum Studies (MS)

#### School of Fine Art and Music

The Minor program in Museum Studies offers an introduction to museum culture from both theoretical and practical perspectives. Courses in the program cover the history of museums, examination of assumptions that have guided the collecting and classifying of visual culture, and consideration of how these institutions serve the needs of national and group identity construction.

This program of study is designed as a complement to a significant number of Major specializations, 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 of	credits in Art	History including:
	ARTH*2120	[0.50]	Introduction to Museology
	ARTH*2480	[0.50]	Introduction to Art Theory and Criticism
	ARTH*3220	[0.50]	Nationalism and Identity in Art
	ARTH*3330	[0.50]	Display: Visual Culture in Western Europe

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ARTH\*4620 [0.50] Museum Studies 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 a 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 (MUSC\*1090) 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. Students who wish to continue to the 2000 level in Applied Music must be enrolled in a Music program, general program; area of concentration; honours program, major or minor.

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 enrol in Applied Composition, students must be registered in a Music program: Area of Concentration (General Program), Major or Minor (Honours Program). Applied Composition courses are designed to be taken during successive Fall and Winter terms. If this sequence is interrupted for more than one semester, students 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 the general program area of concentration and honours program major must complete the following courses:

MUSC*1180	[0.50]	Musicianship I
MUSC*1250	[0.50]	Melody and Counterpoint
MUSC*2360	[0.50]	Tonal Harmony I
MUSC*2370	[0.50]	Tonal Harmony II
MUSC*2600	[0.50]	Music History: Chant to Josquin
MUSC*2610	[0.50]	Music History: The Reformation to J.S. Bach
MUSC*2620	[0.50]	Music History: Classical and Romantic Eras
MUSC*3630	[0.50]	20th Century Music
Note: MUSC*11	20 doos not	count toward aither the Major (Honours) Minor (Ho

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 5.50 Music credits is required, including:

- a. the Music core
- b. at least 1.00 Music credits at the 3000 level or above
- c. two of MUSC\*2530, MUSC\*2540, MUSC\*2550, MUSC\*2560.

# Major (Honours Program)

A minimum of 8.50 Music credits is required, including:

- a. the Music core
- b. two of MUSC\*2530, MUSC\*2540, MUSC\*2550, MUSC\*2560.
- c. one of MUSC\*2110, MUSC\*2140, MUSC\*2150, MUSC\*2200
- d. one of MUSC\*2100, MUSC\*2220
- e. MUSC\*4401/2

f. 2.00 additional credits at the 3000 or 4000 level

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.

Last Revision: January 28, 2008

Honours students considering graduate work in ethnomusicology, performance, theory, and other music specializations should consult the School Director or a faculty adviser 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.

# **Organizational Behaviour (OBEH)**

#### Department of Psychology, College of Social and Applied Human Sciences

The study of behaviour and the behavioural processes of individuals and groups within organizations is an especially important focus for those interested in human welfare and productivity. The Minor in Organizational Behaviour is for students seeking to broaden their knowledge beyond their major area of study and may be of particular value for those interested in the dynamics of organizational structures within the private and/or public domains. Although this program should provide a meaningful complement for a significant number of Major options, the program might be of particular interest to those students considering a future management and/or business career.

#### 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					
2.00 credits in 4 Psychology Core Courses, to include PSYC*2310							
PSYC*2010	[0.50]	Quantification in Psychology					
PSYC*3060	[0.50]	Occupational Health Psychology					
PSYC*3070	[0.50]	Psychology in Human Resource Management					
PSYC*3080	[0.50]	Organizational Psychology					
PSYC*3250	[0.50]	Psychological Measurement					
0.50 111.1 1	1 D	1 1					

0.50 additional credits in Psychology

Students should note the availability of courses PSYC\*3900 and PSYC\*3910 when considering potential Psychology electives which would fulfil this requirement. When selecting open electives for completion of the degree, students with this minor should consider selecting the following courses: HTM\*4390 and SOAN\*2040.

**Note:** Courses designated with (H) in Section XII--Course Descriptions are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

# 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
- b. 1 of PHIL\*2110, PHIL\*2130, PHIL\*2180, PHIL\*3180, PHIL\*3190, PHIL\*3240, PHIL\*3250, PHIL\*3420, PHIL\*3910, PHIL\*3920, PHIL\*3930, PHIL\*4360, PHIL\*4370, PSYC\*3280
- c. 1 of PHIL\*2030, PHIL\*2060, PHIL\*2070, PHIL\*2120, PHIL\*2600, PHIL\*3040, PHIL\*3050, PHIL\*3230, 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.

#### Major (Honours Program)

A minimum of 8.50 credits is required, including:

- a. PHIL\*2110, PHIL\*2120, PHIL\*2140, PHIL\*2160, PHIL\*3080
- b. 2 of PHIL\*2170, PHIL\*2180, PHIL\*3180, PHIL\*3190, PHIL\*3240, PHIL\*3250, PHIL\*4360, PHIL\*4370, PSYC\*3280
- c. 2 of PHIL\*2060, PHIL\*3050, PHIL\*3230, PHIL\*4310, PHIL\*4340
- d. 2 of PHIL\*2030, PHIL\*2070, PHIL\*2130, PHIL\*2600, PHIL\*3130, PHIL\*3200, PHIL\*3420, PHIL\*3910, PHIL\*3920, PHIL\*3930, PHIL\*4060
- e. 3.00 additional credits in Philosophy

Note: Students must have at least 3.50 credits in Philosophy at the 3000 level or above, and at least 1.50 of these at the 4000 level.

Students planning to do graduate studies in philosophy should take PHIL\*2110, PHIL\*2120, PHIL\*2140, PHIL\*3080, PHIL\*3130, PHIL\*3200, PHIL\*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\*3180, PHIL\*3190, PHIL\*3240, PHIL\*3250, PHIL\*4360, PHIL\*4370, PSYC\*3280
- c. 1 of PHIL\*2060, PHIL\*2120, PHIL\*3050, PHIL\*3230, PHIL\*4310, PHIL\*4340
- d. 1 of PHIL\*2030, PHIL\*2070, PHIL\*2130, PHIL\*2600, PHIL\*3130, PHIL\*3200, PHIL\*3420, PHIL\*3910, PHIL\*3920, PHIL\*3930, PHIL\*4060
- e. 3.00 additional credits in Philosophy

**Note:** Students must have at least 3.50 credits in Philosophy at the 3000 level or above, and at least 1.50 of these at the 4000 level.

# 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: Theory and Analysis, Canada and the Americas, Public Policy and Administration, and Comparative / International Development. These areas are listed below to identify 3000 level courses that fulfill prerequisites for selected 4000 level courses (see course descriptions). A brochure describing each of these fields of study, and containing further course information, is available from the departmental office. The Department of Political Science also participates in several interdisciplinary programs, including European Studies and International Development 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 four fields in the department
- d. 2.00 credits at the 4000 level, two of which may include the POLS\*4970/POLS\*4980 Honours Thesis \*\*

\*\* 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

Choices for fulfillment of prerequisites for 4000 level courses (see course descriptions for corresponding requirements).

# 4000 Level Prerequisites

# **Political Theory and Analysis**

			-J ~~~	
	POLS*3220	[0.50]	Classical Political Thought	
	POLS*3230	[0.50]	Modern Political Thought	
	POLS*3280	[0.50]	Modern Political Ideologies	
	POLS*3710	[0.50]	Politics and Sexuality	
Canada and the Americas				
	POLS*3050	[0.50]	Canadian Political Parties, Elections and Pressure Groups	

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*3270	[0.50]	Local Government in Ontario	
POLS*3330	[0.50]	Politics and Trade Liberalization in the Americas	
POLS*3390	[0.50]	Comparative Democratic Institutions	
POLS*3410	[0.50]	U.S. Politics and Government	
POLS*3730	[0.50]	The Americas	
Public Policy :	and Admi	nistration	
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*3370	[0.50]	Environmental Policy Formation and Administration	
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics	
POLS*3470	[0.50]	Business-Government Relations in Canada	
POLS*3670	[0.50]	Comparative Public Policy and Administration	
POLS*3930	[0.50]	Politics of the Agri-Food System	
POLS*3940	[0.50]	Accountability and Canadian Government	
Comparative/	Internatio	nal Development	
POLS*3000	[0.50]	Politics of Africa	
POLS*3060	[0.50]	Politics of the Middle East and North Africa	
POLS*3070	[0.50]	The Politics of Asian Development	
POLS*3080	[0.50]	Politics of Latin America	
POLS*3160	[0.50]	Women and Politics in the Third World	
POLS*3320	[0.50]	Politics of Aid & Development	
POLS*3330	[0.50]	Politics and Trade Liberalization in the Americas	
POLS*3390	[0.50]	Comparative Democratic Institutions	
POLS*3410	[0.50]	U.S. Politics and Government	
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics	
POLS*3450	[0.50]	European Governments and Politics	
POLS*3460	[0.50]	Communism and Post-Communism	
POLS*3490	[0.50]	Conflict and Conflict Resolution	
POLS*3670	[0.50]	Comparative Public Policy and Administration	
POLS*3730	[0.50]	The Americas	
POLS*3790	[0.50]	The Political Economy of International Relations	
POLS*3890	[0.50]	Government and Politics of India	
POLS*3920	[0.50]	Modern China	

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)

F

# 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 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

# Minors

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Students interested in a Minor in Psychology should examine the schedule of studies for the Minors in Cognitive Neuropsychology, Developmental Psychology, Educational Psychology, Organizational Behaviour, or Social Psychology. Within the BA Degree program, these are the only Honours Minors available from the Psychology Department. The department does not offer Psychology as an Honours BA Minor, or as an Area of Concentration in the General BA Program.

# Note on Honours Courses

Courses marked (H) are designed for students in a psychology honours program, the Information Systems and Human Behaviour program, the Developmental Psychology Minor program, the Educational Psychology Minor program, the Organizational Behaviour

#### X. Degree Programs, Bachelor of Arts (B.A.)

Minor program, the Social Psychology program, the Cognitive Neuropsychology Minor program, or Human Resources Management major of the Bachelor of Commerce program. Students in other programs wishing to take these courses must obtain the permission of the instructors concerned. Unless otherwise specified, all other courses may be taken by general, honours, and students from other programs, providing the prerequisites are met. Courses designated with (H) are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology, or registration in either the HRM Major or ISHB Major.

#### **Core Requirements**

Each of the Psychology programs requires that students complete at least 6 of the following 2000 level Psychology courses (3.00 credits). 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.

However, students should take the 3000 level methodology courses PSYC\*3320(H), PSYC\*3370(H) and PSYC\*3380 (H) as early as possible, even though 4 core courses may not have been taken.

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 leve	el Psycholo	bgy core courses listed above
PSYC*2010	[0.50]	Quantification in Psychology
PSYC*2360	[0.50]	Introductory Research Methods
PSYC*3250	[0.50]	Psychological Measurement
PSYC*3320	[0.50]	Statistical Principles in Psychological Research
4 50 1 11 1 1		20001 1 1 (0 1 1 1 1 1 1 1 7

1.50 additional credits at the 3000 level or above (Students electing to take PSYC\*3370 and PSYC\*3380 will need to select only 0.50 additional credits at the 3000 level or above in order to satisfy this requirement.) (see Graduate Advisory Note).

1.50 additional psychology credits at the 4000 level (See Graduate 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\*3320 SHOULD NORMALLY BE COMPLETED BY THE END OF SEMESTER 4.
- 4. NOTE: that PSYC\*3320 is a prerequisite for PSYC\*3370 and PSYC\*3380 and that PSYC\*3320 is an (H) designated course.

Note: The regulations of the B.A. program govern the number of credits that 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 Advisory Note: Most graduate programs require the student to have at least a B+ average in order to be considered for admission. Students contemplating graduate work in Psychology are strongly advised to complete the major by completing 0.50 electives credits at the 3000 level or above and 0.50 elective credits at the 4000 level beyond PSYC\*4870 and PSYC\*4880 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\*3320
- 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 an Honours Thesis is normally taken as a Fall-Winter sequence worth the equivalent of 1.50 credits toward the 20.00 credits Honours B.A. degree requirements.

#### 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.

Note: Courses designated with (H) in Section XII--Course Descriptions are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

#### 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 - V	Vinter	

COOP*1100	[0.00]
PSYC*2010	[0.50]
0.50 Psychology	core***
1.50 electives*	

#### Summer Semester

Optional, however completion of semester 3 requirements NOW would allow for additional flexibility in the scheduling of future work terms (see also optional schedule below for students intending to apply for graduate programs).

Quantification in Psychology

Introduction to Co-operative Education

Statistical Principles in Psychological Research

#### Semester 3 - Fall

PSYC\*3320 [0.50] 1.50 Psychology core\*\*\* 0.50 electives\*

Winter Semester

COOP\*1000 [0.00] Semester 4 - Summer

1.00 Psychology core 1.50 electives\*\*\*\*

Fall Semester

COOP\*2000 [0.00]Semester 5 - Winter

PSYC\*2360 [0.50]PSYC\*3250 [0.50]

1.00 electives

#### Summer Semester

COOP\*3000 [0.00] PSYC\*4910 [0.50]

### 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

Co-op Work Term II

Co-op Work Term III

Co-op Work Term I

Introductory Research Methods

Psychological Measurement 0.50 Psychology credits at the 3000 or 4000 level\*\*

Co-operative Education Project I

#### 280

### 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 - W		
COOP*1100	[0.00]	Introduction to Co-operative Education
PSYC*2010	[0.50]	Quantification in Psychology
1.00 Psychology c 1.00 electives*	tore (other t	han PSYC*2310 or PSYC*2740)
Semester 3 - Su	mmer	
PSYC*2310	[0.50]	Introduction to Social Psychology
PSYC*2740	[0.50]	Personality
1.50 electives*	[]	
Semester 4 - Fa	ll	
PSYC*2360	[0.50]	Introductory Research Methods
PSYC*3320	[0.50]	Statistical Principles in Psychological Research
1.00 Psychology c	ore	
0.50 electives*		
Winter Semeste		
COOP*1000	[0.00]	Co-op Work Term I
Summer Semes	ster	
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 - Fa	11	
PSYC*3370	[0.50]	Experimental Design and Analysis
2.00 electives*		
Semester 6 - W	inter	
PSYC*3250	[0.50]	Psychological Measurement
PSYC*3380	[0.50]	Non-experimental Research Methods
1.50 electives*		
Summer Semes	ster	
Optional		
Fall Semester*	*	
COOP*3000	[0.00]	Co-op Work Term III
One of:		
PSYC*4910	[0.50]	Co-operative Education Project I
0.50 PSYC*		
0.50 electives Semester 7 - W	intor**	
		TT
PSYC*4870 2.00 electives*	[0.50]	Honours Thesis I
Semester 8 - Su	mmer	
PSYC*4880		Honours Thesis II
1.00 electives*	[1.00]	
	e elective ci	redits in semester 5, 6, 7, or 8 must be a 3000 leve

\*at least 1.00 of the elective credits in semester 5, 6, 7, or 8 must be a 3000 level or above Psychology elective (and include either PSYC\*4370 or PSYC\*4900). The total of electives should include the B.A. program distribution requirements and the completion of the total number of credits required at the 3000 level or above required by the B.A. degree.

\*\*the schedule for COOP\*3000 and semester 7 requirements can be exchanged

### Rural and Development Sociology (RDS)

Department of Sociology and Anthropology, College of Social and Applied Human Sciences

The program of Rural and Development Sociology focuses on the study of rural institutions and processes in industrialized societies with an emphasis on changes in rural communities, agriculture and natural resources, including historical and comparative analyses of the development of rural life. It provides students with major research and conceptual tools needed for the understanding of rural transformation, their interdependence with the natural environment and with urban society.

### Major (Honours Program)

A minimum of 8.00 credits in Sociology and Anthropology is required, including:

- a. ANTH\*1150, SOAN\*2111/2, SOAN\*2120, SOAN\*3070, SOAN\*3120, SOAN\*4500, SOC\*1100, SOC\*2080, (ANTH\*3690 or SOC\*3310), SOC\*3380, SOC\*4210
- b. 4 of SOAN\*4220, SOAN\*4240, SOC\*2010, SOC\*2280, SOC\*2390, SOC\*4880, SOC\*4890, SOC\*4900, SOC\*4910

c. at least 1.00 credits at the 4000 level

### Social Psychology (SPSY)

Department of Psychology, College of Social and Applied Human Sciences

Social Psychology focuses on the ways in which human experience is grounded in social interactions and social relationships. Although this Minor was designed for any student seeking to broaden their knowledge beyond their Major area of study, it may be of particular interest to students who are considering future careers in human service fields such as Social Work, Counselling, Criminology, and Occupational Therapy. The program may also be of special interest to students associated with the Collaborative Diploma Program in Public/Private Sector Administration.

### **Minor (Honours Program)**

(Honours Frogram)				
(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*3310	[0.50]	Applied Social Psychology		
2.50 credits in 5 H	Psychology C	ore Courses to include PSYC*2310, PSYC*2450		
0.50 credits in a F	sychology el	ectives (it is recommended that this elective be chosen		
from the list of seven restricted electives below)				
1.50 credits from	three of the f	ollowing seven courses:		
PSYC*3070	[0.50]	Psychology in Human Resource Management		
PSYC*3080	[0.50]	Organizational Psychology		
PSYC*3450	[0.50]	Social and Personality Development		
PSYC*3500	[0.50]	Social Interactions		
PSYC*3520	[0.50]	Political Psychology		
PSYC*3690	[0.50]	Community Mental Health		

PSYC\*4310 [0.50] Advanced Topics in Social Psychology

Note: Courses designated with (H) in Section XII--Course Descriptions are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

### 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 sociology 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:

	0	
FRHD*3060	[0.50]	Principles of Social Gerontology
ISS*2990	[0.50]	Introduction to Marx
PHIL*2180	[0.50]	Philosophy of Science

Courses will normally be offered in the semesters designated. For information on other semesters these courses will be offered and the semester those courses without designations will be offered, please check with the department. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work. Please note, a student is allowed a total of 1.00 credits only for reading courses. SOAN courses will be used towards the Sociology specializations.

### Area of Concentration (General Program)

A minimum of 5.00 credits in Sociology and Anthropology is required, including:

A minimum of 5.	00 creans	in sociology and Anunopology is requi
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 from the Department of Sociology and Anthropology, including at least 1.00 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 cr	edits from t	he Department of Sociology and Anthropology, including	
at least 1.50 at the	e 4000 level		
The following cou	urses may b	e 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 5.0	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 from the Department of Sociology and Anthropology, 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	
Spanish (SPAN)			

#### School of Languages and Literatures, College of Arts

The Spanish Studies program enables students to concentrate on the Spanish language and on Spanish and Latin American literature. Language courses provide study of the grammatical concepts required to establish and enrich reading, writing, oral and aural skills from basic through advanced levels of study. Through literature and film, students are introduced to a variety of cultural, historical, social, and political topics.

The usual first course in Spanish is SPAN\*1100. Students with 4U Spanish commonly take SPAN\*2000. They may be admitted into SPAN\*1110 only with the approval of the Instructor or the Faculty Advisor. Students with native or near native fluency normally begin language courses with SPAN\*2000. Such students should consult the Head of Spanish 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 Spanish 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 SPAN\*2010, SPAN\*2990 and SPAN\*2040 and SPAN\*3080. Credits successfully completed at the host university are applied towards University of Guelph degree requirements. Please see the International Study section of the undergraduate calendar and consult the Coordinator of Spanish for more information.

#### Area of Concentration (General Program)

A minimum of 5.00 credits in Spanish is required, including:

- a. 3.00 credits from SPAN\*1100, SPAN\*1110, SPAN\*2000, SPAN\*2010, SPAN\*3500, SPAN\*3530, SPAN\*4500, SPAN\*4520
- b SPAN\*2040 SPAN\*2990 SPAN\*3080
- c. 0.50 credits in literature

#### Major (Honours Program)

A minimum of 8.00 credits in Spanish is required, including:

a. SPAN\*2000, SPAN\*2010, SPAN\*2040, SPAN\*2990, SPAN\*3080, SPAN\*3500, SPAN\*3530, SPAN\*4500, SPAN\*4520

b. 3.50 credits in literature courses

Note: Students intending to proceed to graduate studies should take SPAN\*3170 and SPAN\*4170

#### Minor (Honours Program)

A minimum of 5.50 credits in Spanish is required, including:

a. 3.00 credits from SPAN\*1100, SPAN\*1110, SPAN\*2000, SPAN\*2010, SPAN\*3500, SPAN\*3530, SPAN\*4500, SPAN\*4520

b. SPAN\*2040, SPAN\*2990, SPAN\*3080

c. 1.00 credits in literature

Note: Students in the Spanish program may include one of the following courses for credit MATH\*1210 in their program:

ARTH*2050	[0.50]	Modern Latin American Art
ARTH*3050	[0.50]	Pre-Columbian Art
HIST*2110	[0.50]	The Atlantic World 1500-1850
HIST*2920	[0.50]	Republican Latin America
HIST*3150	[0.50]	History and Culture of Mexico
HIST*3420	[0.50]	Colonial Latin America
POLS*3080	[0.50]	Politics of Latin America
A my other subst	tution for a	aviered accurring can only be made with the approval of the

Any other substitution for required courses can only be made with the approval of the faculty advisor.

#### Statistics (STAT)

#### Department of Mathematics and Statistics, College of Physical and Engineering Science

The discipline of Statistics is essential in the social sciences, biological sciences, physical sciences, and health professions. The specialization in Statistics emphasizes applications of statistical theory and methods to other disciplines and is available in the B.A. Honours Program as a major or minor and as an area of concentration in the General Program.

Students are encouraged to combine the study of statistics with another field.

Statistical computing is a fundamental tool for the application of modern statistical methods. Students in these programs will develop skills in computer applications programming using such high-level languages as SAS and S-PLUS.

#### Area of Concentration (General Program)

A minimum of 5.00 credits in Statistics and Mathematics is required, including:

- a. no more than 1.00 credits from courses at the 1000 level
- b. 3.00 credits in statistics (STAT), 2.00 of which must be from courses at the 3000 level or above

#### **Recommended Courses**

MATH*1200	[0.50]	Calculus I
MATH*1210	[0.50]	Calculus II
MATH*2150	[0.50]	Applied Matrix Algebra
STAT*2040	[0.50]	Statistics I
STAT*2050	[0.50]	Statistics II
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications

#### **Honours Programs**

CIS\*1500

1.50 electives

[0.50]

[0.50]

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 follo	ows:	
CIS*1500	[0.50]	Introduction to Programming
MATH*1200	[0.50]	Calculus I
MATH*1210	[0.50]	Calculus II
5.00 credits in Stat	istics and M	fathematics as follows:
MATH*2130	[0.50]	Numerical Methods
MATH*2200	[0.50]	Advanced Calculus I
STAT*2040	[0.50]	Statistics I
STAT*2050	[0.50]	Statistics II
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3210	[0.50]	Experimental Design
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications
One of:		
MATH*2150	[0.50]	Applied Matrix Algebra
MATH*2160	[0.50]	Linear Algebra I
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 Mat	hematics or	Statistics at the 2000-level or above.
Recommended Sc	hedule of <b>S</b>	Studies for Major (Honours Program)
Semester 1		
MATH*1200	[0.50]	Calculus I
2.00 electives*		
Semester 2		

Introduction to Programming

Calculus II

#### X. Degree Programs, Bachelor of Arts (B.A.)

### Semester 3

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Semester 5			
MATH*2200 STAT*2040	[0.50]	Advanced Calculus I	
	[0.50]	Statistics I	
One of: MATH*2150	[0.50]	Applied Matrix Algebra	
MATH*2160 1.00 electives**	[0.50]	Linear Algebra I	
Semester 4			
MATH*2130	[0.50]	Numerical Methods	
STAT*2050	[0.50]	Statistics II	
1.50 electives**			
Semester 5			
STAT*3100	[0.50]	Introductory Mathematical Statistics I	
STAT*3240	[0.50]	Applied Regression Analysis	
STAT*3320	[0.50]	Sampling Theory with Applications	
1.00 electives**			
Semester 6			
STAT*3110	[0.50]	Introductory Mathematical Statistics II	
STAT*3210	[0.50]	Experimental Design	
1.50 electives**			
Semester 7			
2.50 electives**			
Semester 8			
2.50 electives**			
* See "Semester O	ne Require	ments" for Bachelor of Arts programs.	
**Electives must satisfy the following requirements:			
1. Electives must include at least 2.50 credits in Statistics at the 3000 or 4			
1 12.2 1 /	2 50 11		

- 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:

		1 0	
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			

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 for a more balanced study in the two disciplines. Both programs, however, require work in both Studio Art and 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

The students who elect to take a substantial number of credits in either Art History or Studio Art with the objective of graduate work are advised to obtain counselling from faculty regarding their choices. However, in general, 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. A Studio career to the graduate level will normally require some education in all the traditional and contemporary media as well as an awareness of art theory.

#### **Core Requirements**

ARTH*1220	[0.50]	The Visual Arts Today
ARTH*1520	[0.50]	Art Historical Studies II
SART*1050	[0.50]	Integrated 2-D Media
SART*1060	[0.50]	Media Convergence

### **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:
  - i. 0.50 credits in Western Art and Cross-Cultural Perspectives: (ARTH\*2150, ARTH\*2280, ARTH\*2290, ARTH\*2540, ARTH\*2550, ARTH\*2580, ARTH\*2600, ARTH\*2950, ARTH\*3150).
  - ii. 0.50 credits in Art History from 3000-level thematic courses: (ARTH\*3100, ARTH\*3200, ARTH\*3320, ARTH\*3330, ARTH\*3340, ARTH\*3520)
  - iii. 0.50 credits in Visual Arts of the Americas: (ARTH\*2050, ARTH\*2060, ARTH\*2070, ARTH\*2490, ARTH\*3010, ARTH\*3050, ARTH\*3060).
  - iv. 0.50 credits in Art Theory, Critical Methodology and Museology (ARTH\*2120, ARTH\*2480, ARTH\*3210, ARTH\*3220, ARTH\*3780).
- 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:

- b. 0.50 credits in Studio Art or Art History at the 4000 level
- c. 1.50 additional credits in Art History, including:
  - i. 0.50 credits in Western Art and Cross-Cultural Perspectives: (ARTH\*2150, ARTH\*2280, ARTH\*2290, ARTH\*2540, ARTH\*2550, ARTH\*2580, ARTH\*2600, ARTH\*2950, ARTH\*3150).
  - ii. 0.50 credits in Art History from 3000-level thematic courses: (ARTH\*3100, ARTH\*3200, ARTH\*3320, ARTH\*3330, ARTH\*3340, ARTH\*3520).
  - iii. 0.50 credits in Visual Arts of the Americas: (ARTH\*2050, ARTH\*2060, ARTH\*2070, ARTH\*2490, ARTH\*3010, ARTH\*3050, ARTH\*3060).
- d. 2.00 additional credits in Studio Art, including 0.50 credits from List A and 0.50 from List B

## List A

Notes:

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*4100	[0.50]	Drawing IV
SART*4200	[0.50]	Painting III
SART*4210	[0.50]	Painting IV
SART*4230	[0.50]	Special Topics in Painting
SART*4410	[0.50]	Experimental Printmaking
SART*4450	[0.50]	Advanced Printmaking
SART*4700	[0.50]	Photography III
SART*4710	[0.50]	Photography IV
SART*4830	[0.50]	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*4310	[0.50]	Sculpture IV
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*4820	[0.50]	Extended Practices IV
SART*4870	[0.50]	Special Topics in Sculpture
NT. 4		

1. Students in the Art History Major or Minor cannot count more than 11.00 credits in Art History or 11.00 credits in Studio Arts towards their honours degree.

a, the Studio Art core

- 2. Details of advanced standing for transfer students from the Ontario College of Art and Design (OCAD) can be found in the section on Admission Information.
- 3. 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.
- 4. 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.
- 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:

 A maximum of 2.00 credits in Directed Readings or Special Studies Courses (THST\*3410, THST\*3420, THST\*3600, DRMA\*3610) is allowed in the honours program major. A maximum of 1.00 credits in such courses is allowed in honours program minor or the general program area of concentration. Students will normally be permitted to take only 0.50 credits in Directed Readings or Special Studies courses per semester.

Certain approved Dramatic Literature courses from the English Program within the School of English and Theatre Studies or other departments may be counted towards a degree in Theatre Studies. A list of approved courses may be obtained from the School of English and Theatre Studies' website: http://www.arts.uoguelph.ca/sets/.

- 2. In connection with THST\*1040 and some seminar 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.
- In any given semester, a student may not enroll in more than ONE production-related course at a time. These are THST\*2230, THST\*3110, THST\*3120, THST\*3220, THST\*3230, THST\*3410, THST\*3420, THST\*4090, THST\*4250, THST\*4280.

#### Area of Concentration (General Program)

A minimum of 5.00 credits in Theatre Studies is required, including:

- a. THST\*1040, THST\*2010, THST\*2080, THST\*2120, THST\*2230, THST\*2240, THST\*3550, THST\*3850
- b. at least one of THST\*3650, THST\*3660
- c. 0.50 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\*2080, THST\*2120, THST\*2230, THST\*2240, THST\*3550, THST\*3850, THST\*4280

b. one of THST\*3650 or THST\*3660

c. at least one of THST\*4320 or THST\*4330

### d. 2.00 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\*2080, THST\*2120, THST\*2230, THST\*2240, THST\*3550, THST\*3850
- b. one of THST\*3650 or THST\*3660

c. 0.50 other credits in Theatre Studies

#### Visual Arts of the Americas (VAA) (Minor)

#### 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 cr	edits is requ	ired, 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 cre	edits in Art I	History as follows:		
ARTH*2480	[0.50]	Introduction to Art Theory and Criticism		
ARTH*3220	[0.50]	Nationalism and Identity in Art		
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*4050	[0.50]	Seminar in the Americas I		
ARTH*4060	[0.50]	Seminar in the Americas II		
Women's Studies (WMST)				

#### Interdisciplinary Program

#### Women's Studies Office, College of Arts, Ext. 54344.

The Women's Studies program offers an interdisciplinary program that uses gender as its focus of analysis.

#### Area of Concentration (General Program)

A minimum of 5.00 credits is required, including:

- a. 4.50 credits from List A
- b. 0.50 additional credits from Lists A or B

#### Major (Honours Program)

A minimum of 8.00 credits is required, including:

- a. 4.50 credits from List A
- b. 3.50 additional credits from Lists A or B
- At least 4.00 of these credits must be at the 3000 level or above.

#### Minor (Honours Program)

A minimum of 5.00 credits is required, including:

a. 4.50 credits from List A

b. 0.50 additional credits from Lists A or B

#### List A

SOAN\*4220

[0.50]

WMST*1000	[0.50]	Introduction to Women's Studies
WMST*2000	[0.50]	Women and Representation
WMST*3000	[0.50]	Feminist Theory and Methods
WMST*3010	[0.50]	Gender and Diversity
WMST*4010	[0.50]	Seminar in Women's Studies
Two of:		
ARTH*3780	[0.50]	Gender and Art
ENGL*2880	[0.50]	Women in Literature
HIST*2930	[0.50]	Women and Cultural Change
PHIL*2060	[0.50]	Philosophy of Feminism I
PHIL*3210	[0.50]	Women in the History of Philosophy
Two of:		
ANTH*3400	[0.50]	The Anthropology of Gender
GEOG*3090	[0.50]	Gender and Environment
ISS*3420	[0.50]	Women Social and Political Theorists
POLS*2150	[0.50]	Gender and Politics
POLS*3710	[0.50]	Politics and Sexuality
PSYC*3300	[0.50]	The Psychology of Gender
SOAN*2400	[0.50]	Introduction to Gender Systems
List B		
ENGL*2190	[0.50]	Representation and Sexuality
ENGL*4220	[0.50]	Special Topics in Women's Writings
FREN*3560	[0.50]	Contemporary French Women's Writings
GERM*3460	[0.50]	Women in 18th & 19th Century German Lit.
HIST*2800	[0.50]	The History of the Modern Family
HIST*3020	[0.50]	Sexuality and Gender in History
HIST*3570	[0.50]	Women in Modern Europe
HUMN*3170	[0.50]	Women, Virtue and Honour in Spanish Drama
PHIL*4060	[0.50]	Philosophy of Feminism II
SOAN*3100	[0.50]	Gender Perspectives on Families and Households

Gender and Change in Rural Canada

SOAN*4240	[0.50]	Women and the Development Process
THST*3300	[0.50]	Sexuality and The Stage
WMST*3510	[0.50]	Directed Readings in Women's Studies
WMST*3520	[0.50]	Independent Workplace Learning in Women's Studies
WMST*4510	[0.50]	Advanced Topics in Women's Studies
WMST*4520	[0.50]	Advanced Topics in Women's Studies
		1 · · · · · · · · · · · · · · · · · · ·

An independent study or reading course on an appropriate topic from any subject area of the College of Arts or the College of Social and Applied Human Science may also be included in the program.

## **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.

#### **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 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. First Year Core 4.00 credits (2.00 Science and 2.00 Arts/Social Sciences).
- 2. Subject Area Core (ASCI) 3.00 credits.
- 3. Arts/Social Science Minor 5.00 credits.
- 4. Science Minor 5.00 credits
- 5. Free Electives 3.00 credits.

#### 1. First-year Core - 4.00 credits

Science Core - 2.00 credits including:

BIOL*1030 CHEM*1040	[0.50] [0.50]	Biology I General Chemistry I		
One of:				
MATH*1080	[0.50]	Elements of Calculus I		
MATH*1200	[0.50]	Calculus I		
One of:				
PHYS*1000	[0.50]	An Introduction to Mechanics		
PHYS*1070	[0.50]	Introductory Physics for Life Sciences		
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; CLAS - Classical Studies; DRMA - Drama; ENGL - English; EURO -European Studies; FREN - French Studies; GERM - German Studies; GREK - Greek; HIST - History; HUMN - Humanities; ITAL - Italian Studies; LAT - Latin Studies; LING - Linguistics; MUSC - Music; PHIL - Philosophy; SART - Studio Art; SPAN - Spanish Studies; WMST - Women's Studies
- b. 1.00 credits over at least 2 different subject areas in the College of Social and Applied Human Sciences: ANTH - Anthropology; ECON - Economics; GEOG - Geography; IDEV - International Development Studies; ISS - Interdisciplinary Social Science;

#### 2. Subject Area Core - 3.00 credits

<ul> <li>1.50 credits from:</li> </ul>		
ASCI*1000	[0.50]	Society and Science I: Historical Perspectives
ASCI*1010	[0.50]	Society and Science II: Current Issues
ASCI*2000	[0.50]	Modes of Inquiry and Communication Across
		Disciplines
<ul> <li>0.50 credits from:</li> </ul>		
ASCI*3000	[0.50]	Arts and Sciences Community Project
ASCI*3100	[0.50]	Case Studies in Arts and Sciences Research
ASCI*3700	[0.50]	Independent Studies in Arts/Sciences
<ul> <li>1.00 credits from:</li> </ul>		
ASCI*4000	[0.50]	Arts and Sciences Honours Seminar
ASCI*4010	[0.50]	Arts and Sciences Honours Research Seminar
ASCI*4020	[0.50]	Topics in Arts and Sciences Research
ASCI*4030	[0.50]	Topics in Arts and Sciences Research
ASCI*4700	[0.50]	Independent Studies in Arts/Sciences
ASCI*4710	[0.50]	Independent Studies in Arts/Sciences

Note: Of the 20.00 credits required for this program, 3.00 credits must be completed at the 3000 or 4000 level, and 2.00 credits at the 4000 level. This requirement is partially fulfilled by senior level courses in the Subject Core (ASCI) requirements.

#### 3. Arts/Social Sciences Minors - 5.00 credits

Minors available in the Arts/ Social Sciences core (see B.A. program descriptions):

Anthropology Art History Art Theory and Criticism **Business Administration** Classical Languages **Classical Studies** Cognitive Neuropsychology Criminal Justice & Public Policy Developmental Psychology Economics Educational Psychology English Environmental Studies European Culture and Civilization Family & Child Studies French Studies Geography German History International Development Italian Marketing Management Museum Studies Music Organizational Behaviour Philosophy Political Science Rural Extension Studies Social Psychology Sociology Spanish Studio Art Theater Studies Visual Art of the Americas Women's Studies 4. Science Minor - 5.00 credits

Computing & Information Science

Minors available in the Science core (see B.Sc. program descriptions): Agriculture Biochemistry Biology Biotechnology Chemistry

Ecology Food Science Forest Science Functional Foods & Nutraceuticals Geology GIS\* & Environmental Analysis Mathematics Microbiology Molecular Biology and Genetics Neuroscience Nutritional Sciences Plant Biology Physics Psychology Statistics Zoology \* Geographic Information Systems

#### 5. Free Electives - 3.00 credits (maximum)

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 for both their B.Sc. and B.A. minors.

#### **Double Counting Rule**

A maximum of 2.00 credits may be double-counted. 1.00 credits may be double-counted between the core and one minor. 1.00 credits may be double-counted between the two minors. If a course is double-counted towards both the core and one minor, it cannot be counted towards the second minor.

### **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 was designed for students who do not intend to pursue post-graduate studies and are strongly focused on securing employment that makes use of the knowledge acquired in their bachelor's degree.

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. Students must successfully complete a minimum of 4.00 university credits and/or course equivalents at the 3000 level or higher, of which at least 2.00 credits must be at the 4000 level.

#### Special Expenses

Expenses for field trips and labs can range from \$20 to \$100 per semester. In certain courses modest expenses will be incurred for supplies. Equine Management students are welcome to board horses at local facilities. Please contact the Kemptville Registrar, Heather Buck at Heather Buck <hbuck@kemptvillec.uoguelph.ca> for a listing of boarding facilities.

### **B.B.R.M. Program Regulations**

### **Entry Credits**

OSS Curriculum: Grade 4U English; Grade 4U Biology; 4 additional 4U or 4U/C credits. **Recommendations and Notes:** 

It is recommended that applicants include 4U level science or math in their course of study. Students entering the degree program who are deficient in U level Mathematics or Chemistry should consult with the program counsellor. Summer semester courses will be available through a Ridgetown campus Summer Institute, Distance Education or other means. It is recommended that prior to enrolment in the degree program, students lacking Grade 12U Advanced Functions and Introductory Calculus enrol in the non-credit course "Getting Ready for Calculus" offered through the Office of Open Learning.

#### **Environmental Management Major (EM)**

Department of Food, Agricultural and Resource Economics

This major will require the completion of 20.00 credits.

Semesters 1 to 4 offered at the Ridgetown campus

Semester 1 - H	all	
CIS*1000	[0.50]	Introduction to Computer Applications
ENVM*1000	[0.50]	Introductory Environmental Science
ENVM*1050	[0.50]	Surveying and GIS
ENVM*2020	[0.50]	Environmental Law
SOIL*2010	[0.50]	Soil Science
Semester 2 - V	Vinter	
AGEC*1100	[0.50]	Introduction to Business
AGR*1050	[0.50]	Communication Skills
ECON*1050	[0.50]	Introductory Microeconomics
ENVM*1020	[0.50]	Introduction to Environmental Microbiology
0.50 restricted elec		
Semester 3 - H	fall	
BIOL*1030	[0.50]	Biology I
CHEM*1040	[0.50]	General Chemistry I
ENVM*1090	[0.50]	Occupational Health and Safety
ENVM*1100	[0.50]	Ecology
0.50 restricted elec		
Semester 4 - V	Ninter	
AGR*2100	[0.50]	Human Resource Management
BIOL*1040	[0.50]	Biology II
ENVM*1150	[0.50]	Water Resource Management
ENVM*2500	[0.50]	Integrated Project (Environmental)
0.50 restricted elec		usilable at Didgatarum.
		vailable at Ridgetown:
ENVM*1070	[0.50]	Nutrient Management
ENVM*1120	[0.50]	Environmental Monitoring
ENVM*2050	[0.50]	Agriculture and Environmental Stewardship
ENVM*2060 ENVM*2070	[0.50] [0.50]	Sewage and Wastewater Treatment Water Treatment
ENVM*2080	[0.50]	Industrial Waste Management
ENVM*2090	[0.50]	Spills Response Planning
Semesters 5 to 8		
Semester 5 - H		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
AGR*3500	[0.50]	Experiential Education
SOIL*3080	[0.50]	Soil and Water Conservation
1.00 electives or r		
Semester 6 - V		
GEOL*3130	[0.50]	Agrogeology
MET*2020	[0.50]	Agrometeorology
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape
	[]	Management
STAT*2060	[0.50]	Statistics for Business Decisions
0.50 electives or re		
Semester 7 - I	all	
AGEC*4290	[0.50]	Land Economics
One of:		
ENVB*4420	[0.50]	Problems in Environmental Biology
SOIL*4110	[0.50]	Natural Resources Management Field Camp *
SOIL*4250	[0.50]	Soils in the Landscape
1.50 electives or re * Students choosin		ectives 10 must choose electives in 3rd year to obtain the real

\* Students choosing SOIL\*4110 must choose electives in 3rd year to obtain the required prerequisites.

#### Semester 8 - Winter

AGR*4050	[0.50]	Professionalism and Agrology	
AGEC*4310	[0.50]	Resource Economics	
GEOL*3060	[0.50]	Groundwater	
SOIL*3600 [0.50] Remote Sensing 0.50 electives or restricted electives			

Principles of Animal Care and Welfare

Agrifood Industry Problem-Solving

Equine Industry Trends and Issues II

### **Restricted Electives**

Students would be required to take a minimum of 2.00 credits from one 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.

## NT-- 4--- ---- 4 N.T.

Nutrient Management					
ENVB*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*3200	[0.50]	Environmental Soil Biology			
SOIL*4090	[0.50]	Soil Management			
Natural Resou	urce Mana	ngement			
ENVB*2030	[0.50]	Current Issues in Forest Science			
ENVB*3300	[0.50]	Applied Ecology and Environment			
ENVB*4020	[0.50]	Water Quality and Environmental Management			
ENVB*4780	[0.50]	Forest Ecology			
GEOG*3610	[0.50]	Environmental Hydrology			
SOIL*2120	[0.50]	Introduction to Environmental Stewardship			
SOIL*3050	[0.50]	Land Utilization			
SOIL*3100	[0.50]	Resource Planning Techniques			
Environmenta	Environmental Protection				
BIOC*2580	[0.50]	Introductory Biochemistry			
ENVB*2010	[0.50]	Food Production and the Environment			
ENVB*2040	[0.50]	Plant Health and the Environment			
ENVB*3030	[0.50]	Pesticides and the Environment			
ENVB*3300	[0.50]	Applied Ecology and Environment			
ENVB*4240	[0.50]	Biological Activity of Pesticides			
MICR*4140	[0.50]	Soil Microbiology and Biotechnology			
MICD*/190	[0 50]	Migrobial Processes in Environmental Management			

MICR\*4180 [0.50] Microbial Processes in Environmental Management PBIO\*4530 [0.50] Environmental Pollution Stresses on Plants

#### Equine Management Major (EQM)

This major will require the completion of 20.00 credits.

Entering first year students are expected to have U-level English and Biology. 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

Semester 1 - I	d'all		
BIOL*1030	[0.50]	Biology I	
CIS*1000	[0.50]	Introduction to Computer Applications	
ENVM*1090	[0.50]	Occupational Health and Safety	
EQN*1020	[0.00]	Horse Care Practicum I	
EQN*1060	[0.50]	Equine Event Management I	
EQN*1100	[0.50]	Introduction to Equine Industry	
Semester 2 - V	Winter		
AGR*2100	[0.50]	Human Resource Management	
BIOL*1040	[0.50]	Biology II	
EQN*1030	[0.00]	Horse Care Practicum II	
EQN*1040	[0.50]	Equine Facility Management and Design	
EQN*1070	[0.50]	Equine Event Management II	
SOIL*2010	[0.50]	Soil Science	
Semester 3 - Fall			
AGR*2030	[0.50]	Pasture Management	
CHEM*1040	[0.50]	General Chemistry I	
ECON*1050	[0.50]	Introductory Microeconomics	
EQN*2020	[0.50]	Equine Management	
EQN*2040	[0.50]	Equine Anatomy and Physiology	
Semester 4 - V	Winter		
AGEC*1100	[0.50]	Introduction to Business	
AGR*1050	[0.50]	Communication Skills	
BUS*2220	[0.50]	Financial Accounting	
EQN*2050	[0.50]	Introduction to Equine Nutrition	
EQN*2200	[0.50]	Equine Industry Trends and Issues I	
Semesters 5 to 8 offered at the Guelph campus			
Semester 5 - Fall			
AGR*2350	[0.50]	Animal Production Systems and Industry	
AGR*3500	[0.50]	Experiential Education	
MCS*1000	[0.50]	Introductory Marketing	
One of:			
SOIL*3080	[0.50]	Soil and Water Conservation	
SOIL*4090	[0.50]	Soil Management	

EQN*3050	[0.50]	Equine Exercise Physiology
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape
		Management
STAT*2060	[0.50]	Statistics for Business Decisions
0.50 electives		
Semester 7 -	Fall	
AGEC*3310	[0.50]	Operations Management
EQN*4020	[0.50]	Feeding the Performance Horse
1.50 electives		-
Semester 8 -	Winter	
AGR*4050	[0.50]	Professionalism and Agrology

Semester 6 - Winter

[0.50]

[0.50]

[0.50]

ANSC\*3210

AGR\*4500

EQN\*4400

1.00 electives

0.50 electives

### Bachelor of Commerce (B.Comm.)

The University of Guelph offers an eight semester (20.00 credits) honours program leading to a Bachelor of Commerce degree (B.Comm.). The normal course load is 2.50 credits per semester for a full-time student. The program is of an interdisciplinary nature and designed to give students a sound professional management education with a focus on specific industry sectors or management functions which prepare the graduates for positions of responsibility in particular areas of management and business.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study.

Students begin studying in one of the following eight specialized management majors during the first semester:

Agricultural Business\*

Hotel and Food Administration\*

Human Resources Management

Management Economics in Industry 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, a B.Comm. core ensures that each major also provides a comprehensive commerce education to all students in the program. Common core elements spanning each of the majors includes:

Accounting (1.00 credits) Economics (1.00 credits) Finance (1.00 credits) Information Management (0.50 credits) Marketing (0.50 credits) Statistics (0.50 credits) Operations Management (0.50 credits) Strategy/Business Policy (0.50 credits) Organizational Behaviour (0.50 credits) Law (0.50 credits) Liberal Education Requirement (1.50 credits)\* \* (see advisory note)

#### **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/uaic/students\_advisors.shtml or contact the B.Comm. Counselling Office for further information.

#### Special Expenses

Expenses may include cost of field trips and supplies and, for some majors, laboratory coats and other protective clothing.

#### **Study at Other Universities**

Students contemplating study at another university for credit towards a Bachelor of Commerce degree at the University of Guelph should refer to the general regulations governing Letters of Permission in Section VIII - Degree Regulations and Procedures in this calendar.

Students must obtain approval for the Letter of Permission prior to undertaking studies at another institution. Approval of the request depends on good standing in the program with a minimum cumulative average of 60%.

The total limit of credits taken on a Letter of Permission is 2.50 based on the University of Guelph's credit system.

#### **Study Abroad**

Global understanding and perspectives are regarded as being of central importance among the university's learning objectives, as they are, also, in understanding the international business environment. On both of these accounts, students enrolled in the B.Comm. program are urged to participate in one of the several exchange and study abroad programs specifically designed for the Commerce program. Planning for such participation is best undertaken quite early in the course of studies. For more specific information on possible opportunities refer to Section V--International Study of the calendar or contact the B.Comm. program counsellor.

#### **Continuation of Studies**

Students are advised to consult the regulations for Continuation of Study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations and Procedures

#### **Conditions of Graduation**

To qualify for a Bachelor of Commerce degree, the student must satisfy the following conditions:

- The student must successfully complete 1.50 credits from the Liberal Education Requirement list.
- The student must successfully complete a minimum of 20.00 approved credits, in accordance with the Schedule of Studies for the specified major, including the Liberal Education Requirement.
- Students will not be eligible to graduate while on probationary or required-to-withdraw status.

#### **Liberal Education Requirement**

ANSC Animal Science

ANTH Anthropology

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:

ARTH Art History **BIOL Biology BIOM Biomedical Sciences** BOT Botany CHEM Chemistry 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 GEOG Geography GEOL Geology **GERM** German Studies GREK Greek HIST History HUMN Humanities IDEV International Development ISS Interdisciplinary Social Science **ITAL Italian Studies** LAT Latin LING Linguistics MATH Mathematics MBG Molecular Biology and Genetics MUSC Music NUTR Nutrition PHIL Philosophy PHYS Physics POLS Political Science PSYC Psychology SART Studio Art SOAN Sociology and Anthropology SOIL Soil Science SOC Sociology SPAN Spanish Studies THST Theatre Studies

#### **Double Counting of Courses**

Double counting is not permitted within the B.Comm. Program. For example, students can not 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.

#### Agricultural Business (AGBU)

#### Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

The Agricultural Business major is concerned with the management problems of business firms and prepares students for a range of management careers in agribusiness.

Graduates of the Agricultural Business program meet the educational requirements for membership in the Ontario Institute of Agrologists. The Ontario Institute of Agrologists is the professional organization in agriculture in the Province of Ontario. Professional institutes in the various provinces in Canada and the scientific societies in agriculture collectively comprise the Agricultural Institute of Canada. The program has been fully accredited by the Agricultural Institute of Canada.

Included in the core requirements, the Agricultural Business program provides students with the option of selecting from the Restricted Electives list courses that will compliment their studies. The first option (List A) is designed for students more interested in the business relationships of farming and involves marketing and advanced farm management. The second option (List B) emphasizes the production aspects of farming and involves biology and either animal or plant systems.

The major is administered by the Department of Food, Agricultural and Resource Economics in the Ontario Agricultural College and students are urged to consult the departmental advisor. For this major, 15.00 of the 20.00 credits (including 1.50 credits from List A or List B ) are specified as core requirements and the remaining 5.00 credits are specified as 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 I		
AGR*1100	[0.50]	1

AGR*1100	[0.50]	Introduction to the Agrifood Systems
ECON*1050	[0.50]	Introductory Microeconomics
MATH*1000	[0.50]	Introductory Calculus
1.00 electives		

Note: Students who are exceptionally strong in mathematics may substitute either MATH\*1080 or MATH\*1200 for MATH\*1000.

### Semester 2

AGR*1250	[0.50]	Agrifood System Trends & Issues
CIS*1200	[0.50]	Introduction to Computing
ECON*1100	[0.50]	Introductory Macroeconomics
PSYC*1200	[0.50]	Dynamics of Behaviour
0.50 electives		
Semester 3		
AGR*2400	[0.50]	Economics of the Canadian Food System
BUS*2220	[0.50]	Financial Accounting
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2740	[0.50]	Economic Statistics
0.50 from List A	or List B	
Semester 4		
AGEC*2410	[0.50]	Agrifood Markets and Policy
BUS*2230	[0.50]	Management Accounting
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2770	[0.50]	Introductory Mathematical Economics
One of:		
Students choo	sing List A	take 0.50 electives from List A
Students choo	sing List B	take 0.50 electives
Semester 5		
AGEC*3400	[0.50]	Agribusiness Financial Management
ECON*2740	[0 50]	Introduction to Econometrics

ECON\*3740 [0.50] Introduction to Econometrics MCS\*3040 [0.50] Business and Consumer Law One of:

Students choosing List A take 0.50 electives Students choosing List B take 0.50 electives from List B 0.50 electives

#### Semester 6

Semester 0		
AGEC*3310	[0.50]	Operations Management
ECON*3560	[0.50]	Theory of Finance
HTM*4390	[0.50]	Individuals and Groups in Organizations
One of:		
Students choo	osing List A	take 1.00 electives
Students choo	osing List B	take 0.50 electives from List B and 0.50 electives
Semester 7		
AGEC*3030	[0.50]	The Firm and Markets
AGEC*4370	[0.50]	Food & Agri Marketing Management
BUS*4250	[0.50]	Business Policy
1.00 electives		

#### Semester 8

AGEC*4000	[0.50]	Agricultural and Food Policy
AGEC*4240	[0.50]	Futures and Options Markets
AGR*4500	[0.50]	Agrifood Industry Problem-Solving
One of:		

Students choosing List A take 0.50 electives from List A and 0.50 electives Students choosing List B take 1.00 electives

#### **Restricted Electives**

After completion of the first year of the Agricultural Business program, students have the option of selecting three courses from List A or three courses from List B. In order to satisfy the core requirements, students must complete three courses from one of the lists. Students are encouraged to take these courses in the semester indicated in the schedule of studies.

#### List A

Semester 3 MCS*1000	[0.50]	Introductory Marketing
Semester 4	[0.00]	
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
Semester 8		
AGEC*4220	[0.50]	Advanced Farm Management
List B*		

BIOL\*1020 in Semester 3

(2 of ANSC\*2340, ANSC\*2350, ANSC\*2360, ANSC\*3210, AGR\*2470, and CROP\*2110)

\* students with OAC Biology may elect to take BIOL\*1030 in Semester 3 Agricultural Business (Co-op) (AGBU:C)

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

#### **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 r 1 Fall Se

ECON\*2310

ECON\*2740

BUS\*2230

ECON\*2410

Semester I - I	all	
AGR*1100	[0.50]	Introduction to the Agrifood Systems
ECON*1050	[0.50]	Introductory Microeconomics
MATH*1000	[0.50]	Introductory Calculus
1.00 electives		
Note: Students v	who are exce	eptionally strong in mathematics may substitute either
MATH*1080 or	MATH*12	00 for MATH*1000.
Semester 2 - V	Winter	
AGR*1250	[0.50]	Agrifood System Trends & Issues
CIS*1200	[0.50]	Introduction to Computing
ECON*1100	[0.50]	Introductory Macroeconomics
PSYC*1200	[0.50]	Dynamics of Behaviour
0.50 electives		
Semester 3 - I	Fall	
AGR*2400	[0.50]	Economics of the Canadian Food System
BUS*2220	[0.50]	Financial Accounting
COOP*1100	[0.00]	Introduction to Co-operative Education

0.501	Intermediate Microeconomics

[0.00]	interinediate inneroecom
[0.50]	Economic Statistics

0.50 electives from List A or List B			
Semester 4 - Winter			
AGEC*2410	[0.50]	Agrifood	

٢C

[0.50]	Agrifood Markets and Policy
[0.50]	Management Accounting
[0.50]	Intermediate Macroeconomics

2007-2008 University of Guelph Undergraduate Calendar

ECON*2770		Introductory Mathematical Economics
0.50 electives fr		r List B
Summer Sem	ester	
COOP*1000	[0.00]	Co-op Work Term I
Fall Semester	•	
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 - V	Winter	
AGEC*3310	[0.50]	Operations Management
ECON*3740	[0.50]	Introduction to Econometrics
MCS*3040	[0.50]	Business and Consumer Law
1.00 electives		
Summer Sem	ester	
Optional acaden	nic term.	
Semester 6 - 1	Fall	
AGEC*3400	[0.50]	Agribusiness Financial Management
ECON*3560	[0.50]	Theory of Finance
HTM*4390	[0.50]	Individuals and Groups in Organizations
1.00 electives		
Winter Seme	ster	
COOP*3000	[0.00]	Co-op Work Term III
Summer Sem		I I I I I I I I I I I I I I I I I I I
COOP*4000	[0.00]	Co-op Work Term IV
Semester 7 - 1		
AGEC*3030		The Firm and Markets
AGEC*3030 AGEC*4370	[0.50] [0.50]	
BUS*4250	[0.50]	Business Policy
One of:	[0.50]	Business Foney
	osing List A	take 1.00 electives
	0	take 0.50 electives from List B and 0.50 electives
Semester 8 - V		
AGEC*4000	[0.50]	Agricultural and Food Policy
AGEC*4240	[0.50]	Futures and Options Markets
	L	L L L L L L L L L L L L L L L L L L L

AGEC*4000	[0.50]	Agricultural and Food Policy
AGEC*4240	[0.50]	Futures and Options Markets
AGR*4500	[0.50]	Agrifood Industry Problem-Solving
One of:		

Students choosing List A take 0.50 electives from List A and 0.50 electives Students choosing List B take 1.00 electives

#### **Restricted Electives**

After completion of the first year of the Agricultural Business program, students have the option of selecting three courses from List A or three courses from List B. In order to satisfy the core requirements, students must complete three courses from one of the lists. Students are encouraged to take these courses in the semester indicated in the schedule of studies.

#### List A

Semester 3		
MCS*1000	[0.50]	Introductory Marketing
Semester 4		
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
Semester 8		
AGEC*4220	[0.50]	Advanced Farm Management
List B*		
BIOL*1020 in S	emester 3	
(2 of ANSC*234	40, ANSC*2	2350, ANSC*2360, ANSC*3210, AGR*247

(2 of ANSC\*2340, ANSC\*2350, ANSC\*2360, ANSC\*3210, AGR\*2470, and CROP\*2110)

\* students with OAC Biology may elect to take BIOL\*1030 in Semester 3

#### 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. The major is administered by the School of Hospitality and Tourism Management. Students may consult the Faculty Advisor or the B.Comm. Program Counsellor for additional information.

For this major, 15.00 of the 20.00 credits are specified as core requirements, 2.50 as restricted electives, and 2.50 electives (including the Liberal Education Requirements of 1.50 credits.) 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

[0.50]

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.

Introductory Microeconomics

#### Major Semester 1

ECON\*1050

HTM*1000	[0.50]	Introduction to Hospitality and Tourism Management	
POLS*1400	[0.50]	Issues in Canadian Politics	
PSYC*1200	[0.50]	Dynamics of Behaviour	
One of:*			
CHEM*1100	[0.50]	Chemistry Today	
HTM*2700	[0.50]	Introductory Foods	
		by students without Grade 12U or OAC Chemistry. If	
	t required, 1	then a total of 3.00 restricted electives are required.	
Semester 2			
ECON*1100	[0.50]	Introductory Macroeconomics	
HTM*2000	[0.50]	Hospitality Purchasing Management	
HTM*2100	[0.50]	Lodging Operations	
HTM*2120	[0.50]	Hospitality and Tourism Marketing I	
0.50 from List A o	r List B or e	electives	
Semester 3			
2.50 from List A o	r List B or e	electives	
Semester 4			
STAT*2060	[0.50]	Statistics for Business Decisions	
2.00 from List A o			
Semester 5			
ECON*3460	[0 50]	Introduction to Finance	
HTM*3030	[0.50] [0.50]	Beverage Management	
1.50 from List A o			
Semester 6		licenves	
HTM*3120	[0.50]	Operations Analysis in the Hospitality and Tourism	
2 00 from Lint A		Industry	
2.00 from List A o	r List B or e	electives	
Semester 7			
2.50 from List A o	r List B or e	electives	
Semester 8			
2.50 from List A o	r List B or e	electives	
2.50 from List A of List A - Further			
List A - Further	Require	d Courses	
List A - Further The following 8.50	• Required		
List A - Further The following 8.50	• Required	<b>d Courses</b> also required. Further details on the scheduling of courses	
<b>List A - Further</b> The following 8.50 will be provided in advisor.	• Required	<b>d Courses</b> also required. Further details on the scheduling of courses	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2	<b>Required</b> credits are writing pri	<b>d Courses</b> also required. Further details on the scheduling of courses for to each course selection period by the School's faculty	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700	• Required	<b>d Courses</b> also required. Further details on the scheduling of courses	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3	<b>Required</b> credits are writing pri [0.50]	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010	<b>Required</b> credits are writing pri	<b>d Courses</b> also required. Further details on the scheduling of courses for to each course selection period by the School's faculty	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4	<ul> <li><b>Required</b></li> <li>credits are</li> <li>writing pri</li> <li>[0.50]</li> <li>[0.50]</li> </ul>	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220	Required           0 credits are           0 writing pri           [0.50]           [0.50]           [0.50]	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020	<ul> <li>Required</li> <li>credits are</li> <li>credits are</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> </ul>	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*3040	<ul> <li>Required</li> <li>credits are</li> <li>credits are</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> </ul>	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*3040 HTM*2030	Required           0 credits are           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2200	<ul> <li>Required</li> <li>credits are</li> <li>credits are</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> <li>[0.50]</li> </ul>	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*3040 HTM*2030 HTM*2200 Semester 4 or 5	Required           0 credits are           0 credits are	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2200 Semester 4 or 5 HTM*3070	Required           0 credits are           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2200 Semester 4 or 5 HTM*3070 Semester 5 or 6	Required           0 credits are           0 credits are	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2200 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320	<ul> <li>Required</li> <li>credits are</li> <li>writing pri</li> <li>[0.50]</li> </ul>	d Courses also required. Further details on the scheduling of courses for to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2200 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000	Required           0 credits are           0 credits are	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*3040 HTM*2030 HTM*2030 HTM*2030 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3080	Required           0 credits are           0 writing pri           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]           [0.50]	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 HTM*2030 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3080 HTM*3090	Required           0 credits are           0 credits are	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3090 Semester 7 or 8	Required           credits are           writing pri           [0.50]	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II Foodservice Operations Management	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 HTM*2030 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3080 HTM*3090 Semester 7 or 8 HTM*4090	<ul> <li>Required</li> <li>credits are</li> <li>writing pri</li> <li>[0.50]</li> </ul>	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II Foodservice Operations Management Hospitality and Tourism Facilities Management and Design	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 HTM*2030 HTM*3070 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3080 HTM*3090 Semester 7 or 8 HTM*4090 HTM*4100	Required           0 credits are           0 writing pri           [0.50]	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II Foodservice Operations Management Hospitality and Tourism Facilities Management and Design Organizational Behaviour II	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 2 or 3 HTM*2010 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 HTM*2030 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3080 HTM*3080 HTM*3090 Semester 7 or 8 HTM*4090 HTM*4100 HTM*4190	Required           0 credits are           0 writing pri           [0.50]	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II Foodservice Operations Management Hospitality and Tourism Facilities Management and Design Organizational Behaviour II Hospitality and Tourism Facilities Management and Design Organizational Behaviour II	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 2 or 3 HTM*2010 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3070 Semester 7 or 8 HTM*4090 HTM*4190 HTM*4190 HTM*4190 HTM*4200	Required           0 credits are           0 writing pri           [0.50]	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II Foodservice Operations Management Hospitality and Tourism Facilities Management and Design Organizational Behaviour II Hospitality and Tourism Second Second Second	
List A - Further The following 8.50 will be provided in advisor. Semester 1 or 2 HTM*2700 Semester 2 or 3 HTM*2010 Semester 3 or 4 BUS*2220 MCS*2020 MCS*3040 HTM*2030 HTM*2030 HTM*2030 HTM*2030 HTM*2030 HTM*3070 Semester 4 or 5 HTM*3070 Semester 5 or 6 BUS*3320 HTM*3000 HTM*3080 HTM*3080 HTM*3090 Semester 7 or 8 HTM*4090 HTM*4190 HTM*4190 HTM*4190 HTM*4200 List B - Restrict	Required           credits are           writing pri           [0.50]	d Courses also required. Further details on the scheduling of courses ior to each course selection period by the School's faculty Introductory Foods Hospitality and Tourism Business Communications Financial Accounting Information Management Business and Consumer Law Control Systems in the Hospitality Industry Organizational Behaviour I Hospitality and Tourism Management Accounting Financial Management Human Resources Management Hospitality and Tourism Marketing II Foodservice Operations Management Hospitality and Tourism Facilities Management and Design Organizational Behaviour II Hospitality and Tourism Second Second Second	

In addition to the 15.00 required credits listed above, students must take a minimum of 2.50 restricted electives throughout the program. Students may choose to explore a variety of subjects or may choose to study an area allied to their major in some depth. Restricted electives are listed below and have been grouped in major topical areas which are related to, or 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 dealing w	vith the soc	ial and economic environment of business firms and other
		hospitality industry:
ECON*2310	[0.50]	Intermediate Microeconomics
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*3510	[0.50]	Money, Credit and the Financial System
ECON*3520	[0.50]	Labour Economics
ECON*3560 PHIL*1010	[0.50]	Theory of Finance
PHIL*1010 PHIL*2600	[0.50] [0.50]	Introductory Philosophy: Social and Political Issues Business and Professional Ethics
		in developing hospitality related real estate.
MCS*1820	[0.50]	Real Estate and Housing
MCS*2820	[0.50]	Real Estate Finance
MCS*3810	[0.50]	Real Estate Market Analysis
MCS*3820	[0.50]	Real Estate Development
MCS*3890	[0.50]	Property Management
MCS*4820	[0.50]	Real Estate Appraisal
MCS*4840	[0.50]	Housing and Real Estate Law
Courses dealing w	ith human	behaviour particularly as related to work and work groups:
ANTH*1150	[0.50]	Introduction to Anthropology
ECON*2200	[0.50]	Industrial Relations
PSYC*2310	[0.50]	Introduction to Social Psychology
SOAN*2040	[0.50]	Globalization of Work and Organizations
SOC*1100	[0.50]	Sociology
•		forces and consumer behaviour:
AGEC*4360	[0.50]	Marketing Research
MCS*1000	[0.50]	Introductory Marketing
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
MCS*3600 MCS*3620	[0.50]	Consumer Information Processes
Courses related to	[0.50]	Marketing Communications
EDRD*3500	[0.50]	Recreation and Tourism Planning
GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*3490	[0.50]	Tourism and Environment
HTM*2050	[0.50]	Dimensions of Tourism
HTM*2170	[0.50]	Canadian Tourism Policy, Planning and Development
		nal foodservice 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
-	-	tality and Tourism Management:
HTM*2070	[0.50]	Meetings and Convention Management
HTM*3060	[0.50]	Lodging Management
HTM*3150	[0.50]	Experiential Learning in the Hospitality Industry
HTM*3180	[0.50]	Casino Operations Management
HTM*3200	[0.50] [0.50]	Club Management Operations
HTM*3780 HTM*4050	[0.50]	Economics of Food Usage Wine and Oenology
HTM*4070	[0.50]	Wine, Food and Tourism
HTM*4110	[0.50]	Restaurant Operations
HTM*4120	[0.50]	Entrepreneurship in Hospitality and Tourism
HTM*4130	[0.50]	Current Management Topics
HTM*4140	[0.50]	Current Management Topics
HTM*4150	[0.50]	Current Management Topics
HTM*4500	[0.50]	Special Study in Hospitality and Tourism
Other subjects rel	ated to the	study of administration:
AGEC*3310	[0.50]	Operations Management
AGEC*4370	[0.50]	Food & Agri Marketing Management
BUS*2230	[0.50]	Management Accounting
BUS*3330	[0.50]	Intermediate Accounting
BUS*4250	[0.50]	Business Policy
MCS*2100	[0.50]	Personal Financial Management
Other restricted e		
CIS*1000	[0.50]	Introduction to Computer Applications
MCS*3010	[0.50]	Quality Management
ECON*3520	[0.50]	Labour Economics
ENGL*1200 ENGL*1410	[0.50] [0.50]	Reading the Contemporary World Major English Writers
ENGL*1410 PHIL*2100	[0.50] [0.50]	Critical Thinking
REXT*3040	[0.50]	Communication Process
REXT*3060	[0.50]	International Communication
		00 credits in any foreign language as restricted electives.
	r	

#### **Electives and Liberal Education Requirement**

In addition to the 15.00 required credits and the 2.50 restricted electives, the student has 2.50 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. The major is administered by the School of Hospitality and Tourism Management. 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. The academic program consists of 20.00 credits, 15.50 of which are specified as core requirements, 2.00 as restricted electives, and 2.50 as 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 - Fall ECON\*1050 [0.50]Introductory Microeconomics HTM\*1000 [0.50] Introduction to Hospitality and Tourism Management POLS\*1400 [0.50] Issues in Canadian Politics PSYC\*1200 [0.50] Dynamics of Behaviour One of:\* CHEM\*1100 [0.50]Chemistry Today HTM\*2700 [0.50] Introductory Foods \*CHEM\*1100 must be taken by students without Grade 12U or OAC Chemistry. If CHEM\*1100 is not required, then a total of 2.50 restricted electives are required. Semester 2 - Winter ECON\*1100 [0.50] Introductory Macroeconomics HTM\*2000 Hospitality Purchasing Management [0.50] HTM\*2100 [0.50] Lodging Operations HTM\*2120 [0.50] Hospitality and Tourism Marketing I 0.50 from List A or List B or electives Semester 3 - Fall COOP\*1100 [0.00]Introduction to Co-operative Education 2.50 from List A or List B or electives Semester 4 - Winter STAT\*2060 [0.50] Statistics for Business Decisions 2.00 from List A or List B or electives Summer Semester COOP\*1000 Co-op Work Term I [0.00] Fall Semester COOP\*2000 [0.00] Co-op Work Term II Winter Semester COOP\*3000 Co-op Work Term III [0.00] Semester 5 - Fall ECON\*3460 [0.50]Introduction to Finance HTM\*3030 [0.50] Beverage Management 1.50 from List A or List B or electives Semester 6 - Winter HTM\*3120 [0.50] Operations Analysis in the Hospitality and Tourism Industry 2.00 from List A or List B or electives Semester 7 - Fall 2.50 from List A or List B or electives Semester 8 - Winter HTM\*4300 [0.50] Co-operative Education Seminar 2.00 from List A or List B or electives Note: For courses included in List A or List B refer to the regular major. Human Resources Management (HRM) Department of Business, College of Management and Economics

The HRM program provides an academic foundation to prepare students for careers as Human Resources practitioners, and for potential certification by the Human Resources Professionals Association of Ontario (HRPAO) as a Certified Human Resources Professional (CHRP). The HRM program complements a traditional business core with an emphasis on issues relating to people and the workplace. The program combines conceptual and quantitative elements and promotes the integration of theory with practice.

#### X. Degree Programs, Bachelor of Commerce (B.Comm.)

A feature of the program is a required applied research course, where students conduct group projects in workplace settings under the direction of a faculty member.

Presently the HRM program meets the academic requirements for seven out of nine Compulsory Subjects as set out by the Human Resources Professionals Association of Ontario. Students who are interested in completing the two remaining Compulsory Subjects should speak to the HRM Faculty Advisor or B.Comm. Program Counsellors for additional information and guidance on the options available.

For this major, 15.00 of the 20.00 credits are specified as core requirements and the remaining 5.00 as electives. A list of suggested electives follows the description of required courses.

**Note:** Psychology Courses designated with (H) in Section XII--Course Descriptions are Honours level Psychology courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the Human Resources Management major of the Bachelor of Commerce program.

### **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

Semester 1		
MCS*1000	[0.50]	Introductory Marketing
ECON*1050	[0.50]	Introductory Microeconomics
POLS*1400	[0.50]	Issues in Canadian Politics
PSYC*1200	[0.50]	Dynamics of Behaviour
0.50 electives		
Semester 2		
ECON*1100	[0.50]	Introductory Macroeconomics
PSYC*1100	[0.50]	Principles of Behaviour
PSYC*2010	[0.50]	Quantification in Psychology
PSYC*2310	[0.50]	Introduction to Social Psychology
0.50 electives		
Semester 3		
BUS*2220	[0.50]	Financial Accounting
ECON*2200	[0.50]	Industrial Relations
ECON*2310	[0.50]	Intermediate Microeconomics
PSYC*2360	[0.50]	Introductory Research Methods
0.50 electives	. ,	2
Semester 4		
BUS*2230	[0.50]	Management Accounting
MCS*2020	[0.50]	Information Management
HTM*2200	[0.50]	Organizational Behaviour I
PHIL*2600	[0.50]	Business and Professional Ethics
0.50 electives	[]	
Semester 5		
BUS*3320	[0.50]	Financial Management
MCS*3040	[0.50]	Business and Consumer Law
PSYC*3060	[0.50]	Occupational Health Psychology
PSYC*3090	[0.50]	Training and Development
0.50 electives	. ,	
Semester 6		
AGEC*3310	[0.50]	Operations Management
ECON*3560	[0.50]	Theory of Finance
HTM*3000	[0.50]	Human Resources Management
PSYC*3010	[0.50]	Compensation Systems
0.50 electives		
Semester 7		
ECON*3520	[0.50]	Labour Economics
HTM*4100	[0.50]	Organizational Behaviour II
PSYC*4100	[0.50]	Applied Research in Human Resources Management
1.00 electives		
Semester 8		
BUS*4250	[0.50]	Business Policy
HTM*4160	[0.50]	Human Resources Planning
PSYC*4330	[0.50]	Advanced Topics in I/O Psychology (H)
1.00 electives		
Electives		
The following is a	list of cours	ses which may be of interest to students selecting their
electives.		
AGEC*4370	[0.50]	Food & Agri Marketing Management
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2740	[0.50]	Economic Statistics
ECON*4800	[0.50]	Theory of Strategic Management

SOC*1100	[0.50]	Sociology
SOAN*2040	[0.50]	Globalization of Work and Organizations
PSYC*3250	[0.50]	Psychological Measurement
PSYC*2740	[0.50]	Personality
MATH*1000	[0.50]	Introductory Calculus

### Management Economics in Industry and Finance (MEIF)

Department of Economics, College of Management & Economics

The Management Economics in Industry and Finance major is designed to offer students an appreciation of business problems in the areas of industrial organization and finance using the analytical orientation of the discipline of Economics and the tools of Business Management, Marketing and Accounting. This major combines the applied thrust of business courses with the analytical rigor of Economics.

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, Law, and Public Policy. The major is administered by the Department of Economics and students are urged to consult the faculty advisor.

In addition to the Management Economics in Industry and Finance core, students will choose their restricted electives from the List of Restricted Electives. In selecting the restricted electives, students have a choice of either following a program of studies that covers a wide spectrum of topics in the areas of Industry and Finance or declaring an Area of Emphasis if they wish to pursue the study of Industry or Finance in more depth. Students that identify an Area of Emphasis will choose their restricted electives from the appropriate list of restricted electives below. Students wishing to have an Area of Emphasis are encouraged to declare their Area of Emphasis by Semester 4, in order to facilitate the availability of restricted electives. A planning guide is available in the department. Students should note that most courses carry prerequisites and that ECON\*1050 and ECON\*1100 are normally prerequisites for all other courses in Economics.

Students who fail any Economics course twice or who do not achieve a 65% average in Economics courses taken during the first 4 semesters in this major are likely to encounter difficulties in the more advanced courses. They are strongly advised to consult the faculty advisor in Economics to discuss the options available.

For this major, 10.00 credits are specified, 5.00 are restricted electives and 5.00 are free electives. (1.50 Liberal Education Requirement; 2.00 free electives).

#### **Liberal Education Requirement**

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

#### Major

#### Semester 1 ECON\*1050 [0.50] Introductory Microeconomics One of: CIS\*1200 [0.50] Introduction to Computing CIS\*1500 [0.50] Introduction to Programming One of: MATH\*1000 [0.50] Introductory Calculus MATH\*1080 [0.50] Elements of Calculus I MATH\*1200 [0.50] Calculus I 1.00 electives Semester 2 BUS\*2220 [0.50] **Financial Accounting** ECON\*1100 [0.50] Introductory Macroeconomics MCS\*1000 [0.50] Introductory Marketing 1.00 electives Semester 3 BUS\*2230 [0.50] Management Accounting ECON\*2310 [0.50] Intermediate Microeconomics ECON\*2720 [0.50] **Business History** One of: ECON\*2770 Introductory Mathematical Economics [0.50] MCS\*3040 [0.50] Business and Consumer Law 0.50 electives Note: One of ECON\*2770 and MCS\*3040 must be taken in Semester 3; the other must be taken in Semester 4. Semester 4 ECON\*2410 [0.50] Intermediate Macroeconomics ECON\*2740 [0.50] **Economic Statistics** ng their One of: ECON\*2770 Introductory Mathematical Economics [0.50]MCS\*3040 [0.50] Business and Consumer Law 1.00 electives or restricted electives Semester 5 AGEC\*3310 [0.50] **Operations Management**

Last Revision: January 28, 2008

BUS*3320	[0.50]	Financial Management		
ECON*3560	[0.50]	Theory of Finance		
ECON*3740	[0.50]	Introduction to Econometrics		
0.50 electives or restricted electives				

### Semester 6

ECON\*3600 [0.50] Macroeconomics in an Open Economy 2.00 electives or restricted electives

**Note:** ECON\*4710 and ECON\*4810 are recommended for students wishing to pursue graduate studies.

#### Semester 7

HTM\*4390 [0.50] Individuals and Groups in Organizations

#### 2.00 electives or restricted electives Semester 8

ECON\*4800 [0.50] Theory of Strategic Management

#### 2.00 electives or restricted electives

The restricted electives for the MEIF major are listed below. By choosing from this list, students will obtain a broad exposure to the areas of Finance and Industry. If, instead, students wish to obtain a greater degree of specialization in either the area of Finance or Industry, they may opt to diverge from the restricted electives given below and instead choose their restricted electives so as to satisfy the Finance Area of Emphasis Restricted Electives.

#### **Restricted Electives**

4.00 additional credits in economics, of which

- at most 0.50 credits can be at the 2000 level
- at least 0.50 credits must be at the 4000 level only one of ECON\*4900, ECON\*4910 may count as one of the required minimum number of 4000 level economics credits in the B.Comm. program.
- 1.50 credits are from the following:

		8
ECON*3510	[0.50]	Money, Credit and the Financial System
ECON*3520	[0.50]	Labour Economics
ECON*3530	[0.50]	Industrial Organization
ECON*3660	[0.50]	Economics of Equity Markets
1.00 credits from t	he following	g:
AGEC*4240	[0.50]	Futures and Options Markets
AGEC*4360	[0.50]	Marketing Research
AGEC*4370	[0.50]	Food & Agri Marketing Management
BUS*3330	[0.50]	Intermediate Accounting
BUS*4250	[0.50]	Business Policy
Finance Area of I	Emphasis R	estricted Electives:
Students must take	the followi	ng:
AGEC*4240	[0.50]	Futures and Options Markets
ECON*3510	[0.50]	Money, Credit and the Financial System
ECON*3660	[0.50]	Economics of Equity Markets
ECON*3100	[0.50]	Game Theory
ECON*3710	[0.50]	Advanced Microeconomics
ECON*4560	[0.50]	Advanced Topics in Finance
2 00 additional and	dita in agam	amias of which

2.00 additional credits in economics, of which

0.50 at most credits can be at the 2000 level

 at least 1.00 credits must be at the 4000 level - only one of ECON\*4900, ECON\*4910 may count as one of the required minimum number of 4000 level economics credits in the B.Comm. program.

#### Industry Area of Emphasis Restricted Electives:

Students must ta	ke the follo	wing:
ECON*3100	[0.50]	Game Theory
ECON*3530	[0.50]	Industrial Organization
ECON*3710	[0.50]	Advanced Microeconomics
ECON*/1780	[0 50]	Topics in Industrial Organiz

ECON*4780	[0.50]	Topics in Industrial Organization
One of:		
ECON*3200	[0.50]	Economics of Industrial Relations
ECON*3520	[0.50]	Labour Economics
ECON*3580	[0.50]	Economics of Regulation
		· · · · · · · · · · · · · · · · · · ·

2.00 additional credits in economics, of which

 ${\ensuremath{\bullet}}$  at most 0.50 credits can be at the 2000 level

• at least 1.00 credits must be at the 4000 level - only one of ECON\*4900, ECON\*4910 may count as one of the required minimum number of 4000 level economics credits in the B.Comm. program.

0.50 credits from the following:

		•
AGEC*4240	[0.50]	Futures and Options Markets
AGEC*4360	[0.50]	Marketing Research
AGEC*4370	[0.50]	Food & Agri Marketing Management
BUS*3330	[0.50]	Intermediate Accounting
BUS*4250	[0.50]	Business Policy

## Management Economics in Industry and Finance (Co-op) (MEIF:C)

### Department of Economics, College of Management & Economics

A principal aim of the Co-op program in Management Economics in Industry 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 consists of two eight month work terms. The first work term begins after the second year and extends from January to August. The Co-op program is normally completed over a 5 year period.

To be eligible to continue in the Co-op major, students must maintain a satisfactory average, must complete all course requirements as scheduled and must obtain a minimum evaluation of "satisfactory" on all required work term reports. Consult the Co-op advisor or Department for additional program information.

#### **Liberal Education Requirement**

2.00 electives or restricted electives

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 Somester 1

Semester 1		
ECON*1050	[0.50]	Introductory Microeconomics
One of:		
CIS*1200	[0.50]	Introduction to Computing
CIS*1500	[0.50]	Introduction to Programming
One of:		
MATH*1000	[0.50]	Introductory Calculus
MATH*1080	[0.50]	Elements of Calculus I Calculus I
MATH*1200 1.00 electives	[0.50]	Calculus I
Semester 2 - Wi	ntor	
		Einen ziel Assessmelin z
BUS*2220	[0.50]	Financial Accounting
ECON*1100 MCS*1000	[0.50] [0.50]	Introductory Macroeconomics Introductory Marketing
1.00 electives	[0.50]	Infoductory Marketing
Semester 3 - Fal	1	
		Management Assounting
BUS*2230 COOP*1100	[0.50]	Management Accounting Introduction to Co-operative Education
ECON*2310	[0.00] [0.50]	Introduction to Co-operative Education Intermediate Microeconomics
ECON*2720	[0.50]	Business History
ECON*2740	[0.50]	Economic Statistics
0.50 electives	[]	
Semester 4 - Wi	nter	
MCS*3040	[0.50]	Business and Consumer Law
ECON*2410	[0.50]	Intermediate Macroeconomics
ECON*2770	[0.50]	Introductory Mathematical Economics
ECON*3560	[0.50]	Theory of Finance
0.50 electives		
Summer Semest	ter	
COOP*1000	[0.00]	Co-op Work Term I
Fall Semester		
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 - Wi	nter	
AGEC*3310	[0.50]	Operations Management
ECON*3600	[0.50]	Macroeconomics in an Open Economy
ECON*3740	[0.50]	Introduction to Econometrics
1.00 electives or re	stricted ele	ctives
Semester 6 - Fal	1	
BUS*3320	[0.50]	Financial Management
2.00 electives or re	stricted ele	ctives
		y take ECON*3710.
	and ECO	N*4810 are recommended for students wishing to pursue
graduate studies.		
Winter Semeste	r	
COOP*3000	[0.00]	Co-op Work Term III
Summer Semest	ter	
COOP*4000	[0.00]	Co-op Work Term IV
Semester 7 - Fal	1	
HTM*4390	[0.50]	Individuals and Groups in Organizations
2.00 electives or re	stricted ele	ctives
Semester 8 - Wi	nter	
ECON*4800	[0.50]	Theory of Strategic Management
2.00 alastivas on ma	atminted ala	atives

#### **Restricted Electives**

4.00 additional credits in economics, of which

• at most 0.50 credits can be at the 2000 level

- at least 0.50 credits must be at the 4000 level only one of ECON\*4900, ECON\*4910 may count as one of the required minimum number of 4000 level economics credits in the B.Comm. program.
- 1.50 credits are from the following:

• 1.50 ciedits ai	e nom me n	niowing.	
ECON*3510	[0.50]	Money, Credit and the Financial System	
ECON*3520	[0.50]	Labour Economics	
ECON*3530	[0.50]	Industrial Organization	
ECON*3660	[0.50]	Economics of Equity Markets	
1.00 credits from	the following	;:	
AGEC*4240	[0.50]	Futures and Options Markets	
AGEC*4360	[0.50]	Marketing Research	
AGEC*4370	[0.50]	Food & Agri Marketing Management	

<b>Finance Area of</b>	Emphasis	Restricted Electives:
BUS*4250	[0.50]	Business Policy
BUS*3330	[0.50]	Intermediate Accounting
AGLC 4570	[0.50]	1 000 & Agii Marketing Manageme

Students must take the following:

AGEC*4240 ECON*3100	[0.50] [0.50]	Futures and Options Markets Game Theory
ECON*3510	[0.50]	Money, Credit and the Financial System
ECON*3660	[0.50]	Economics of Equity Markets
ECON*3710	[0.50]	Advanced Microeconomics
ECON*4560	[0.50]	Advanced Topics in Finance
2.00 additional or	radita in aac	nomias of which

2.00 additional credits in economics, of which

- 0.50 at most credits can be at the 2000 level
- at least 1.00 credits must be at the 4000 level only one of ECON\*4900, ECON\*4910 may count as one of the required minimum number of 4000 level economics credits in the B.Comm. program.

#### Industry Area of Emphasis Restricted Electives:

Students must take the following:

		-		
ECON*3100	[0.50]	Game Theory		
ECON*3530	[0.50]	Industrial Organization		
ECON*3710	[0.50]	Advanced Microeconomics		
ECON*4780	[0.50]	Topics in Industrial Organization		
One of:				
ECON*3200	[0.50]	Economics of Industrial Relations		
ECON*3520	[0.50]	Labour Economics		
ECON*3580	[0.50]	Economics of Regulation		
2.00 additional credits in Economics, of which				

• at most 0.50 credits can be at the 2000 level

 at least 1.00 credits must be at the 4000 level - only one of ECON\*4900, ECON\*4910 may count as one of the required minimum number of 4000 level economics credits in the B.Comm. program.

0.50 credits from the following:

AGEC*4240	[0.50]	Futures and Options Markets
AGEC*4360	[0.50]	Marketing Research
AGEC*4370	[0.50]	Food & Agri Marketing Management
BUS*3330	[0.50]	Intermediate Accounting
BUS*4250	[0.50]	Business Policy
3.6 3.4		

#### 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 the Faculty Advisors 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 14.50 are specified, 3.00 are restricted electives (from lists), 1.50 are Liberal Education electives, and 1.00 are free electives. A possible program sequence is outlined below.

#### Semester 1- Fall

ECON\*1050 [0.50] Introductory Microeconomics MCS\*1000 [0.50] Introductory Marketing Semester 2 - Winter BUS\*2220 [0.50]Financial Accounting ECON\*1100 [0.50]Introductory Macroeconomics Semesters 1 or 2 - Fall or Winter MATH\*1000 [0.50] Introductory Calculus PSYC\*1200 [0.50] Dynamics of Behaviour 0.50 Communication electives see List E1 0.50 Marketing Environment electives see List E2 0.50 Liberal Education electives 0.50 electives Note: Marketing students who are exceptionally strong in mathematics may consult with the Faculty advisor to substitute an alternative mathematics course for MATH\*1000 (MATH\*1080 or MATH\*1200). Semester 3 - Fall BUS\*2230 [0.50] Management Accounting MCS\*2000 [0.50] Business in a Changing World Semester 4 - Winter STAT\*2060 [0.50] Statistics for Business Decisions Semesters 3 or 4 - Fall or Winter ECON\*2310 [0.50] Intermediate Microeconomics HTM\*3000 [0.50] Human Resources Management MCS\*2020 [0.50] Information Management MCS\*2600 [0.50] Fundamentals of Consumer Behaviour MCS\*3040 [0.50] Business and Consumer Law 0.50 History electives see List E3 0.50 Global Perspective electives see List E4 Semester 5 - Fall BUS\*3320 [0.50] Financial Management Semester 6 - Winter AGEC\*3310 **Operations Management** [0.50]MCS\*3010 [0.50] Quality Management Semesters 5 or 6 - Fall or Winter HTM\*4390 [0.50] Individuals and Groups in Organizations MCS\*3020 [0.50] Services Marketing MCS\*3030 [0.50] Research Methods MCS\*3500 [0.50] Market Analysis and Planning MCS\*3620 [0.50] Marketing Communications 0.50 Leadership/Professionalism electives see List E5 0.50 Liberal Education electives Semester 7 - Fall ECON\*3560 [0.50] Theory of Finance Semester 8 - Winter BUS\*4250 **Business Policy** [0.50] Semesters 7 or 8 - Fall or Winter MCS\*3600 **Consumer Information Processes** [0.50]Management in Product Development MCS\*4040 [0.50] MCS\*4370 [0.50] Marketing Strategy MCS\*4400 [0.50] Pricing Management MCS\*4600 [0.50] International Marketing 0.50 Capstone electives see List E6 0.50 Liberal Education electives 0.50 electives **Restricted Electives for the Marketing Management Major** 

The electives in the B.Comm. Marketing Management program are designed to supplement the major's required courses to ensure achievement of the University's 10 Learning Objectives. They supplement the major's required courses with regard to all of the 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).

Please note that substitutions for restricted electives will be allowed if the Faculty Advisor agrees that a proposed alternative achieves the Learning Objective(s) of the course it will replace and has an equivalent level of rigour.

Also be advised that the following lists allow interested students to earn the Certificate in Leadership offered through the Office of Open Learning, by the College of Management and Economics concurrently with their B.Comm. degree. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements. Please note that successful completion of the Certificate in Leadership is not reflected on University of Guelph transcripts.

#### **Communication Elective - List EI**

Consistent with the University Learning Objective of "Literacy" and to provide a foundation in the first year for oral and written communication in subsequent marketing courses, marketing management majors must take one [0.50 credits] of:

ENGL*1200	[0.50]	Reading the Contemporary World	
LING*1000	[0.50]	Introduction to Linguistics	
PHIL*1050	[0.50]	Introductory Philosophy: Basic Problems	
UNIV*1200	[0.50]	First Year Seminar	
0.50 credits from FREN, GERM, GREK, ITAL, LAT, SPAN			

#### Marketing Environment Elective - List E2

Consistent with the University Learning Objective of "Depth and Breadth of Understanding" and 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
ENVB*2010	[0.50]	Food Production and the Environment
FREN*1000	[0.50]	Understanding the French Speaking World
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
MCS*1400	[0.50]	Introduction to Design
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
SOC*1100	[0.50]	Sociology
<b>History Elective</b>	- List E3	

Consistent with the University Learning Objective of "Sense of Historical Development" and to help marketing majors develop a sense of the fundamental relativity of knowledge and understanding over time, marketing management majors must take one [0.50 credits] of:

ARTH*2490	[0.50]	History of Canadian Art
EURO*1050	[0.50]	The Emergence of a United Europe
HIST*1010	[0.50]	Europe and the Early Modern World
HIST*1250	[0.50]	Science and Society Since 1500
HIST*2070	[0.50]	World Religions in Historical Perspective
HIST*2250	[0.50]	Environment and History
HIST*2390	[0.50]	Imperial and Soviet Russia Since 1800
HIST*2510	[0.50]	The Emergence of Modern European Society 1789-1945
HIST*2800	[0.50]	The History of the Modern Family
HIST*2910	[0.50]	History of Modern Asia
MUSC*2280	[0.50]	Masterworks of Music
		T. ( T. (

#### **Global Perspective Elective - List E4**

Consistent with the University Learning Objective of "Global Understanding" and to help marketing management majors gain the global perspective needed in senior marketing courses such as International Marketing (MCS\*4600), marketing management majors must take one [0.50 credits] of:

ECON*2410	[0.50]	Intermediate Macroeconomics
GEOG*2030	[0.50]	Political Ecology & Geography
HIST*1150	[0.50]	20th-Century Global History
POLS*1500	[0.50]	World Politics
POLS*2080	[0.50]	Development and Underdevelopment
POLS*2200	[0.50]	International Relations
ZOO*1500	[0.50]	Humans in the Natural World - a Zoological Perspective

#### Leadership/Professionalism Elective - List E5

To address the University Learning Objective of "Independence of Thought" as it is achieved through "Moral Maturity" or "Aesthetic Maturity" or "Understanding of Forms of Inquiry", and to help prepare senior marketing management majors for leadership positions in organizations, they must take one [0.50 credits] of:

MCS*2850	[0.50]	Service Learning in Housing
PHIL*2600	[0.50]	Business and Professional Ethics

POLS*3180 POLS*3940	[0.50] [0.50]	Research Methods I: Political Inquiry and Methods Accountability and Canadian Government
REXT*3060	[0.50]	International Communication
REXT*4100	[0.50]	Leadership Development in Rural Organization
UNIV*2000	[0.50]	Foundations of Leadership
Constana Flactiv	- List F6	

#### **Capstone Elective - List E6**

To address the University Learning Objective of "Love of Learning" as it is achieved through "Independence of Thought" and "Depth and Breadth of Learning", senior marketing management majors must take one [0.50 credits] of:

MCS*4050	[0.50]	The Evolution of Capitalism: A Canadian Perspective
MCS*4100	[0.50]	Entrepreneurship
MCS*4300	[0.50]	Marketing and Society
MCS*4910	[0.50]	Topics in Consumer Studies
MCS*4920	[0.50]	Topics in Consumer Studies
MCS*4950	[0.50]	Consumer Studies Practicum

### Marketing Management (Co-op) (MKMN:C)

# Department of Marketing and Consumer Studies, College of Management and Economics

A principal aim of the Co-op program is to facilitate the transition of students from academic studies to a professional career in Marketing Management by enhancing the integration of theory and practice.

The Co-op program consists of two eight month work terms. The first work term begins after the second year. The second work term commences after the third year of studies. The Co-op program is normally completed over a 5 year period.

To be eligible to continue in the Co-op Major students must maintain a satisfactory average, must complete all course requirements as scheduled and must obtain a minimum evaluation of "satisfactory" on all required work term reports. Consult the Co-op advisor or Department 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

#### Semester 1- Fall

Semester I I a	11	
ECON*1050	[0.50]	Introductory Microeconomics
MCS*1000	[0.50]	Introductory Marketing
Semester 2 - W	inter	
BUS*2220	[0.50]	Financial Accounting
ECON*1100	[0.50]	Introductory Macroeconomics
Semesters 1 or	2 - Fall o	r Winter
MATH*1000	[0.50]	Introductory Calculus
PSYC*1200	[0.50]	Dynamics of Behaviour
0.50 Communicat	tion elective	es see List E1
0.50 Marketing E	nvironment	electives see List E2
0.50 Liberal Educ	ation electi	ves
0.50 electives		
Note: Marketing	students wh	no are exceptionally strong in mathematics may consult with
the Faculty advise	or to substit	ute an alternative mathematics course for MATH*1000
(MATH*1080 or	MATH*12	00).
Semester 3 - Fa	all	
BUS*2230	[0.50]	Management Accounting
COOP*1100	[0.00]	Introduction to Co-operative Education
MCS*2000	[0.50]	Business in a Changing World
Semester 4 - W	inter	

Semester 4	vv miter	
STAT*2060	[0.50]	Statistics for Business Decisions
Semesters 3	or 4 - Fall o	r Winter
ECON*2310	[0.50]	Intermediate Microeconomics
HTM*3000	[0.50]	Human Resources Management
MCS*2020	[0.50]	Information Management
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
MCS*3040	[0.50]	Business and Consumer Law
0.50 History el	ectives see Lis	st E3
0.50 Global Pe	rspective elect	tives see List E4
Summer Sen	nester	
COOP*1000	[0.00]	Co-op Work Term I
Fall Semeste	r	
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 -	Winter	
AGEC*3310	[0.50]	Operations Management
MCS*3010	[0.50]	Quality Management

Semester 6 - I	Fall	
BUS*3320	[0.50]	Financial Management
Semesters 5 o	r 6 - Wint	er or Fall
HTM*4390	[0.50]	Individuals and Groups in Organizations
MCS*3020	[0.50]	Services Marketing
MCS*3040	[0.50]	Business and Consumer Law
MCS*3500	[0.50]	Market Analysis and Planning
MCS*3620	[0.50]	Marketing Communications
0.50 Leadership	/Professiona	lism electives see List E5
0.50 Liberal Edu	acation elect	ives
Winter Semes	ster	
COOP*3000	[0.00]	Co-op Work Term III
Summer Sem	ester	
COOP*4000	[0.00]	Co-op Work Term IV
Semester 7 - I	fall	
ECON*3560	[0.50]	Theory of Finance
Semester 8 - V	Winter	
BUS*4250	[0.50]	Business Policy
Semesters 7 o	r 8 - Fall o	or Winter
MCS*3600	[0.50]	Consumer Information Processes
MCS*4040	[0.50]	Management in Product Development
MCS*4370	[0.50]	
MCS*4400	[0.50]	Pricing Management
MCS*4600	[0.50]	International Marketing
0.50 Capstone e	lectives see	List E6
0.50 Liberal Edu	acation elect	ives

0.50 electives

#### **Restricted Electives for the Marketing Management Major**

The electives in the B.Comm. Marketing Management program are designed to supplement the major's required courses to ensure achievement of the University's 10 Learning Objectives. They supplement the major's required courses with regard to all of the 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).

Please note that substitutions for restricted electives will be allowed if the faculty advisor agrees that a proposed alternative achieves the Learning Objective(s) of the course it will replace and has an equivalent level of rigour.

Also be advised that the following lists allow interested students to earn the Certificate in Leadership offered through the Office of Open Learning, by the College of Management and Economics concurrently with their B.Comm. degree. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements. Please note that successful completion of the Certificate in Leadership is not reflected on University of Guelph transcripts.

#### **Communication Elective - List EI**

Consistent with the University Learning Objective of "Literacy" and to provide a foundation in the first year for oral and written communication in subsequent marketing courses, marketing management majors must take one [0.50 credits] of:

ENGL*1200	[0.50]	Reading the Contemporary World
LING*1000	[0.50]	Introduction to Linguistics
PHIL*1050	[0.50]	Introductory Philosophy: Basic Problems
UNIV*1200	[0.50]	First Year Seminar
0.50 credits from	FREN, GEI	RM, GREK, ITAL, LAT, SPAN

#### **Marketing Environment Elective - List E2**

Consistent with the University Learning Objective of "Depth and Breadth of Understanding" and 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
ENVB*2010	[0.50]	Food Production and the Environment
FREN*1000	[0.50]	Understanding the French Speaking World
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
MCS*1400	[0.50]	Introduction to Design
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

#### SOC\*1100 [0.50] Sociology History Elective - List E3

Consistent with the University Learning Objective of "Sense of Historical Development" and to help marketing majors develop a sense of the fundamental relativity of knowledge and understanding over time, marketing management majors must take one [0.50 credits] of:

ARTH*2490	[0.50]	History of Canadian Art
EURO*1050	[0.50]	The Emergence of a United Europe
HIST*1010	[0.50]	Europe and the Early Modern World
HIST*1250	[0.50]	Science and Society Since 1500
HIST*2070	[0.50]	World Religions in Historical Perspective
HIST*2250	[0.50]	Environment and History
HIST*2390	[0.50]	Imperial and Soviet Russia Since 1800
HIST*2510	[0.50]	The Emergence of Modern European Society 1789-1945
HIST*2800	[0.50]	The History of the Modern Family
HIST*2910	[0.50]	History of Modern Asia
MUSC*2280	[0.50]	Masterworks of Music
Clabel Demander	The stime	I :-4 F 4

#### **Global Perspective Elective - List E4**

Consistent with the University Learning Objective of "Global Understanding" and to help marketing management majors gain the global perspective needed in senior marketing courses such as International Marketing (MCS\*4600), marketing management majors must take one [0.50 credits] of:

ECON*2410	[0.50]	Intermediate Macroeconomics
GEOG*2030	[0.50]	Political Ecology & Geography
HIST*1150	[0.50]	20th-Century Global History
POLS*1500	[0.50]	World Politics
POLS*2080	[0.50]	Development and Underdevelopment
POLS*2200	[0.50]	International Relations
ZOO*1500	[0.50]	Humans in the Natural World - a Zoological Perspective
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Leadership/Professionalism Elective - List E5 To address the University Learning Objective of "Independence of Thought" as it is achieved through "Moral Maturity" or "Aesthetic Maturity" or "Understanding of Forms

of Inquiry", and	to help pre	pare senior marketing management majors for leadership
positions in orga	nizations, th	ey must take one [0.50 credits] of:
MCS*2850	[0.50]	Service Learning in Housing
PHIL*2600	[0.50]	Business and Professional Ethics
POLS*3180	[0.50]	Research Methods I: Political Inquiry and Methods
POLS*3940	[0.50]	Accountability and Canadian Government
REXT*3060	[0.50]	International Communication
REXT*4100	[0.50]	Leadership Development in Rural Organization

#### UNIV\*2000 [0.50] Foundations of Leadership

#### **Capstone Elective - List E6**

To address the University Learning Objectives of "Love of Learning" as it is achieved through "Independence of Thought" and "Depth and Breadth of Learning", senior marketing management majors must take one [0.50 credits] of:

MCS*4050	[0.50]	The Evolution of Capitalism: A Canadian Perspective
MCS*4100	[0.50]	Entrepreneurship
MCS*4300	[0.50]	Marketing and Society
MCS*4910	[0.50]	Topics in Consumer Studies
MCS*4920	[0.50]	Topics in Consumer Studies
MCS*4950	[0.50]	Consumer Studies Practicum
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#### 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 employing both political and business-oriented analysis, students will confront questions of why politicians and public servants behave the way they do, and how their policy choices and processes can be optimized. Management of public entities features a unique set of challenges that arise from and interact with basic political issues like democracy, accountability, equity, fairness, and justice. At the same time it necessarily faces concerns common to all organizations, such as efficiency, human and capital resource management, morale, planning, and adaptation to change.

The program will appeal to students interested in the public service, public sector businesses or business-government relations. A co-ordinated sequence of courses may be capped in the final year by a year-long research project and thesis.

For this major, 16.00 of the 20.00 credits are specified as core requirements and the remaining 4.00 as electives. A list of suggested electives follows the description of 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.

#### 298

Semester 1		
ECON*1050	[0.50]	Introductory Microeconomics
MCS*1000	[0.50]	Introductory Marketing
POLS*1400	[0.50]	Issues in Canadian Politics
PSYC*1200	[0.50]	Dynamics of Behaviour
0.50 electives	[0.00]	Dynamics of Dona (10a)
Semester 2		
	50 503	
ECON*1100	[0.50]	Introductory Macroeconomics
POLS*2250	[0.50]	Public Administration
POLS*2300	[0.50]	Canadian Government
1.00 electives		
Semester 3		
BUS*2220	[0.50]	Financial Accounting
ECON*2200	[0.50]	Industrial Relations
ECON*2310	[0.50]	Intermediate Microeconomics
POLS*3250	[0.50]	Public Policy: Challenges and Prospects
0.50 electives		
Semester 4		
BUS*2230	[0 50]	Management Accounting
	[0.50]	
MCS*2020	[0.50]	Information Management
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour
POLS*3270	[0.50]	Local Government in Ontario
STAT*2060	[0.50]	Statistics for Business Decisions
Semester 5		
AGEC*3310	[0.50]	Operations Management
BUS*3320	[0.50]	Financial Management
MCS*3040	[0.50]	Business and Consumer Law
POLS*3110	[0.50]	Politics of Ontario
One of:		
ECON*3610	[0.50]	Public Economics *
0.50 electives		
* ECON*3610 w	ill only be o	ffered once per year. Therefore, students should register for
the course when	it is offered	(either Semester 5 or 6).
Semester 6		
PHIL*2600	[0.50]	Business and Professional Ethics
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3670	[0.50]	Comparative Public Policy and Administration
0.50 electives	[0.50]	comparative r ubite r oney and r animistration
me or	[0.50]	Public Economics *
One of: ECON*3610		
ECON*3610	[0.50]	
ECON*3610 0.50 electives		ffered once per year. Therefore, students should register for
ECON*3610 0.50 electives * ECON*3610 w	vill only be o	
ECON*3610 0.50 electives * ECON*3610 w the course when	vill only be o	ffered once per year. Therefore, students should register for (either Semester 5 or 6).
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ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000	vill only be o it is offered [0.50] [0.50]	(either Semester 5 or 6). Theory of Finance Human Resources Management
ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470	vill only be o it is offered [0.50]	(either Semester 5 or 6). Theory of Finance
ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of:	vill only be o it is offered [0.50] [0.50] [0.50]	(either Semester 5 or 6). Theory of Finance Human Resources Management Business-Government Relations in Canada
ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970	vill only be o it is offered [0.50] [0.50] [0.50] [0.50]	(either Semester 5 or 6). Theory of Finance Human Resources Management Business-Government Relations in Canada Honours Political Science Research I
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ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives	vill only be o it is offered [0.50] [0.50] [0.50] [0.50]	(either Semester 5 or 6). Theory of Finance Human Resources Management Business-Government Relations in Canada Honours Political Science Research I
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ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives Semester 8 BUS*4250	ill only be o it is offered [0.50] [0.50] [0.50] the 4000 lev [0.50]	(either Semester 5 or 6). Theory of Finance Human Resources Management Business-Government Relations in Canada Honours Political Science Research I vel in Political Science Business Policy Individuals and Groups in Organizations
ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives Semester 8 BUS*4250 HTM*4390	(0.50) (0.50) (0.50) (0.50) (0.50) (0.50) (0.50) (0.50) (0.50)	(either Semester 5 or 6). Theory of Finance Human Resources Management Business-Government Relations in Canada Honours Political Science Research I vel in Political Science Business Policy
ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives Semester 8 BUS*4250 HTM*4390 POLS*4250	vill only be o it is offered [0.50] [0.50] [0.50] the 4000 lev [0.50] [0.50] [0.50]	<ul> <li>(either Semester 5 or 6).</li> <li>Theory of Finance Human Resources Management Business-Government Relations in Canada</li> <li>Honours Political Science Research I vel in Political Science</li> <li>Business Policy Individuals and Groups in Organizations Topics in Public Management</li> </ul>
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ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives Semester 8 BUS*4250 HTM*4390 POLS*4250 One of: POLS*4980 0.50 credits at 0.50 electives Electives The following is electives.	vill only be o it is offered [0.50] [0.50] [0.50] the 4000 lev [0.50] [0.50] [0.50] [0.50] the 4000 lev a list of co	<ul> <li>(either Semester 5 or 6).</li> <li>Theory of Finance Human Resources Management Business-Government Relations in Canada</li> <li>Honours Political Science Research I vel in Political Science</li> <li>Business Policy Individuals and Groups in Organizations Topics in Public Management</li> <li>Honours Political Science Research II vel in Political Science</li> </ul>
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ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives Semester 8 BUS*4250 HTM*4390 POLS*4250 One of: POLS*4250 One of: POLS*4250 One of: POLS*4980 0.50 credits at 0.50 electives Electives Electives Electives. ECON*2410 POLS*3330 POLS*3370 POLS*3440	vill only be o it is offered [0.50] [0.50] [0.50] (0.50] the 4000 lev [0.50] [0.50] [0.50] the 4000 lev a list of co [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50]	<ul> <li>(either Semester 5 or 6).</li> <li>Theory of Finance Human Resources Management Business-Government Relations in Canada Honours Political Science Research I vel in Political Science</li> <li>Business Policy Individuals and Groups in Organizations Topics in Public Management Honours Political Science Research II vel in Political Science</li> <li>urses which may be of interest to students selecting their Intermediate Macroeconomics Politics and Trade Liberalization in the Americas Environmental Policy Formation and Administration Corruption, Scandal and Political Ethics</li> </ul>
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ECON*3610 0.50 electives * ECON*3610 w the course when Semester 7 ECON*3560 HTM*3000 POLS*3470 One of: POLS*4970 0.50 credits at 0.50 electives Semester 8 BUS*4250 HTM*4390 POLS*4250 One of: POLS*4250 One of: POLS*4250 One of: POLS*4980 0.50 credits at 0.50 electives Electives Electives Electives. ECON*2410 POLS*3330 POLS*3370 POLS*3440	vill only be o it is offered [0.50] [0.50] [0.50] (0.50] the 4000 lev [0.50] [0.50] [0.50] the 4000 lev a list of co [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50]	<ul> <li>(either Semester 5 or 6).</li> <li>Theory of Finance Human Resources Management Business-Government Relations in Canada Honours Political Science Research I vel in Political Science</li> <li>Business Policy Individuals and Groups in Organizations Topics in Public Management Honours Political Science Research II vel in Political Science</li> <li>urses which may be of interest to students selecting their Intermediate Macroeconomics Politics and Trade Liberalization in the Americas Environmental Policy Formation and Administration Corruption, Scandal and Political Ethics</li> </ul>

#### X. Degree Programs, Bachelor of Commerce (B.Comm.)

A principal aim of the Co-op program in Public Management is to facilitate the transition students from academic studies to professional career in government or the private r by enhancing the integration of theory and practice.

ents who want to graduate with the Co-op designation must complete a minimum of of the five work terms, including those in the fall and winter semesters and two of aree summer placements. In other words, should students so choose, one of the three ner work placements can be optional.

e eligible to continue in the Co-op major, students must maintain a satisfactory ge, complete all course requirements as scheduled, and obtain a minimum evaluation atisfactory" on all work term reports. Consult the Co-op advisor or Department for ional program information.

#### eral Education Requirement

art of the graduation requirement all students within the B.Comm. Program are red to complete 1.50 credits from at least two different subject prefixes as listed the B.Comm. Program Information section of the undergraduate calendar.

### jor

#### ester 1 - Fall

CON*1050	[0.50]	Introductory Microeconomics
ICS*1000	[0.50]	Introductory Marketing
OLS*1400	[0.50]	Issues in Canadian Politics
SYC*1200	[0.50]	Dynamics of Behaviour
50 electives		
emester 2 - Wi	inter	
CON*1100	[0.50]	Introductory Macroeconomics
OLS*2250	[0.50]	Public Administration
OLS*2300	[0.50]	Canadian Government
00 electives		
emester 3 - Fa	11	
US*2220	[0.50]	Financial Accounting
OOP*1100	[0.00]	Introduction to Co-operative Education
CON*2200	[0.50]	Industrial Relations
CON*2310	[0.50]	Intermediate Microeconomics
OLS*3250	[0.50]	Public Policy: Challenges and Prospects
50 electives		
emester 4 - Wi	inter	
US*2230	[0.50]	Management Accounting
ICS*2600	[0.50]	Fundamentals of Consumer Behaviour
OLS*3270	[0.50]	Local Government in Ontario
ГАТ*2060	[0.50]	Statistics for Business Decisions
50 electives		
ummer Semes	ter	
OOP*1000	[0.00]	Co-op Work Term I
all Semester		
OOP*2000	[0.00]	Co-op Work Term II
emester 5 - Wi	inter	-
CON*3560	[0.50]	Theory of Finance
ICS*2020	[0.50]	Information Management
HIL*2600	[0.50]	Business and Professional Ethics
OLS*3210	[0.50]	The Constitution and Canadian Federalism
50 electives		
ummer Semes	ter	
OOP*3000	[0.00]	Co-op Work Term III
emester 6 - Fa		•••• <b>F</b>
GEC*3310	[0.50]	Operations Management
TM*3000	[0.50]	Human Resources Management
ICS*3040	[0.50]	Business and Consumer Law
OLS*3110	[0.50]	Politics of Ontario
OLS*3470	[0.50]	Business-Government Relations in Canada
Vinter Semeste		
OOP*4000	[0.00]	Co-op Work Term IV
ummer Semes		co-op work remitiv
OOP*5000	[0.00]	Co-op Work Term V
emester 7 - Fa		
US*3320	[0.50]	Financial Management
TM*4390	[0.50]	Individuals and Groups in Organizations
50 electives		
ne of:	FO =07	
POLS*4970	[0.50]	Honours Political Science Research I
	ie 4000 lev	el in Political Science
ne of: ECON*3610	[0.50]	Public Economics *
0.50 electives	[0.50]	r ubite Economies
0.50 010011003		

\* ECON\*3610 will only be offered once per year. Therefore, students should register for Semester 5 the course when it is offered (either Semester 7 or 8).

Semester 8 - Winter				
BUS*4250	[0.50]	Business Policy		
POLS*3670	[0.50]	Comparative Public Policy and Administration		
POLS*4250	[0.50]	Topics in Public Management		
One of:				
POLS*4980	[0.50]	Honours Political Science Research II		
0.50 credits at	the 4000 lev	el in Political Science		
One of:				

ECON\*3610 [0.50] Public Economics \* 0.50 electives

\* ECON\*3610 will only be offered once per year. Therefore, students should register f the course when it is offered (either Semester 7 or 8).

#### Electives

The following is a list of courses which may be of interest to students selecting the electives.

ECON*2410	[0.50]	Intermediate Macroeconomics
POLS*3330	[0.50]	Politics and Trade Liberalization in the Americas
POLS*3370	[0.50]	Environmental Policy Formation and Administration
POLS*3440	[0.50]	Corruption, Scandal and Political Ethics
POLS*3790	[0.50]	The Political Economy of International Relations
POLS*3940	[0.50]	Accountability and Canadian Government
SOAN*2040	[0.50]	Globalization of Work and Organizations

#### **Real Estate and Housing (REH)**

#### Department of Marketing and Consumer Studies, College of Management and Economics

The Real Estate and Housing major in the B.Comm. program is one of only two undergraduate programs in Canada that specialize in the real estate sector. It takes a multi-disciplinary approach to the study of residential and commercial/investment real estate. Topics such as the development, financing, valuation, market analysis and management of real estate are taught in the context of economic, legal, political and social factors affecting this large and growing field of business in Canada and the world.

The purpose of this major is to develop the conceptual, analytical and management skills required for careers in real estate and housing. Students graduate with a degree that can lead to a variety of professional positions in the private or public sectors of the Canadian real estate industry or they can continue on to graduate work in business, planning or the social sciences.

Students in the Real Estate and Housing major are required to take the courses listed below. In addition, some may wish to make use of groupings of elective courses in order to pursue individual interests or develop additional focus.

Students may consult the departmental Academic 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

Semester 1	L
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ECON*1050	[0.50]	Introductory Microeconomics
MATH*1000	[0.50]	Introductory Calculus
MCS*1000	[0.50]	Introductory Marketing
MCS*1820	[0.50]	Real Estate and Housing
0.50 electives		C

Note: Students who are exceptionally strong in mathematics may substitute either MATH\*1080 or MATH\*1200 for MATH\*1000.

Semester 2	
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ECON*1100 MCS*1400 POLS*2300 1.00 electives Semester 3	[0.50] [0.50] [0.50]	Introductory Macroeconomics Introduction to Design Canadian Government
Semester 5		
BUS*2220	[0.50]	Financial Accounting
MCS*2020	[0.50]	Information Management
ECON*2310	[0.50]	Intermediate Microeconomics
1.00 electives		
Semester 4		
BUS*2230	[0.50]	Management Accounting
MCS*2820	[0.50]	Real Estate Finance
MCS*2850	[0.50]	Service Learning in Housing
STAT*2060	[0.50]	Statistics for Business Decisions
0.50 electives		

	ECON*3560	[0.50]	Theory of Finance
	ECON*2410	[0.50]	Intermediate Macroeconomics
	MCS*3810	[0.50]	Real Estate Market Analysis
	MCS*4840	[0.50]	Housing and Real Estate Law *
	0.50 to 1.00 elec	tives	
	* This course is	offered even	ry other year; should be taken in Semester 5 or 7.
	Semester 6		
	ECON*3510	[0.50]	Money, Credit and the Financial System
	LARC*2820	[0.50]	Urban and Regional Planning
	MCS*3030	[0.50]	Research Methods
	MCS*3820	[0.50]	Real Estate Development
for	0.50 electives		
	Semester 7		
	BUS*3320	[0.50]	Financial Management
neir	ECON*3500	[0.50]	Urban Economics
	HTM*4390	[0.50]	Individuals and Groups in Organizations
	MCS*4820	[0.50]	Real Estate Appraisal
	0.50 electives or	MCS*4840	) if not taken in Semester 5
	Semester 8		
	MCS*3890	[0.50]	Property Management
	MCS*4810	[0.50]	Real Estate and Housing Project
	POLS*3270	[0.50]	Local Government in Ontario
	1.00 electives		
	D. IE-4-4-		$(\mathbf{O}_{1}, \mathbf{v}_{2})$ ( <b>DEII</b> $(\mathbf{O})$

#### Real Estate and Housing (Co-op) (REH:C)

#### Department of Marketing and Consumer Studies, College of Management and Economics

A principal aim of the Co-op program is to facilitate the transition of students from academic studies to a professional career in the real estate industry by enhancing the integration of theory and practice.

The Co-op program consists of two eight month work terms. The Co-op program is normally completed over a 5 year period.

To be eligible to continue in the Co-op Major students must maintain a satisfactory average, must complete all course requirements as scheduled and must obtain a minimum evaluation of "satisfactory" on all required work term reports. Consult the Co-op advisor or Department 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

#### Semester 1 - Fall

Semester 1	1 an	
ECON*1050	[0.50]	Introductory Microeconomics
MATH*1000	[0.50]	Introductory Calculus
MCS*1000	[0.50]	Introductory Marketing
MCS*1820	[0.50]	Real Estate and Housing
0.50 electives		
Note: Studente	who are aver	ntionally strong in mathematics m

Note: Students who are exceptionally strong in mathematics may substitute either MATH\*1080 or MATH\*1200 for MATH\*1000.

#### Semester 2 - Winter

ECON*1100	[0.50]	Introductory Macroeconomics
MCS*1400	[0.50]	Introduction to Design
POLS*2300	[0.50]	Canadian Government
1.00 electives	[]	
Semester 3 - Fa	11	
BUS*2220	[0.50]	Financial Accounting
COOP*1100	[0.00]	Introduction to Co-operative Education
ECON*2310	[0.50]	Intermediate Microeconomics
MCS*2020	[0.50]	Information Management
1.00 electives		-
Semester 4 - W	inter	
BUS*2230	[0.50]	Management Accounting
ECON*2410	[0.50]	Intermediate Macroeconomics
MCS*2820	[0.50]	Real Estate Finance
STAT*2060	[0.50]	Statistics for Business Decisions
0.50 electives		
Summer Semes	ter	
COOP*1000	[0.00]	Co-op Work Term I
Fall Semester		
COOP*2000	[0.00]	Co-op Work Term II

#### Semester 5 - Winter Semester 5 HTM\*3070 ECON\*3510 [0.50]Money, Credit and the Financial System [0.50] Hospitality and Tourism Management Accounting MCS\*2850 [0.50] Service Learning in Housing HTM\*3080 [0.50] Hospitality and Tourism Marketing II MCS\*3820 [0.50] Real Estate Development HTM\*3160 [0.50] Destination Management and Marketing MCS\*3890 MCS\*3040 [0.50] Business and Consumer Law [0.50] Property Management 0.50 electives 0.50 from List A or electives Semester 6 - Fall Semester 6 ECON\*3560 [0.50] Theory of Finance AGEC\*4360 [0.50] Marketing Research MCS\*3030 [0.50] Research Methods BUS\*3320 [0.50] Financial Management MCS\*3810 [0.50] Real Estate Market Analysis HTM\*3000 [0.50] Human Resources Management [0.50] HTM\*3120 Operations Analysis in the Hospitality and Tourism MCS\*4840 Housing and Real Estate Law \* [0.50] 0.50 or 1.00 electives Industry \* This course if offered every other year; should be taken in Semester 6 or 7. 0.50 from List A or electives Winter Semester Semester 7 COOP\*3000 [0.00] Co-op Work Term III ECON\*3460 [0.50] Introduction to Finance HTM\*4100 Summer Semester [0.50] Organizational Behaviour II HTM\*4190 [0.50] Hospitality and Tourism Operations Planning COOP\*4000 [0.00] Co-op Work Term IV 1.00 from List A or electives Semester 7 - Fall Semester 8 BUS\*3320 [0.50] Financial Management HTM\*4170 [0.50] International Tourism Development and Management ECON\*3500 [0.50] Urban Economics HTM\*4200 [0.50] Policy Issues in Hospitality and Tourism Management MCS\*4820 [0.50] Real Estate Appraisal One of: HTM\*4390 [0.50] Individuals and Groups in Organizations EDRD\*3550 [0.50] Economic Development for Rural and Smaller 0.50 electives or MCS\*4840 if not taken in Semester 6 Communities Semester 8 - Winter EDRD\*4010 [0.50] Tourism Planning in the Less Developed World LARC\*2820 [0.50] Urban and Regional Planning 1.00 from List A or electives MCS\*4810 [0.50] Real Estate and Housing Project List A - Restricted Electives POLS\*3270 [0.50] Local Government in Ontario

In addition to the 14.50 required credits, students must also take a minimum of 3.00 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 up to 2.00 credits in language courses as restricted electives. Students without a second language are strongly recommended to take language courses.

Courses related to eco-tourism:			
AGEC*2700	[0.50]	Survey of Natural Resource Economics	
AGEC*4290	[0.50]	Land Economics	
AGEC*4310	[0.50]	Resource Economics	
ECON*2100	[0.50]	Economic Growth and Environmental Quality	
EDRD*3400	[0.50]	Sustainable Communities	
EDRD*3550	[0.50]	Economic Development for Rural and Smaller	
	[]	Communities	
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 Policy Formation and Administration	
Courses related to	internation	nal tourism:	
ECON*2650	[0.50]	Introductory Development Economics	
ECON*3620	[0.50]	International Trade	
ECON*4830	[0.50]	Economic Development	
EDRD*4010	[0.50]	Tourism Planning in the Less Developed World	
GEOG*3490	[0.50]	Tourism and Environment	
HTM*2740	[0.50]	Cultural Aspects of Food	
REXT*3060	[0.50]	International Communication	
Courses for those i	interested in	n developing tourism related real estate:	
MCS*1820	[0.50]	Real Estate and Housing	
MCS*2820	[0.50]	Real Estate Finance	
MCS*3810	[0.50]	Real Estate Market Analysis	
MCS*3820	[0.50]	Real Estate Development	
MCS*3890	[0.50]	Property Management	
MCS*4820	[0.50]	Real Estate Appraisal	
MCS*4840	[0.50]	Housing and Real Estate Law	
GEOG*3490	[0.50]	Tourism and Environment	
LARC*2820	[0.50]	Urban and Regional Planning	
Courses dealing with the social and economic environment of business:			
ECON*2410	[0.50]	Intermediate Macroeconomics	
PHIL*1010	[0.50]	Introductory Philosophy: Social and Political Issues	
PHIL*2600	[0.50]	Business and Professional Ethics	
Courses dealing wi	Courses dealing with human behaviour particularly as related to work and work groups:		
ANTH*1150	[0.50]	Introduction to Anthropology	
ANTH*2160	[0.50]	Social Anthropology	
ECON*2200	[0.50]	Industrial Relations	
PSYC*2310	[0.50]	Introduction to Social Psychology	
PSYC*3060	[0.50]	Occupational Health Psychology	

#### **Tourism Management (TMGT)**

1.00 electives

# 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, cost controls, 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. 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. Students may consult the Faculty Advisor or the B.Comm. Program Counsellor for additional information.

For this major, 14.50 of the 20.00 credits are specified as core requirements, 3.00 as restricted electives (List A), and the remaining 2.50 as 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		
ECON*1050	[0.50]	Introductory Microeconomics
GEOG*1220	[0.50]	Human Impact on the Environment
HTM*1000	[0.50]	Introduction to Hospitality and Tourism Management
POLS*1400	[0.50]	Issues in Canadian Politics
PSYC*1200	[0.50]	Dynamics of Behaviour
Semester 2		
ECON*1100	[0.50]	Introductory Macroeconomics
HTM*2010	[0.50]	Hospitality and Tourism Business Communications
HTM*2100	[0.50]	Lodging Operations
HTM*2120	[0.50]	Hospitality and Tourism Marketing I
0.50 from List A	or electives	
Semester 3		
BUS*2220	[0.50]	Financial Accounting
HTM*2050	[0.50]	Dimensions of Tourism
MCS*2020	[0.50]	Information Management
1.00 from List A	or electives	
Semester 4		
HTM*2170	[0.50]	Canadian Tourism Policy, Planning and Development
HTM*2200	[0.50]	Organizational Behaviour I
STAT*2060	[0.50]	Statistics for Business Decisions
1.00 from List A	or electives	

Courses dealing with marketing and consumer behaviour:			
AGEC*4370	[0.50]	Food & Agri Marketing Management	
MCS*1000	[0.50]	Introductory Marketing	
MCS*2600	[0.50]	Fundamentals of Consumer Behaviour	
MCS*3600	[0.50]	Consumer Information Processes	
MCS*3620	[0.50]	Marketing Communications	
MCS*4050	[0.50]	The Evolution of Capitalism: A Canadian Perspective	
Courses related to		y and Tourism Management:	
HTM*2070	[0.50]	Meetings and Convention Management	
HTM*2700	[0.50]	Introductory Foods	
HTM*2740	[0.50]	Cultural Aspects of Food	
HTM*3030	[0.50]	Beverage Management	
HTM*3060	[0.50]	Lodging Management	
HTM*3090	[1.00]	Foodservice Operations Management	
HTM*3180	[0.50]	Casino Operations Management	
HTM*3200	[0.50]	Club Management Operations	
HTM*3780	[0.50]	Economics of Food Usage	
HTM*4050	[0.50]	Wine and Oenology	
HTM*4070	[0.50]	Wine, Food and Tourism	
HTM*4090	[0.50]	Hospitality and Tourism Facilities Management and Design	
HTM*4110	[0.50]	Restaurant Operations	
HTM*4120	[0.50]	Entrepreneurship in Hospitality and Tourism	
HTM*4130	[0.50]	Current Management Topics	
HTM*4140	[0.50]	Current Management Topics	
HTM*4150	[0.50]	Current Management Topics	
HTM*4500	[0.50]	Special Study in Hospitality and Tourism	
Courses related to accounting and administration:			
AGEC*3310	[0.50]	Operations Management	
BUS*2230	[0.50]	Management Accounting	
BUS*3330	[0.50]	Intermediate Accounting	
BUS*4250	[0.50]	Business Policy	
MCS*2100	[0.50]	Personal Financial Management	
Other restricted el	ectives:		
CHEM*1100	[0.50]	Chemistry Today	
CIS*1000	[0.50]	Introduction to Computer Applications	
MCS*3010	[0.50]	Quality Management	
ENGL*1410	[0.50]	Major English Writers	
PHIL*2100	[0.50]	Critical Thinking	
REXT*3040	[0.50]	Communication Process	
Electives and Liberal Education Requirement			
TI 0 50 1 (	· .1		

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.

Guelph's Bachelor of Computing degree combines the necessary theoretical background with a focus on the application of computing science.. Course projects which are based on real-world software development scenarios allow students to get the practical experience valued by today's high-tech employers. The focused study in a second discipline (area of application) gives students the necessary background to effectively apply their knowledge.

For the degree of Bachelor of Computing the University of Guelph offers a specialized program requiring the equivalent of 8 semesters of successful full-time study (honours program) and a general program requiring the equivalent of 6 semesters of successful full-time study (general program). The honours program is also available as a Co-op degree.

A student may register in any of the 3 semesters (Summer, Fall, Winter). Since not all courses are offered in every semester and prerequisite dependencies must be observed, students are encouraged to consult the program counsellor for the B.Comp. program to plan an initial program of study or when considering modifications to the suggested schedule of studies list (below).

### **Program Information**

### **B.Comp. Program Regulations**

The general program is designed to provide a sound general education in computing. The honours program is designed to provide depth of study and specialization beyond that available in the general program, while at the same time ensuring a complementary background in an area of application.

### 1. Requirements for a General Degree

To graduate from a general program a student must:

- a. earn 15.00 credits. These must include courses that fulfill the distribution requirements of the General Degree (see below). At least 4.00 credits must be at the 3000 level or above. Not more than 6.00 credits at the introductory (1000) level may be counted towards the 15.00 credit requirement.
- b. no more than 11.00 credits in any one subject or discipline, as indicated by the course prefix code, can be counted towards a general degree.
- c. successfully complete the following credits:

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	
0.5 additional CIS or STAT credits at the 2000 level or higher			
1.0 additional C	IS 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.

### 2. Requirements for an Honours Degree

To graduate from an honours program a student must:

a. successfully complete 20.00 credits. These must include the 11.75 credits that fulfill the Computing Core Requirements (below), a minimum of 4.00 credits in an Area of Application (below) and an additional 4.25 credits as free electives. Not more than 6.00 credits from courses at the introductory (1000) level may be counted towards the 20.00 credit requirement.

The program requires 6.00 credits at the 3000 level or above and 2.00 credits at the 4000 level, while the area of application requires an additional 1.00 credits at the 3000 level or above. The Area of Application is a graduation requirement and must be approved by Semester 4 by the faculty advisor.

b. complete the following Computing Core Requirements:

. complete the lo	nowing com	puting core requirements.
CIS*1500	[0.50]	Introduction to Programming
CIS*1910	[0.50]	Discrete Structures in Computing I
CIS*2030	[0.50]	Structure and Application of Microcomputers
CIS*2430	[0.50]	Object Oriented Programming
CIS*2460	[0.50]	Modelling of Computer Systems
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*3110	[0.50]	Operating Systems
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms
CIS*3530	[0.50]	Data Base Systems and Concepts

X. Degree Programs,	Bachelor of Computing (B.Comp.)

CIS*3750	[0.75]	System Analysis and Design in Applications
CIS*4000	[0.50]	Applications of Computing Seminar
MATH*1200	[0.50]	Calculus I
STAT*2040	[0.50]	Statistics I
1.75 additional C	CIS credits a	t the 3000 level or above
1.50 additional C	CIS credits a	t the 4000 level or above

additional CIS credits at the 4000 level or above

- c. obtain a cumulative average at least 70% in CIS courses. Students who do not satisfy this requirement at graduation may apply for a General Degree.
- d. earn at least 4.00 credits in an Area of Application with at least 1.00 credits at the 3000 level or above. These credits must be taken from a single department or subject other than Computing and Information Science.

An area of Application normally consists of 4.00 credits (normally 8 courses) of a minor. Minors in the B.A. program and B.Sc. 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.

Some courses may have enrolment restrictions placed on them.

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.

#### 3. 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.

### Schedule of Studies

Since many courses are offered in only one semester and course prerequisites 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. This schedule assumes a Fall/Winter semester sequence.

### **Major (Honours Program)**

School of Computing and Information Science, College of Physical and Engineering Science

#### Semester 1

Semester 1				
CIS*1500	[0.50]	Introduction to Programming		
MATH*1200	[0.50]	Calculus I		
1.50 credits in the	Area of Ap	pplication or electives		
Semester 2				
CIS*1910	[0.50]	Discrete Structures in Computing I		
CIS*2500	[0.50]	Intermediate Programming		
1.50 credits in the	Area of Aj	pplication or electives		
Semester 3				
CIS*2030	[0.50]	Structure and Application of Microcomputers		
CIS*2430	[0.50]	Object Oriented Programming		
CIS*2520	[0.50]	Data Structures		
CIS*2910	[0.50]	Discrete Structures in Computing II		
0.50 credits in the	Area of Ap	pplication or electives		
Semester 4				
CIS*2750	[0.75]	Software Systems Development and Integration		
CIS*3110	[0.50]	Operating Systems		
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms		
STAT*2040	[0.50]	Statistics I		
	Area of Aj	pplication or elective		
Semester 5				
CIS*2460	[0.50]	Modelling of Computer Systems		
CIS*3530	[0.50]	Data Base Systems and Concepts		
CIS*3750	[0.75]	System Analysis and Design in Applications		
0.75 credits in the Area of Application or electives				
Semester 6				
Alternative 1 [Rec	commended	1]		
CIS*3760	[0.75]	Software Engineering		
0.50 C.I.S electives at the 3000 level or above				
1.25 credits in the Area of Application or electives				
OR Alternative 2				
(1.50 C.I.S electiv				
	Area of Ap	pplication or electives)		
Semester 7				
		pplication or electives		
0.50 credits in CIS at 3000 level or above				
1.00 credits in CIS at the 4000 level				
Semester 8				
CIS*4000	[0.50]	Applications of Computing Seminar		

ıg 1.50 credits in the Area of Application or electives

#### 0.50 credits in CIS at the 4000 level Schedule of Studies Co-op

Since many courses are offered in only one semester and course prerequisites 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. This schedule assumes a Fall/Winter semester sequence.

### Major Co-op (Honours Program)

#### School of Computing and Information Science, College of Physical and Engineering Science

The Honours Bachelor of Computing degree is also available as a Co-operative Education Program. Students may apply for this option at the time of University admission or completion of semester 2. Three co-op work terms are required in Stream A and four are required in Stream B. Please check with CIS Co-op faculty advisor for semester planning.

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.

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). Other sequences may not be viable for the co-op student. Please check with the CIS Co-op faculty advisor for semester planning. COOP\*1000, COOP\*2000, COOP\*3000, and COOP\*4000 represent the first, second, third, and fourth work terms respectively.

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.

#### Work/Study Semesters

#### Stream A Co-Op Schedule of Studies

00000	P Seneau			
Semester 1(Fall)				
CIS*1500	[0.50]	Introduction to Programming		
MATH*1200	[0.50]	Calculus I		
1.50 credits in the	Area of Ap	plication or electives		
Semester 2(Winte	er)	-		
CIS*1910	[0.50]	Discrete Structures in Computing I		
CIS*2500	[0.50]	Intermediate Programming		
COOP*1100	[0.00]	Introduction to Co-operative Education		
1.50 credits in the	Area of Ap	plication or electives		
Semester 3(Sumn	ier)	•		
CIS*2030	[0.50]	Structure and Application of Microcomputers		
CIS*2430	[0.50]	Object Oriented Programming		
CIS*2520	[0.50]	Data Structures		
CIS*2910	[0.50]	Discrete Structures in Computing II		
0.50 credits in the	Area of Ap	plication or electives		
Fall Semester		•		
COOP*1000 Work	c Term I			
Semester 4(Winte	er)			
CIS*2750	[0.75]	Software Systems Development and Integration		
CIS*3110	[0.50]	Operating Systems		
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms		
STAT*2040	[0.50]	Statistics I		
0.25 credits in the	Area of Ap	plication or electives		
Summer Semester	r			
COOP*2000 Work	c Term 2			
Semester 5(Fall)				
CIS*2460	[0.50]	Modelling of Computer Systems		
CIS*3530	[0.50]	Data Base Systems and Concepts		
CIS*3750	[0.75]	System Analysis and Design in Applications		
0.75 credits in the	Area of Ap	plication or electives		
Winter Semester				
COOP*3000 Work	c Term 3			
Semester 6(Sumn	ner)			
Alternative 1 [Rec	ommended	]		
CIS*3760	[0.75]	Software Engineering		
0.50 C.I.S elective	s at the 300	0 level or above		
1.25 credits in the	Area of Ap	plication or electives		
OR Alternative 2		•		
(1.50 C.I.S elective	es at the 30	00 level or above		
1.00 credits in the Area of Application or electives)				
Semester 7(Fall)				
1.00 credits in the	Area of Ap	plication or electives		
0.50 credits in CIS at 3000 level or above				

#### Semester 8(Winter)

CIS\*4000 [0.50] Applications of Computing Seminar

# s:

	1	plication or electives			
0.50 credits in CIS at the 4000 level					
The recommend	ded sched	ule of studies for Co-op Stream B is as follows:			
Semester 1(Fall)					
CIS*1500	[0.50]	Introduction to Programming			
MATH*1200	[0.50]	Calculus I			
		plication or electives			
Semester 2(Winte	er)				
CIS*1910	[0.50]	Discrete Structures in Computing I			
CIS*2500	[0.50]	Intermediate Programming			
COOP*1100	[0.00]	Introduction to Co-operative Education			
	1	plication or electives			
Summer Semester	r Off				
Semester 3(Fall)					
CIS*2030	[0.50]	Structure and Application of Microcomputers			
CIS*2430	[0.50]	Object Oriented Programming			
CIS*2520	[0.50]	Data Structures			
CIS*2910	[0.50]	Discrete Structures in Computing II			
0.50 credits in the	Area of Ap	plication or electives			
Semester 4(Winte	er)				
CIS*2750	[0.75]	Software Systems Development and Integration			
CIS*3110	[0.50]	Operating Systems			
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms			
STAT*2040	[0.50]	Statistics I			
0.25 credits in the	Area of Ap	plication or elective			
Summer Semeste	r				
COOP*1000 Work	c Term 1				
Semester 5(Fall)					
CIS*2460	[0.50]	Modelling of Computer Systems			
CIS*3530	[0.50]	Data Base Systems and Concepts			
CIS*3750	[0.75]	System Analysis and Design in Applications			
0.75 credits in the Area of Application or electives					
	nould be tak	ten here to enable future courses in distributed computing.			
Winter Semester					
COOP*2000 Work	COOP*2000 Work Term 2				
Semester 6(Sumn	Semester 6(Summer)				
Alternative 1 [Rec	ommended	]			
CIS*3760 [0.75] Software Engineering					
0.50 C.I.S electives at the 3000 level or above					
1.25 credits in the	1.25 credits in the Area of Application or electives				
OR Alternative 2					
(1.50 C.I.S elective	(1.50 C.I.S electives at the 3000 level or above				
1.00 credits in the Area of Application or electives)					
Fall Semester					
COOP*3000 Work	c Term 3				
Semester 7(Winte	er)				
1.00 credits in the	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	1.00 credits in CIS at the 4000 level				
Summer Semeste	r				
COOP*4000 Work Term 4					
Semester 8(Fall)					
CIS*4000	[0.50]	Applications of Computing Seminar			
		plication or electives			
0.50 credits in CIS at the 4000 level					

1.00 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 systems and computing, biological, environmental 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; 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 are accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers. 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.

#### **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. At least 3.00 credits must be complementary studies, which consist of courses in the social sciences, arts, management, engineering economics and communication. They complement the technical content of the curriculum.

All credits are selected according to the schedule of studies for the 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

The choice of program is made at the time of application. Change of program requires the approval of the director.

The available programs are:

Biological Engineering - the application of engineering to the control and management of biological processes, environments, and human factors in engineering design.

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.

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 OAC courses 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.

To qualify for the degree the student must complete the courses required for a B.Eng. program, obtaining a minimum of 23.50 credits and must achieve an overall minimum cumulative average of at least 60% and a minimum cumulative average of at least 60% in all ENGG courses.

#### **Co-operative Education**

Students studying for the B.Eng. degree may participate in a Co-operative Education program following the completion of the first 4 semesters of study. The Co-operative Education program consists of a minimum of 4 semesters of experience in industry with employers who participate in the program. Reports and assignments are graded by a faculty supervisor with assistance from the employer. Evaluations of Co-op semesters are recorded on the student's academic record. The Co-operative Education program provides an excellent opportunity for students to obtain work experience in industry directly related to their field of study. Interested students should consult their program counsellor.

Students wishing to participate in the Co-operative Education program should indicate their intention to do so by applying for admission to the Co-op program on entrance. Following the completion of semester 2, in-course applicants will be considered for admission to the Co-op program.

Successful applicants will:

- 1. have a minimum cumulative average of 70% in semesters 1 and 2  $\,$
- 2. have successfully completed all of the credits required in the schedule of studies for semesters 1 and 2
- 3. be employable in Canada (i.e. be a Canadian citizen or a permanent resident in Canada)
- 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.

Co-op Work Schedule					
	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5
Fall	1	3	5	6	work
Winter	2	4	work	7	8
Spring		work	work	work	

All candidates must complete a minimum of 4 of the preceding 5 work terms.

### 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

	0	1
CHEM*1040	[0.50]	General Chemistry I
CIS*1500	[0.50]	Introduction to Programming
ENGG*1100	[0.75]	Engineering and Design I
HIST*1250	[0.50]	Science and Society Since 1500
MATH*1200	[0.50]	Calculus I
Semester 2 - I	Regular or	Со-ор
CHEM*1050	[0.50]	General Chemistry II
ENGG*1210	[0.50]	Engineering Mechanics I
ENGG*1500	[0.50]	Engineering Analysis
MATH*1210	[0.50]	Calculus II
PHYS*1130	[0.50]	Physics with Applications
Semester 3 - I	Regular or	Со-ор
COOP*1100	[0.00]	Introduction to Co-operative Education
ENGG*2100	[0.75]	Engineering and Design II
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
MICR*1020	[0.50]	Fundamentals of Applied Microbiology

#### X. Degree Programs, Bachelor of Engineering [B.Eng.]

Semester 4 - I	Regular or	с Со-ор
BIOC*2580	[0.50]	Introductory 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
STAT*2120	[0.50]	Probability and Statistics for Engineers
Semester 5 - I		
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
0.50 restricted e	lectives	
Semester 6 R	egular / Se	emester 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 e	lectives	
Semester 7 R	egular / Se	emester 6 Co-op
ENGG*4390	[0.75]	Bio-instrumentation Design
2.75 restricted e	lectives	
Semester 8 (V	Vinter) - F	Regular or Co-op
ENGG*4110	[1.00]	Biological Engineering Design IV
ENGG*4280	[0.75]	Digital Process Control Design
1.00 restricted e	lectives	
<b>Restricted Ele</b>	ectives (se	e Program Guide for more information)
of the three	sub-lists no	nentary Studies (Students need to take 0.50 credits from each ted in the Program Guide. The remaining 0.50 credits can be mentary studies sub-list.)
	•	Design electives
		e
	-	al Engineering electives
• 1.00 credits		
• 0.50 credits	in Free elec	tives
Food Engine	eering (F	ENG)
School of Engir	neering, Co	llege of Physical and Engineering Science
Minor (Hon	ours Pro	gram)
Students must b Engineering.	e registered	in the B.Eng. degree program to apply for a Minor in Food
• •	e satisfied b	by taking the following additional courses:
BIOC*2580		
BIOC*2580 BUS*2220	[0.50]	Introductory Biochemistry Financial Accounting
ENGG*2220	[0.50] [0.50]	Biological Engineering Systems I
ENGG*2860 ENGG*3830	[0.50]	Bio-Process Engineering
FOOD*2150	[0.50]	Introduction to Nutritional and Food Science
FOOD 2130	[0.50]	Fundamentals of Applied Missobiole and

MICR\*1020 [0.50] Fundamentals of Applied Microbiology

0.75 Biological Engineering Design Course\*

One of:		
ENGG*4300	[0.75]	Food Processing Engineering Design
ENGG*4380	[0.75]	Bioreactor Design
Two of:		
FOOD*4070	[0.50]	Food Packaging
FOOD*4110	[0.50]	Meat and Poultry Processing
MCS*3010	[0.50]	Quality Management
One of:		
FOOD*3160	[0.75]	Food Processing I
FOOD*4520	[0.50]	Cereal Technology
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 sele	ct a food ap	plication project for the design course in the student's
···· ·· • · · · · · · · · · · · · · · ·		

major program

**NOTE:** Courses taken for the minors are credited to appropriate elective areas.

# 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.

#### Major (Honours Program)

	e	<b>,</b> )		
Semester 1 - R	egular or	Со-ор		
CHEM*1040	[0.50]	General Chemistry I		
CIS*1500	[0.50]	Introduction to Programming		
ENGG*1100	[0.75]	Engineering and Design I		
HIST*1250	[0.50]	Science and Society Since 1500		
MATH*1200	[0.50]	Calculus I		
Semester 2 - Re		Со-ор		
	-	-		
CIS*2500	[0.50]	Intermediate Programming Engineering Mechanics I		
ENGG*1210	[0.50] [0.50]	Engineering Analysis		
ENGG*1500 MATH*1210		Calculus II		
	[0.50]	Introductory Electricity and Magnetism		
PHYS*1010 PHYS*1130	[0.50]			
	[0.50]	Physics with Applications		
Semester 3 - R	egular or	Co-op		
CIS*2430	[0.50]	Object Oriented Programming		
COOP*1100	[0.00]	Introduction to Co-operative Education		
ENGG*2100	[0.75]	Engineering and Design II		
ENGG*2120	[0.50]	Material Science		
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 - R	egular or	Со-ор		
CIS*3110	[0.50]	Operating Systems		
ENGG*2230	[0.50]	Fluid Mechanics		
ENGG*2450	[0.50]	Electric Circuits		
MATH*2130	[0.50]	Numerical Methods		
STAT*2120	[0.50]	Probability and Statistics for Engineers		
0.50 restricted ele				
Semester 5 - Regular or Co-op				
CIS*2520	[0.50]	Data Structures		
ENGG*3260	[0.50]	Thermodynamics		
ENGG*3200	[0.50]	Signal Processing		
ENGG*3390 ENGG*3450		Electrical Devices		
ENGG*3430 ENGG*3640	[0.50] [0.50]	Microcomputer Interfacing		
		wherocomputer interfacing		
0.50 restricted electives 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 or 1.25 restri				
Semester 7 - R	egular / S	emester 6 - Co-op		
ENGG*3240	[0.50]	Engineering Economics		
ENGG*4420	[0.75]	Real-time Systems Design		
ENGG*4450	[0.50]	Large-Scale Software Architecture Engineering		
1.00 or 125 restric	cted electiv	es		
Semester 8 - Re	egular or	Со-ор		
ENGG*4120	[1.00]	Engineering Systems and Computing Design IV		
ENGG*4280	[0.75]	Digital Process Control Design		
1.00 electives	[0.75]	Digital Flocess Collubrid Design		
	tives (see	Program Guide for more information)		
		-		
	-	entary 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				
		nentary Studies sub-list.)		
<ul> <li>1.50 credits in</li> </ul>	n S&CE En	gineering electives		
<ul> <li>0.75 credits in</li> </ul>	n Engineeri	ng Design electives		
Environment	Environmental Engineering Program Regular and Co-op			
(ENVE/ENV	-	The second state of the se		

## School of Engineering, College of Physical and Engineering Science

In recent years there has been concern about the degradation of the environment. The School of Engineering has responded to this concern by developing an Environmental Engineering program. Graduates will possess design and skills to minimize and prevent the impact of human activities on water, soil and air systems. Graduates will also creatively integrate humanistic and social perspectives in their solutions.

#### 306

### Major (Honours Program)

	ii s i i ogi	(alli)		
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		
HIST*1250	[0.50]	Science and Society Since 1500		
MATH*1200	[0.50]	Calculus I		
Semester 2 - Re	gular or (	Со-ор		
CHEM*1050	[0.50]	General Chemistry II		
ENGG*1210	[0.50]	Engineering Mechanics I		
ENGG*1500	[0.50]	Engineering Analysis		
MATH*1210	[0.50]	Calculus II		
PHYS*1130	[0.50]	Physics with Applications		
Semester 3 - Re	gular or (	Со-ор		
COOP*1100	[0.00]	Introduction to Co-operative Education		
ENGG*2100	[0.75]	Engineering and Design II		
ENGG*2120	[0.50]	Material Science		
ENGG*2400	[0.50]	Engineering Systems Analysis		
MATH*2270	[0.50]	Applied Differential Equations		
0.50 restricted elec	tives			
One of:				
BIOL*1030	[0.50]	Biology I		
MICR*1020	[0.50]	Fundamentals of Applied Microbiology		
Semester 4 - Re	gular or (	Со-ор		
ENGG*2230	[0.50]	Fluid Mechanics		
ENGG*2450	[0.50]	Electric Circuits		
ENGG*2560	[0.50]	Environmental Engineering Systems		
MATH*2130	[0.50]	Numerical Methods		
STAT*2120	[0.50]	Probability and Statistics for Engineers		
One of:				
BIOL*1040	[0.50]	Biology II		
0.50 restricted electives Note: Students select 0.50 restricted electives in Semester 4 if MICR*1020 was selected				
in Semester 3.		includ citetives in Schester 4 in Where 1020 was selected		
Semester 5 - Re	gular or (	Co-op		
ENGG*3180	[0.50]	Air Quality		
ENGG*3240	[0.50]	Engineering Economics		
ENGG*3260	[0.50]	Thermodynamics		
ENGG*3590	[0.50]	Water Quality		
ENGG*3650	[0.50]	Hydrology		
0.50 restricted elec		J		
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		
ENGG*3470	[0.50]	Mass Transfer Operations		
1.00 restricted elec	tives	•		
Semester 7 Regular / Semester 6 Co-op				
ENGG*3670	[0.50]	Soil Mechanics		
ENGG*4330	[0.75]	Air Pollution Control		
ENGG*4340	[0.50]	Solid and Hazardous Waste Management		
ENGG*4370	[0.75]	Urban Water Systems Design		
0.50 restricted elec				
Semester 8 - Regular or Co-op				

Semester of - Regular of Co-op			
ENGG*4130	[1.00]	Environmental Engineering Design IV	
ENGG*4260	[0.75]	Water and Wastewater Treatment Design	
GEOL*3060	[0.50]	Groundwater	
0.50 restricted electives			

#### **Restricted Electives**

Environmental engineering students must complete the following restricted electives (see Program Guide for more information). A maximum of three 1000 level electives is allowed. Restricted electives must include:

- 2.00 credits in Complementary Studies (Students need to take 0.50 credits from each of the three sub-lists noted in the Program Guide. The remaining 0.50 credits can be taken from any Complementary Studies sub-list.)
- 1.50 credits in Environmental Engineering electives (if BIOL\*1030 is selected in Semester 3, then BIOL\*1040 must be selected from the list in the Program Guide).

#### Minor (Honours Program)

Students must be registered in the B.Eng. degree program to apply for a Minor in Environmental Engineering.

The minor can be satisfied by taking the following additional courses:			
BIOC*2580	[0.50]	Introductory Biochemistry	
CHEM*3360	[0.50]	Environmental Chemistry and Toxicology	
2007-2008 University of Guelph Undergraduate Calendar			

ENGG*3180	[0.50]	Air Quality
ENGG*3590	[0.50]	Water Quality
ENGG*4260	[0.75]	Water and Wastewater Treatment Design
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
MICR*1020	[0.50]	Fundamentals of Applied Microbiology
MICR*4180	[0.50]	Microbial Processes in Environmental Management
One of:		
ENGG*2560	[0.50]	Environmental Engineering Systems
ENGG*2660	[0.50]	Biological Engineering Systems I
One of:		
ENGG*3470	[0.50]	Mass Transfer Operations
ENGG*4330	[0.75]	Air Pollution Control
ENGG*4340	[0.50]	Solid and Hazardous Waste Management
Students must cale		and and a lighting provide the design accurate the

Students must select an environmental application project for the design course in the student's major program.

### Water Resources Engineering Program Regular and Co-op (WRE/WRE:C)

#### School of Engineering, College of Physical and Engineering Science

Water resources engineering focuses on the use and management of land and water resources in rural and urban watersheds. The hydrologic and hydraulic behaviour of watershed flow systems is combined with engineering science and. 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 - Re	egular or	Со-ор	
CHEM*1040	[0.50]	General Chemistry I	
CIS*1500	[0.50]	Introduction to Programming	
ENGG*1100	[0.75]	Engineering and Design I	
HIST*1250	[0.50]	Science and Society Since 1500	
MATH*1200	[0.50]	Calculus I	
Semester 2 - Re	egular or	Со-ор	
CHEM*1050	[0.50]	General Chemistry II	
ENGG*1210	[0.50]	Engineering Mechanics I	
ENGG*1500	[0.50]	Engineering Analysis	
MATH*1210	[0.50]	Calculus II	
PHYS*1130	[0.50]	Physics with Applications	
Semester 3 - Re	egular or	Со-ор	
COOP*1100	[0.00]	Introduction to Co-operative Education	
ENGG*2100	[0.75]	Engineering and Design II	
ENGG*2120	[0.50]	Material Science	
ENGG*2400	[0.50]	Engineering Systems Analysis	
GEOG*2000	[0.50]	Geomorphology	
MATH*2270	[0.50]	Applied Differential Equations	
MICR*1020	[0.50]	Fundamentals of Applied Microbiology	
Semester 4 - Re	egular or	Со-ор	
ENGG*2230	[0.50]	Fluid Mechanics	
ENGG*2450	[0.50]	Electric Circuits	
ENGG*2550	[0.50]	Water Management	
ENGG*2560	[0.50]	Environmental Engineering Systems	
MATH*2130	[0.50]	Numerical Methods	
STAT*2120	[0.50]	Probability and Statistics for Engineers	
Semester 5 - Regular or Co-op			
ENGG*3240	[0.50]	Engineering Economics	
ENGG*3260	[0.50]	Thermodynamics	
ENGG*3590	[0.50]	Water Quality	
ENGG*3650	[0.50]	Hydrology	
ENGG*3670	[0.50]	Soil Mechanics	
0.50 restricted ele			
Semester 6 - Regular / Semester 7 - Co-op			
ENGG*3100	[0.75]	Engineering and Design III	
ENGG*3430	[0.50]	Heat and Mass Transfer	
GEOL*3060	[0.50]	Groundwater	
1.50 restricted ele			
Semester 7 - Re	egular / S	emester 6 - Co-op	
ENGG*3340	[0.50]	Geographic Information Systems in Environmental Engineering	
ENGG*4250	[0.75]	Watershed Systems Design	
ENGG*4250 ENGG*4360	[0.75]	Soil-Water Conservation Systems Design	
ENGG*4300	[0.75]	Urban Water Systems Design	
21100 10/0	[0.75]	creat which by stellis Design	

#### 0.50 restricted electives

#### Semester 8 (Winter) Regular or Co-op

ENGG\*4150 [1.00] Water Resources Engineering Design IV 1.50 restricted electives

#### **Restricted Electives (see Program Guide for more information)**

- 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 electives
- 0.50 credits in Water Resources electives

## 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 recongized 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 associates 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, 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)

•	0	
Semester 1		
BIOL*1030	[0.50]	Biology I
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*1210	[0.50]	Graphic Communication
LARC*2020	[0.75]	Design Studio
LARC*2330	[0.25]	Planting Design I
LARC*2420	[0.50]	Materials and Techniques
PHIL*2070	[0.50]	Philosophy of the Environment
Semester 3		
HORT*3260	[0.50]	Woody Plants
LARC*2100	[0.50]	Landscape Analysis
LARC*2340	[0.25]	Planting Design II
LARC*2410	[0.50]	Site Engineering
LARC*3040	[0.75]	Site Planning and Design Studio
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 Scienc	e 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

ENVS*3320	[0.50]	Principles of Landscape Ecology **
LARC*3060	[0.75]	Landscape Architecture II
LARC*3440	[0.75]	Landscape Construction II
LARC*4610	[0.50]	Professional Practice
0.50 1	11	

0.50 electives (in odd years)

\*\* is offered in even-numbered years; to alternate with electives in odd years

### Semester 6

0.50 electives

0.50 electives (if needed)

Semester 0		
Choose one of th	e following	three options:
Option 1		
2.50 electives		
Option 2		
LARC*4620	[1.00]	Internship in Landscape Architecture
1.50 electives		
Option 3		
Exchange Progra	um (2.50 cre	dits)
Semester 7		
ENVS*3320	[0.50]	Principles of Landscape Ecology **
LARC*3070	[1.00]	Landscape Architecture III
LARC*4101	[0.50]	Design Thesis
0.50 electives (in	odd years)	
** is offered in e	ven-numbe	red years; to alternate with electives in odd years
Semester 8		
LARC*4090	[0.50]	Seminar
LARC*4102	[1.00]	Design Thesis

## **Bachelor of Science (B.Sc.)**

The University of Guelph offers general and honours programs leading to the B.Sc. degree. The general program consists of a minimum of 15.00 credits (usually 30 semester courses) involving normally 6 semesters of study. The requirements for the honours program is a minimum of 20.00 credits (usually 40 semester courses) which may be obtained over 8 semesters of study. Some majors may require more than 20.00 credits.

#### The Three Semester System

Most of the B.Sc. programs operate on the three semester system. In this system each of the Fall, Winter and Summer semesters is of 12 weeks duration. Two semesters are equivalent to 1 academic year at a university on the traditional system. In the three semester system, students may vary their rate of progress towards graduation. However, since many science courses must be taken in a certain sequence and not all courses are offered each semester, most science students are required to proceed from semester to semester in restricted patterns. Furthermore, the advanced courses of the honours programs are offered only in the regular fall and winter semesters.

Additional information may be obtained from Admissions Services, Office of Registrarial Services. The three-semester system and the pass-by-course method of advancement allow considerable flexibility of program arrangement. In addition, a variety of program contents is available which the student may modify to meet individual requirements.

#### **Transfer from One B.Sc. Program to Another**

On entrance to the B.Sc. program, the student may elect to follow an intended area of specialization or to postpone this decision until a later semester. The choice of a particular program of study may be most effectively made at the end of Semester 3 or 4. Judicious selection of courses in each and every semester will allow the easiest transfer between programs without incurring the need for additional semesters of study. The program counsellor of the particular college from which it is anticipated that the majority of science courses will be taken should be consulted for advice.

### **Program Information**

#### **General Program Requirements**

The general B.Sc. degree requires the successful completion of 15.00 required credits. Normally 2.50 credits (usually 5 courses) are taken in each semester so that the degree may be completed in 6 semesters. The general science program is designed to give a broad general training in biological science, chemistry, physics and mathematical science.

#### **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)

#### **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 or OAC 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

Not more than one of the above will be allowed for credit toward the B.Sc. 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

No B.Sc. program may include more than 7.00 credits at the 1000 level.

#### 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 program.

#### 7. Continuation of Study

Students are advised to consult the regulations for continuation of study outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures.

#### **Doctor of Veterinary Medicine**

Students in the B.Sc. program who intend to apply for admission to the Doctor of Veterinary Medicine program should register for the Major Biological Science or Major Physical Science program, or the major of their choice. Prospective candidates for the D.V.M. program should consult the admission requirements for the program. Students may obtain assistance in selecting a program that will meet the requirements for the Doctor of Veterinary Program and for continuation in biological or physical science programs by consulting the appropriate Program Counsellor.

### **General Program (BSCG)**

#### **Continuation of Study**

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures.

#### **Conditions for Graduation**

In order to qualify for graduation from the general program the student is required to attain a passing grade in a minimum of 15.00 required credits as outlined in the Total Course Requirements for all students in the General Science Program.

#### **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 or OAC 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

Semiester 1		
BIOL*1030	[0.50]	Biology I
CHEM*1040	[0.50]	General Chemistry I

MATH\*1080[0.50]Elements of Calculus IPHYS\*1070[0.50]Introductory Physics for Life Sciences0.50 Arts or Social Science electives

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2 BIOL\*1040 [0.50] Biology II CHEM\*1050 General Chemistry II [0.50] PHYS\*1080 [0.50] Physics for Life Sciences One of: CIS\*1000 Introduction to Computer Applications [0.50]CIS\*1200 [0.50] Introduction to Computing CIS\*1500 [0.50] Introduction to Programming STAT\*2040 [0.50] Statistics I Elements of Calculus II MATH\*2080 [0.50]

0.50 Arts or Social Science electives

### 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

 BIOL\*1030
 [0.50]
 Biology I

 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
 Statute of the stat

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2

BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
MATH*1210	[0.50]	Calculus II	
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	
0.50 Arts or Social Science electives			

### Semester 3 to 6

A minimum of 2.50 credits in each semester, including 2.00 acceptable science courses per semester. For details consult 'Total Course Requirements'.

### Honours Programs (BSCH)

### **Honours Program Majors**

The following honours majors are available:

### **Biological Sciences:**

20.00 credits - Animal Biology 20.25 credits - Biochemistry 20.00 credits - Biological Science 20.00 credits - Bio-Medical Science 20.00 credits - Human Kinetics 20.00 credits - Marine and Freshwater Biology 20.00 credits - Microbiology 20.00 credits - Molecular Biology & Genetics 20.00 credits - Nutritional and Nutraceutical Sciences 20.00 credits - Plant Biology 20.00 credits - Plant Biotechnology 20.00 credits - Wild Life Biology 20.00 credits - Zoology **Physical Sciences:** 20.00 credits - Biological Chemistry 21.25 credits - Biophysics 21.75 credits - Chemical Physics 20.25 credits - Chemistry 20.00 credits - Physical Science 21.25 credits - Physics 21.25 credits - Theoretical Physics **Environmental Sciences:** 20.25 credits - Biomedical Toxicology 20.00 credits - Earth Surface Science\* 20.00 credits - Ecology\*

## Computing Science, Mathematics, Statistics

20.00 credits - Computing & Information Science 20.00 credits - Mathematics 20.00 credits - Statistics Additional Disciplines:

20.00 credits - Food Science 20.00 credits - Psychology

### **Co-operative Educational Programs:**

- 20.00 credits Applied Mathematics and Statistics
- 20.25 credits Biochemistry
- 20.25 credits Biomedical Toxicology 21.25 credits - Biophysics

21.25 credits - Chemical Physics

20.25 credits - Chemistry

20.00 credits - Computing & Information Science

20.00 credits - Environmental Toxicology

20.00 credits - Food Science

20.00 credits - Microbiology

### 21.25 credits - Physics

### **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
5.00 credits - Biochemistry
5.00 credits - Biotechnology
5.00 credits - Functional Foods and Nutraceuticals
5.25 credits - Microbiology
5.00 credits - Molecular Biology and Genetics
5.00 credits - Neuroscience
5.00 credits - Nutritional Sciences
5.00 credits - Plant Biology
5.00 credits - Plant Biotechnology
5.00 credits - Zoology
Physical Sciences:
5.00 credits - Chemistry

#### 5.00 credits - Chemistry 5.00 credits - Physics

### Environmental Sciences:

5.00 credits - Ecology

5.00 credits - Forest Science

5.00 credits - Geographic Info. Sys. (G.I.S.) and Environmental Analysis

#### 5.00 credits - Geology Mathematical Sciences:

- sciences.
- 5.25 credits Computing & Information Science 5.00 credits - Mathematical Science
- 5.00 credits Mathematics

5.00 credits - Statistics

#### **Additional Disciplines:**

5.00 credits - Business Administration 5.00 credits - Food Science 5.00 credits - Psychology

### **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.

**Note:** A student registered in an honours program who has successfully completed all required courses and the specified total number of credits for the program but does not have a cumulative average of 60%, or higher, may apply to graduate from the general program.

### **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

20.00 credits - Environmental Biology\*

\*also see B.SC.(ENV.)

20.00 credits - Environmental Toxicology

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*1030	[0.50]	Biology I		
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 admitted deficient in one OAC/4U course in Biology, Chemistry or				
Physics must take the equivalent introductory course in first semester. The first-year				
science core in that subject should be completed by Semester 3.				

#### Semester 2

Semester 2			
BIOL*1040	[0.50]	Biology II	
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 Soci	al Science el	ectives	
Semester 3			
AGR*2350	[0.50]	Animal Production Systems and Industry	
BIOC*2580	[0.50]	Introductory Biochemistry	
BIOL*2210	[0.50]	Introductory Cell Biology	
MBG*2000	[0.50]	Introductory Genetics	
0.50 Arts or Soci	al Science el	ectives	
Semester 4			
ANSC*2340	[0.50]	Structure of Farm Animals	
MBG*2020	[0.50]	Introductory Molecular Biology	
NUTR*3210	[0.50]	Fundamentals of Nutrition	
STAT*2040	[0.50]	Statistics I	
0.50 Arts or Soci	al Science el	ectives	
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*3300	[0.50]	Animal Reproduction	
MBG*3060	[0.50]	Quantitative Genetics	
1.00 electives or	restricted ele	ectives	
Semester 7			
2.50 electives or	restricted ele	ectives	
Semester 8			
2.50 electives or	restricted ele	ectives	

#### **Restricted Electives**

Students must complete 2.00 credits from Arts or Social Science courses.

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

	0	
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 Nutriti	on [0.50] Requ	ired
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*4550	[0.50]	Horse Nutrition
ANSC*4560	[0.50]	Pet Nutrition
Animal Physiolog	gy & Behav	iour [0.50] Required
ANSC*4090	[0.50]	Applied Animal Behaviour
ANSC*4100	[0.50]	Applied Environmental Physiology and Animal Housing
ANSC*4130	[0.50]	Reproductive Management and Technology
ANSC*4350	[0.50]	Experiments in Animal Biology
ANSC*4470	[0.50]	Animal Metabolism
ANSC*4490	[0.50]	Applied Endocrinology
An additional 3.0	0 credits mu	ist be obtained by selecting courses from the above lists and
from the followin	g:	
ANSC*2360	[0.50]	Challenges and Opportunities in Animal Production
ANSC*3050	[0.50]	Aquaculture: Advanced Issues
ANSC*4610	[0.50]	Critical Analysis in Animal Science
ANSC*4650	[0.50]	Immune Mechanisms of Animals
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
MICR*3230	[0.50]	Immunology I
MICR*4230	[0.50]	Immunology II
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 total of 20.00 credits is required to complete this program which includes 4.50 credits in Mathematics, 2.50 credits in Statistics, 2.50 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

BIOL*1030	[0.50]	Biology I
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
Students who are	admitted d	eficient in one $OAC/4U$ course in Bi

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2 - Winter

BIOL*1040	[0.50]	Biology II
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
PHYS*1010	[0.50]	Introductory Electricity and Magnetism

## Summer Semester

No study semester or work term. Semester 3 - Fall

MATH*2000	[0.50]	Set Theory			
MATH*2160	[0.50]	Linear Algebra I			
MATH*2200	[0.50]	Advanced Calculus I			
STAT*2040	[0.50]	Statistics I			
0.50 Arts or Social Science electives					

#### Winter Semester

COOP\*1000 [0.0] Co-op Work Term I Note: Suggested course sequences are available in the departmental brochure. Please consult with the departmental advisor.

#### Semester 4 - Summer

Semester .	Summer	
MATH*2130	[0.50]	Numerical Methods
MATH*2170	[0.50]	Differential Equations I
STAT*2050	[0.50]	Statistics II
0.50 Arts or Se	ocial Science el	ectives
0.50 electives		
Fall Semeste	er	
COOP*2000	[0.00]	Co-op Work Term II

#### Semester 5 - Winter

1.00 credits in Mathematics or Statistics at the 3000 level or above 1.50 electives

1100 010001100				
Summer Semester				
COOP*3000	[0.00]	Co-op Work Term III		
Semester 6 - Fa	11			
STAT*3100	[0.50]	Introductory Mathematical Statistics I		
STAT*3240	[0.50]	Applied Regression Analysis		
At least 1.00 credi	ts 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 II1.50 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 2.50 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

#### 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 at least 20.25 credits as indicated below:

#### Semester 1

BIOL*1030	[0.50]	Biology I
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 Soci	al Science	electives

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2

bemester 2		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
CIS*1500	[0.50]	Introduction to Programming
MATH*1210	[0.50]	Calculus II
PHYS*1010	[0.50]	Introductory Electricity and Magnetism
Semester 3		
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2060	[0.50]	Structure and Bonding
CHEM*2480	[0.50]	Analytical Chemistry I
CHEM*2880	[0.50]	Physical Chemistry
MBG*2000	[0.50]	Introductory Genetics
Semester 4		
BIOC*3560	[0.50]	Structure and Function in Biochemistry
BIOL*2210	[0.50]	Introductory Cell Biology
CHEM*2700	[0.50]	Organic Chemistry I
MBG*2020	[0.50]	Introductory Molecular Biology
0.50 electives		
Semester 5		
BIOC*3570	[0.50]	Analytical Biochemistry
CHEM*3750	[0.50]	Organic Chemistry II
MICR*2030	[0.50]	Microbial Growth
STAT*2040	[0.50]	Statistics I
0.50 electives		
Semester 6		
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
PHYS*2030	[0.50]	Biophysics of Excitable Cells
1.50 electives		
Semester 7		
BIOC*4520	[0.50]	Metabolic Processes
MCB*4080	[0.50]	Applied Microbiology and Biochemistry

MICR*3230 One of:	[0.50]	Immunology I
MBG*3080	[0.50]	<b>Bacterial Genetics</b>
MBG*4080	[0.50]	Molecular Genetics
0.50 electives		
Semester 8		
BIOC*4540	[0.50]	Enzymology
BIOC*4580	[0.50]	Membrane Biochemistry
1.50 electives		

### Electives

Selection of electives for the program is subject to the following rules:

1. At least 1.00 credits must be in the Arts and Social Sciences.

2. One of: MCB\*4050, TOX\*4590.

3. One of: BIOM\*3100, MICR\*3330, MICR\*4230, PBIO\*3110, PBIO\*4750.

#### 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	[0.50]	Analytical Biochemistry	
BIOC*4540	[0.50]	Enzymology	
CHEM*2480	[0.50]	Analytical Chemistry I	
CHEM*2700	[0.50]	Organic Chemistry I	
One of:			
MBG*2020	[0.50]	Introductory Molecular Biology	
MICR*2030	[0.50]	Microbial Growth	
In addition, at least	st 2.00 credi	ts must be chosen from the following courses, with at least	
1.00 credits from the first four courses listed:			
BIOC*4520	[0.50]	Metabolic Processes	
BIOC*4580	[0.50]	Membrane Biochemistry	
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I	
MCB*4080	[0.50]	Applied Microbiology and Biochemistry	
MICD*2220	[0 50]	Immunology I	

#### MICR\*3230 [0.50] Immunology I TOX\*4590 [0.50] Biochemical Toxicology

### Biochemistry (Co-op) (BIOC:C)

#### Department of Molecular and Cellular Biology, College of Biological Science

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.

#### Stream A Semester 1 - Fall

BIOC\*3570

[0.50]

Semester 1 - r	all	
BIOL*1030	[0.50]	Biology I
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 Soc	ial Science	electives
Semester 2 - V	Vinter	
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
CIS*1500	[0.50]	Introduction to Programming
COOP*1100	[0.00]	Introduction to Co-operative Education
MATH*1210	[0.50]	Calculus II
PHYS*1010	[0.50]	Introductory Electricity and Magnetism
Summer Sem	ester	
No academic ser	nester or wo	ork term
Semester 3 - H	all	
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2060	[0.50]	Structure and Bonding
CHEM*2480	[0.50]	Analytical Chemistry I
CHEM*2880	[0.50]	Physical Chemistry
MBG*2000	[0.50]	Introductory Genetics
Winter Semes	ster	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - S	Summer	

Analytical Biochemistry

2007-2008 University of Guelph Undergraduate Calendar

	,				
CHEM*2700	[0.50]	Organic Chemistry I	BIOL*2210	[0.50]	Introductory Cell Biology
MBG*2020	[0.50]	Introductory Molecular Biology	MICR*2030	[0.50]	Microbial Growth
STAT*2040 0.50 electives	[0.50]	Statistics I	PHYS*2030 0.50 electives	[0.50]	Biophysics of Excitable Cells
Semester 5 - F	all		Summer Seme	ester	
BIOC*3560	[0.50]	Structure and Function in Biochemistry	COOP*3000	[0.00]	Co-op Work Term III
BIOL*2210	[0.50]	Introductory Cell Biology	Semester 6 - F		
CHEM*3750	[0.50]	Organic Chemistry II	CHEM*3750	[0.50]	Organic Chemistry II
MICR*2030	[0.50]	Microbial Growth	MICR*3230	[0.50]	Immunology I
0.50 electives			One of:	[0.50]	initiatiology I
Winter Semes	ster		MBG*3080	[0.50]	Bacterial Genetics
COOP*2000	[0.00]	Co-op Work Term II	MBG*4080	[0.50]	Molecular Genetics
Summer Seme	ester		1.00 electives		
COOP*3000	[0.00]	Co-op Work Term III	Semester 7 - V	Vinter	
Semester 6 - F	Fall		BIOC*4540	[0.50]	Enzymology
MICR*3230	[0.50]	Immunology I	BIOC*4580	[0.50]	Membrane Biochemistry
One of:			MBG*3350 1.00 electives	[0.75]	Laboratory Methods in Molecular Biology I
MBG*3080	[0.50]	Bacterial Genetics	Summer Seme	octor	
MBG*4080 1.50 electives	[0.50]	Molecular Genetics	COOP*4000		Co. on Work Torm IV
Semester 7 - V	Vintor		Semester 8 - F	[00.0] [[e3	Co-op Work Term IV
BIOC*4540	[0.50]	Enzymology	BIOC*4520	[0.50]	Metabolic Processes
BIOC*4540 BIOC*4580	[0.50]	Membrane Biochemistry	MCB*4080	[0.50]	Applied Microbiology and Biochemistry
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I	1.50 electives	[0.50]	Applied Microbiology and Diochemistry
PHYS*2030	[0.50]	Biophysics of Excitable Cells	Electives		
0.50 electives				tives for the	program is subject to the following rules:
Summer Seme	ester				t be in the Arts and Social Sciences.
COOP*4000	[0.00]	Co-op Work Term IV	2. One of: MC		
Semester 8 - F	Fall			· · · · ·	ICR*3330, MICR*4230, PBIO*3110, PBIO*4750.
BIOC*4520	[0.50]	Metabolic Processes			
MCB*4080	[0.50]	Applied Microbiology and Biochemistry	<b>Biological C</b>	ť	
1.50 electives			Department of	Chemistry,	College of Physical and Engineering Science
Electives			Major (Honours Program)		
Selection of elec	tives for the	program is subject to the following rules:	Students may ent	ter this major	in Semester 1 or any semester thereafter. A student wishin
1. At least 1.00	) credits mus	t be in the Arts and Social Sciences.			consult the Faculty Advisor. This major will require the
2. One of: MCB*4050, TOX*4590.			completion of 20.00 credits as indicated below:		
3. One of: BIO	M*3100, MI	ICR*3330, MICR*4230, PBIO*3110, PBIO*4750.	Semester 1		
Stream B			BIOL*1030	[0.50]	Biology I
Semester 1 - F	all		CHEM*1040	[0.50]	General Chemistry I
BIOL*1030	[0.50]	Biology I	MATH*1200	[0.50]	Calculus I
CHEM*1040	[0.50]	General Chemistry I	PHYS*1000	[0.50]	An Introduction to Mechanics
MATH*1200	[0.50]	Calculus I	0.50 Arts or Soci Students who ar		lectives leficient in one OAC/4U course in Biology, Chemistry of
PHYS*1000	[0.50]	An Introduction to Mechanics			alent introductory course in first semester. The first-ye
0.50 Arts or Soci		lectives	•	1	nould be completed by Semester 3.
Semester 2 - V	Vinter		Semester 2		1
BIOL*1040	[0.50]	Biology II	BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II	CHEM*1050	[0.50]	General Chemistry II
CIS*1500	[0.50]	Introduction to Programming		[0.50]	

CHEM*1050	[0.50]	General Chemistry II	
CIS*1500	[0.50]	Introduction to Programming	
COOP*1100	[0.00]	Introduction to Co-operative Education	
MATH*1210	[0.50]	Calculus II	
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	
Summer Semester			

No academic semester or work term

#### Semester 3 - Fall

Semester 5 - Fa	11	
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2060	[0.50]	Structure and Bonding
CHEM*2480	[0.50]	Analytical Chemistry I
CHEM*2880	[0.50]	Physical Chemistry
MBG*2000	[0.50]	Introductory Genetics
Winter Semeste	er	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - Su	mmer	
BIOC*3570	[0.50]	Analytical Biochemistry
CHEM*2700	[0.50]	Organic Chemistry I
MBG*2020	[0.50]	Introductory Molecular Biology
STAT*2040	[0.50]	Statistics I
0.50 elective		
Fall Semester		
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 - Wi	inter	
BIOC*3560	[0.50]	Structure and Function in Biochemistry

MATH\*1210 [0.50] Calculus II PHYS\*1010 [0.50] Introductory Electricity and Magnetism 0.50 Arts or Social Science electives Semester 3 BIOC\*2580 [0.50] Introductory Biochemistry CHEM\*2060 [0.50] Structure and Bonding CHEM\*2400 [0.75] Analytical Chemistry I MBG\*2000 [0.50] Introductory Genetics STAT\*2040 [0.50] Statistics I Semester 4 Structure and Spectroscopy CHEM\*2070 [0.50] CHEM\*2700 [0.50] Organic Chemistry I CHEM\*3430 [0.50] Analytical Chemistry II: Instrumental Analysis MBG\*2020 [0.50] Introductory Molecular Biology 0.50 electives or restricted electives \* Semester 5 BIOC\*3570 [0.50] Analytical Biochemistry CHEM\*2880 [0.50] Physical Chemistry CHEM\*3640 [0.50] Chemistry of the Elements I CHEM\*3750 [0.50] Organic Chemistry II 0.50 electives or restricted electives \* Semester 6 BIOC\*3560 [0.50] Structure and Function in Biochemistry CHEM\*3650 [0.50] Chemistry of the Elements II

Last Revision: January 28, 2008

CHEM*3760	[0.50]	Organic Chemistry III	One of:
One of: ** CHEM*4630	[0.50]	Bioinorganic Chemistry	PHYS*1000 PHYS*1070
CHEM*4720	[0.50]	Organic Reactivity	0.50 Arts or So
0.50 electives or r	restricted ele	ectives *	Students who a
Semester 7			Physics must t
CHEM*4730	[0.50]	Synthetic Organic Chemistry	science core in
CHEM*4740	[0.50]	Topics in Bio-Organic Chemistry	Semester 2
	Biochemistry	or Molecular Biology and Genetics courses at the 3000 or	BIOL*1040
4000 level ***			CHEM*1050
0.75 electives or r	restricted ele	ectives *	0.50 Mathemat
Semester 8			CIS*1000
One of:			CIS*1200
CHEM*4630	[0.50]	Bioinorganic Chemistry	MATH*121
CHEM*4720	[0.50]	Organic Reactivity	MATH*208
1.00 Chemistry, E 4000 level ***	Biochemistry	y or Molecular Biology and Genetics course at the 3000 or	One of: PHYS*1010
1.00 electives or r	estricted ele	ectives *	PHYS*1080
Selection of restr	ricted electi	ves are subject to the following:	0.50 Arts or So
1. * BIOL*2210	) must be tal	ken.	Semester 3
2. * MICR*202	0 or MICR*	2030 must be taken.	MBG*2000
3. ** Note: CHI and both cour		d CHEM*4720 are offered in alternating winter semesters ired.	0.50 Ecology fi BIOL*2060
	its are to be	selected from the following list of allowable courses at the	BIOL*3110 BOT*2050
BIOC*4520		Metabolic Processes	One of:
BIOC*4520 BIOC*4540	[0.50] [0.50]	Enzymology	BIOC*2580
BIOC*4580	[0.50]	Membrane Biochemistry	BIOL*2210
CHEM*3440	[0.50]	Analytical Chemistry III: Analytical Instrumentation	1.00 electives
CHEM*4900	[0.75]	Chemistry Research Project I	Semester 4
CHEM*4910	[0.75]	Chemistry Research Project II	STAT*2040
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I	One of:
MBG*4080	[0.50]	Molecular Genetics	BIOC*2580
MCB*4050	[0.50]	Protein and Nucleic Acid Structure	BIOL*2210
MCB*4080	[0.50]	Applied Microbiology and Biochemistry	1.50 electives
TOX*4590	[0.50]	Biochemical Toxicology	Semester 5

#### **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:

- 1. First year Core 4.00 credits
  - 1.00 Biology BIOL\*1030 BIOL\*1040
  - 1.00 Chemistry CHEM\*1040 CHEM\*1050
  - 1.00 Physics (PHYS\*1070, PHYS\*1080) or (PHYS\*1000, PHYS\*1010)
  - 0.50 Mathematics MATH\*1080 or MATH\*1200
- 0.50 Mathematical Science CIS\*1000, CIS\*1200, MATH\*1210, MATH\*2080,
- 2. Subject Area Core 8.00 credits
  - 0.50 BIOL\*2210
  - 0.50 BIOC\*2580
  - 0.50 MBG\*2000
  - 0.50 STAT\*2040
  - 0.50 from one of BIOL\*2060, BIOL\*3110, BOT\*2050

0.50 - minimum from one of BIOM\*3100, BOT\*3310, HK\*3940, ZOO\*3200

5.00 - biological science courses of which 4.00 must be at the 3000 or 4000 level\*

- 3. Science Electives 4.00 credits
  - 1.00 biological science courses

3.00 - from science offerings on the list of Approved Courses of which at least 2.00 must be at the 3000 or 4000 level\*

4. Arts and Social Science Electives - 2.00 credits

- 2.00 arts or social science courses from the list of Approved Courses
- 5. Free Electives 2.00 credits

\*the program must include at total of 6.00 science credits at the 3000 or 4000 level, 2.00 must be at the 4000 level

### **Recommended Schedule of Studies**

#### Semester 1

BIOL*1030 CHEM*1040 One of:	[0.50] [0.50]	Biology I General Chemistry I
MATH*1080	[0.50]	Elements of Calculus I
MATH*1200	[0.50]	Calculus I

ne of:			
PHYS*1000	[0.50]	An Introduction to Mechanics	
PHYS*1070	[0.50]	Introductory Physics for Life Sciences	
50 Arts or Socia	l Science el	ectives	
udents who are	admitted de	eficient in one OAC/4U course in Biology, Chemistry or	
nysics must take	e the equiva	lent introductory course in first semester. The first-year	
ience core in that	at subject sh	ould be completed by Semester 3.	
emester 2			
IOL*1040	[0.50]	Biology II	
HEM*1050	[0.50]	General Chemistry II	
50 Mathematica	l science fro		
CIS*1000	[0.50]	Introduction to Computer Applications	
CIS*1200	[0.50]	Introduction to Computing	
MATH*1210	[0.50]	Calculus II	
MATH*2080	[0.50]	Elements of Calculus II	
ne of:			
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	
PHYS*1080	[0.50]	Physics for Life Sciences	
50 Arts or Socia	1 Science el	ectives	
emester 3			
BG*2000	[0.50]	Introductory Genetics	
50 Ecology from	n:		
BIOL*2060	[0.50]	Ecology	
BIOL*3110	[0.50]	Population Ecology	
BOT*2050	[0.50]	Plant Ecology	
ne of:			
BIOC*2580	[0.50]	Introductory Biochemistry	
BIOL*2210	[0.50]	Introductory Cell Biology	

BOT\*3310 [0.50] Plant Growth and Development HK\*3940 [1.25] Human Physiology

[0.50]

[0.50]

[0.50]

[0.50]

ZOO\*3200 Comparative Animal Physiology I [0.50] 2.00 electives (1.25 electives if HK\*3940 is selected)

Statistics I

#### Semester 6 to 8

BIOM\*3100

2.50 in each semester including 2.00 science credits per semester

Note: 6.00 in biological science must be taken in Semesters 6 through 8 of which 4.00 must be at the 3000 or 4000 level. In the total 6.00 of 3000 and 4000 level science courses, 2.00 must be at the 4000 level.

Introductory Biochemistry

Introductory Cell Biology

Mammalian Physiology I

#### **Biology (BIOL)**

**College of Biological Science** 

One course in Physiology from:

#### Minor (Honours Program)

A minor in Biology shall include the following courses:

BIOL*1030	[0.50]	Biology I
BIOL*1040	[0.50]	Biology II
BIOL*2060	[0.50]	Ecology
BIOL*2210	[0.50]	Introductory Cell Biology
MBG*2000	[0.50]	Introductory Genetics

and 2.50 of which 1.50 must be at the 3000 or 4000 level, from courses offered by the Human Health and Nutritional Sciences, Integrative Biology and Molecular and Cellular Biology . This minor is intended for students registered in majors in B.Sc. Physical Sciences and the B.A. degree programs.

#### **Bio-Medical Science (BIOM)**

#### Department of Biomedical 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 Biomedical 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 from this B.Sc. program 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.

#### X. Degree Programs, Bachelor of Science (B.Sc.)

Students who are admitted into the Biomedical Science major from high school must meet additional requirements to continue in the major beyond first year. Continuation is based on the cumulative average in the first two full-time semesters (5.00 credits), including the seven core courses as prescribed by the Schedule of Studies (see below). Students with a minimum 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 Biomedical Science major from high school and wish to declare the specialization at the end of the first year must apply directly to the Department of Biomedical 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 Biomedical 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.

Students who are lacking in the fundamentals of word processing, spread sheet use and data management should arrange to complete CIS\*1000 as early in their program as possible.

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.

#### **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*1030	[0.50]	Biology I	
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 admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2

Semester 2			Phy
BIOL*1040	[0.50]	Biology II	scie
CHEM*1050	[0.50]	General Chemistry II	
PHYS*1080	[0.50]	Physics for Life Sciences	BIC
1.00 electives or 1	restricted ele	ectives	CHI
Semester 3 (see	e admissio	n statement above)	PH
BIOC*2580	[0.50]	Introductory Biochemistry	STA
BIOL*2210	[0.50]	Introductory Cell Biology	0.50
MBG*2000	[0.50]	Introductory Genetics	Sen
STAT*2040	[0.50]	Statistics I	BIC
0.50 electives or i	restricted ele	ectives	CH
Semester 4			MB
BIOC*3560	[0.50]	Structure and Function in Biochemistry	TO
MBG*2020	0.50	Introductory Molecular Biology	0.50
NUTR*3210	[0.50]	Fundamentals of Nutrition	Sen
1.00 electives or i	restricted ele	ectives	BIC
Semester 5			CHI
POPM*3240	[0.50]	Epidemiology	MB
One of:	[0.00]	-F6)	NU
BIOM*3100	[0.50]	Mammalian Physiology I	STA
HK*3940	[1.25]	Human Physiology	Ser
If BIOM*3100	is selected, t	hen BIOM*3110 and BIOM*3120 must be taken in Semester	BIC
6.			BIC
Electives or restri	icted elective	es (to a maximum of 2.75 total credits).	MB
Semester 6			TO
BIOM*3040	[0.50]	Medical Embryology	0.25
BIOM*3090	[0.50]	Principles of Pharmacology	Ser
Electives or restri		es to a maximum of 2.75 total credits.	BIC
			BIC

Note: As part of the electives or restricted electives students must select BIOM\*3110 and BIOM\*3120 in Semester 6 if BIOM\*3100 was selected in Semester 5. **Semester 7** 

### One of:

BIOM\*3030 [0.75] Biomedical Histology

ZOO\*3000 [0.50] Comparative Histology

Electives or restricted electives to a maximum of 2.75 total credits.

#### Semester 8

PATH\*3610 [0.50] Principles of Disease

#### 2.00 electives or restricted electives\* **Restricted Electives**

1. 1 anatomy course from BIOM\*3010, HK\*3401/2, ZOO\*2090 must be completed.

### 2 One of

2. One of.		
MICR*3230	[0.50]	Immunology I
NU 1TD * 4000	10 501	Marchald and and I have

- NUTR\*4200 [0.50] Nutrition and Immune Function
- 3. A minimum of 1.00 and to a maximum of 2.00 in research experience may be met either by:
  - i. completing both HK\*4410 and HK\*4420
  - ii. completing HK\*4410 and either HK\*4230 or BIOM\*4500
  - iii. completing both HK\*4230 and BIOM\*4500
  - iv. completing one of the 1.00 credits in research courses in either the Department of Human Health and Nutritional Sciences (HK\*4360 or HK\*4371/2) or in the Department of Biomedical Sciences (BIOM\*4510 or BIOM\*4521/2)
  - v. equivalent course from another department with the permission of the Faculty Advisor
- 4. A total of 2.00 credits in Arts and Social Science courses including:
  - i. 0.50 credits in philosophy and ethics from PHIL\*2030, PHIL\*2070, PHIL\*2100, PHIL\*2120, PHIL\*2180

### ii. 0.50 credits in either psychology (PSYC\*XXXX) or sociology (SOC\*XXXX)

### **Biomedical Toxicology (BTOX)**

Interdisciplinary Program, Department of Biomedical Sciences, Ontario Veterinary 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*1030	[0.50]	Biology I
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 admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2

BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
PHYS*1080	[0.50]	Physics for Life Sciences
STAT*2040	[0.50]	Statistics I
0.50 Arts or Social	l Science el	ectives
Semester 3		
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2480	[0.50]	Analytical Chemistry I
MBG*2000	[0.50]	Introductory Genetics
TOX*2000	[0.50]	Principles of Toxicology
0.50 Arts or Social	Science el	ectives
Semester 4		
BIOL*2210	[0.50]	Introductory Cell Biology
CHEM*2700	[0.50]	Organic Chemistry I
MBG*2020	[0.50]	Introductory Molecular Biology
NUTR*3210	[0.50]	Fundamentals of Nutrition
STAT*2050	[0.50]	Statistics II
Semester 5		
BIOC*3560	[0.50]	Structure and Function in Biochemistry
BIOM*3100	[0.50]	Mammalian Physiology I
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
TOX*3300	[0.50]	Analytical Toxicology
0.25 electives		
Semester 6		
BIOM*3090	[0.50]	Principles of Pharmacology
BIOM*3110	[0.50]	Mammalian Physiology II

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BIOM*3120 PATH*3610 0.75 electives <b>Semester 7</b>	[0.25] [0.50]	Laboratory Exercises in Mammalian Physiology Principles of Disease
BIOM*3030	[0.75]	Biomedical Histology
BIOM*4090	[0.50]	Pharmacology
NUTR*4510	[0.50]	Toxicology, Nutrition and Food
TOX*4000	[0.50]	Medical Toxicology
TOX*4590	[0.50]	Biochemical Toxicology
Semester 8		
STAT*3510	[0.50]	Environmental Risk Assessment
TOX*4100	[0.50]	Toxicological Pathology
TOX*4200	[0.50]	Topics in Toxicology
0.75 electives		

### Biomedical Toxicology (Co-op) (BTOX:C)

Interdisciplinary Program, Department of Biomedical Sciences, Ontario Veterinary College

### **Major (Honours Program)**

A 70% average in courses completed in semesters 1 and 2 is normally required for admission to semester 3 of this program. An optional fourth co-op work term is available.

#### Semester 1 - Fall

 BIOL\*1030
 [0.50]
 Biology I

 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 admitted deficient in one OAC/4U course in Biology, Chemistry or

Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2 - Winter

BIOL*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
COOP*1100	[0.00]	Introduction to Co-operative Education		
PHYS*1080	[0.50]	Physics for Life Sciences		
STAT*2040	[0.50]	Statistics I		
0.50 Arts or Socia		lectives		
Semester 3 - Fa	all			
BIOC*2580	[0.50]	Introductory Biochemistry		
CHEM*2480	[0.50]	Analytical Chemistry I		
MBG*2000	[0.50]	Introductory Genetics		
TOX*2000	[0.50]	Principles of Toxicology		
0.50 Arts or Socia	al Science e	lectives		
Winter				
COOP*1000	[0.00]	Co-op Work Term I		
Semester 4 - St	ummer			
BIOL*2210	[0.50]	Introductory Cell Biology		
CHEM*2700	[0.50]	Organic Chemistry I		
PATH*3610	[0.50]	Principles of Disease		
STAT*2050	[0.50]	Statistics II		
0.50 electives				
Fall				
COOP*2000	[0.00]	Co-op Work Term II		
Semester 5 - W	/inter			
BIOC*3560	[0.50]	Structure and Function in Biochemistry		
MBG*2020	[0.50]	Introductory Molecular Biology		
NUTR*3210	[0.50]	Fundamentals of Nutrition		
STAT*3510	[0.50]	Environmental Risk Assessment		
0.50 electives				
Summer				
COOP*3000	[0.00]	Co-op Work Term III		
Semester 6 - Fa	all			
BIOM*3100	[0.50]	Mammalian Physiology I		
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I		
NUTR*4510	[0.50]	Toxicology, Nutrition and Food		
TOX*3300	[0.50]	Analytical Toxicology		
0.25 electives				
Semester 7 - Winter				
BIOM*3090	[0.50]	Principles of Pharmacology		
BIOM*3110	[0.50]	Mammalian Physiology II		
BIOM*3120	[0.25]	Laboratory Exercises in Mammalian Physiology		
TOX*4100	[0.50]	Toxicological Pathology		
TOX*4200	[0.50]	Topics in Toxicology		

#### 0.25 electives Semester 8 - Fall

BIOM*3030	[0.75]	Biomedical Histology
BIOM*4090	[0.50]	Pharmacology
TOX*4000	[0.50]	Medical Toxicology
TOX*4590	[0.50]	Biochemical Toxicology
0.25 electives		

### **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:

### Semester 1

BIOL*1030	[0.50]	Biology I			
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*10		*			
PHYS*1000	[0.50]				
PHYS*1070	[0.50]				
PHYS*1080	[0.50]	Physics for Life Sciences			
		ficient in one OAC/4U course in Biology, Chemistry or			
		ent introductory course in first semester. The first-year			
	it subject sh	ould be completed by Semester 3.			
Semester 2					
BIOL*1040	[0.50]	Biology II			
CHEM*1050	[0.50]	General Chemistry II			
1 physics course f	rom the foll	owing list (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 (MATH*1	210 recomm	nended):			
MATH*1210	[0.50]	Calculus II			
MATH*2080	[0.50]	Elements of Calculus II			
0.50 Arts or Socia	l Science el	ectives			
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:	[]				
BIOL*2210	[0.50]	Introductory Cell Biology			
MBG*2000	[0.50]	Introductory Genetics			
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	[0.30]	Mechanics II			
PHYS*2470	[0.75]	Electricity and Magnetism II			
Semester 5	[0.75]	Electricity and Magnetism II			
	FO 501				
BIOC*2580	[0.50]	Introductory 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
One of:		
PHYS*4120	[0.50]	Atomic and Molecular Physics
0.50 electives		
One of:		
PHYS*4500	[0.50]	Advanced Physics Laboratory
0.50 electives		
Note: At least one	of PHYS*4	4120 in semester 7 or PHYS*4150 in semester 8 must be
taken.		
Semester 8		
BIOC*4580	[0.50]	Membrane Biochemistry
PHYS*4510	[0.50]	Advanced Physics Project

One of: PHYS\*4150 [0.50] Solid State Physics 0.50 electives

0.50 Arts or Social Science electives

0.50 electives

Note: At least one of PHYS\*4120 in semester 7 or PHYS\*4150 in semester 8 must be taken

Note: PHYS\*4510 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

The program for the first semester is the same as the Major in Biophysics (regular) program.

### Semester 2 - Winter

BIOL*1040 CHEM*1050 COOP*1100	[0.50] [0.50] [0.00]	Biology II General Chemistry II Introduction to Co-operative Education		
		lowing list (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:				
CIS*2500	[0.50]	Intermediate Programming		
0.50 Arts or So	ocial Science	e electives		
One of:				
MATH*1210	[0.50]	Calculus II		
MATH*2080	[0.50]	Elements of Calculus II		
Semester 3 - Fa	all			
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:				
BIOL*2210	[0.50]	Introductory Cell Biology		
MBG*2000	[0.50]	Introductory Genetics		
Winter Semest				
COOP*1000	[0.00]	Co-op Work Term I		
Semester 4 - Summer				
BIOC*2580	[0.50]	Introductory Biochemistry		
MATH*2170	[0.50]	Differential Equations I		
PHYS*2260	[0.50]	Quantum Physics		
PHYS*3240	[0.50]	Statistical Physics I		
0.50 Arts or Socia				
	en as Arts o	r Social Science electives in this Major		
Fall Semester				
COOP*2000	[0.00]	Co-op Work Term II		
Semester 5 - W	inter			
BIOC*3560	[0.50]	Structure and Function in Biochemistry		
PHYS*2030	[0.50]	Biophysics of Excitable Cells		
PHYS*2450	[0.75]	Mechanics II		
PHYS*2470	[0.75]	Electricity and Magnetism II		
PHYS*3220	[0.50]	Waves and Optics		

Summer Semester				
COOP*3000	[0.00]	Co-op Work Term III		
Semester 6 - Fa	11			
MATH*3100	[0.50]	Differential Equations II		
PHYS*3100	[0.75]	Electronics		
PHYS*3230	[0.50]	Quantum Mechanics I		
1.00 electives				
Semester 7 - Wi	inter			
BIOC*4580	[0.50]	Membrane Biochemistry		
PHYS*3510	[0.50]	Intermediate Laboratory		
PHYS*4040	[0.50]	Quantum Mechanics II		
PHYS*4540	[0.50]	Molecular Biophysics		
0.50 electives				
Summer Semes	ter			
COOP*4000	[0.00]	Co-op Work Term IV		
Semester 8 - Fa	11			
MCB*4050	[0.50]	Protein and Nucleic Acid Structure		
PHYS*4120	[0.50]	Atomic and Molecular Physics		
PHYS*4240	[0.50]	Statistical Physics II		
PHYS*4560	[0.50]	Biophysical Methods		
One of:				
PHYS*4500	[0.50]	Advanced Physics Laboratory		
0.50 electives				
Biotechnology	(BIOT)			

Summer Semester

### 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*2020	[0.50]	Introductory Molecular Biology
MICR*2020	[0.50]	Microbial Interactions and Associations
MICR*2030	[0.50]	Microbial Growth
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*2200	[0.50]	Principles of Aquaculture
ANSC*4050	[0.50]	Biotechnology in Animal Science
FOOD*3260	[0.50]	Industrial Microbiology
MBG*4240	[0.50]	Applied Molecular Genetics
MCB*4080	[0.50]	Applied Microbiology and Biochemistry
MICR*3230	[0.50]	Immunology I
MICR*4180	[0.50]	Microbial Processes in Environmental Management
PBIO*3750	[0.50]	Plant Tissue Culture
		(2.1.2.2.6)

### **Business Administration (BADM)**

### Department of Economics, College of Management and Economics

**Minor (Honours Program)** 

A minimum of 5.00 credits is required.			
BUS*2220	[0.50]	Financial Accounting	
BUS*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*3560	[0.50]	Theory of Finance	
MCS*3040	[0.50]	Business and Consumer Law	
One of:			
AGEC*3310	[0.50]	Operations Management	
HTM*4390	[0.50]	Individuals and Groups in Organizations	
One of:			
AGEC*4370	[0.50]	Food & Agri Marketing Management	
MCS*1000	[0.50]	Introductory Marketing	
Studente wishing	to acquire t	further denth in Business Administration shoul	

Students wishing to acquire further depth in Business Administration should consider taking electives from the areas of study listed under Management Economics in the B.A. 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.

### Semester 1

Semester 1			
BIOL*1030	[0.50]	Biology I	
CHEM*1040	[0.50]	General Chemistry I	
MATH*1200	[0.50]	Calculus I	
PHYS*1000	[0.50]	An Introduction to Mechanics	
CIS*1500	[0.50]	Introduction to Programming	
Students who are		eficient in one OAC/4U course in Biology, Chemistry or	
		lent introductory course in first semester. The first-year	
		ould be completed by Semester 3.	
	e subject si		
Semester 2			
BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
MATH*1210	[0.50]	Calculus II	
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	
0.50 Arts or Social	Science el	ectives	
Semester 3			
CHEM*2060	[0.50]	Structure and Bonding	
MATH*2160	[0.50]	Linear Algebra I	
MATH*2200		Advanced Calculus I	
	[0.50]		
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		Electronics	
	[0.75]		
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 Soc	cial Science	electives	
One of:			
CHEM*3870	[0.50]	Symmetry and Spectroscopy	
CHEM*4880	[0.50]	Topics in Advanced Physical Chemistry	
Semester 7			
CHEM*3440	[0.50]	Analytical Chemistry III: Analytical Instrumentation	
IPS*4001	[0.75]	Chemical Physics Research Project	
MATH*3100	[0.50]	Differential Equations II	
PHYS*4120	[0.50]	Atomic and Molecular Physics	
PHYS*4240	[0.50]	Statistical Physics II	
Semester 8	[0.50]	Statistical Thysics II	
	10 751	Chaminal Director Descende Dail 6	
IPS*4002 One of:	[0.75]	Chemical Physics Research Project	
	[0.50]	Symmetry and Spectroscopy	
CHEM*3870	[0.50]	Symmetry and Spectroscopy Topics in Advanced Physical Chemistry	
CHEM*4880	[0.50]	ropics in Advanced Physical Chemistry	
1.50 electives	•		
( 'homiool Dhy		$(\mathbf{CHPV},\mathbf{C})$	

Chemical Physics (Co-op) (CHPY:C)

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)**

A minimum of 21.25 credits is required.

#### Semester 1 - Fall

The program for the first semester is the same as for the Major in Chemical Physics (regular) program.

		<u> </u>	
Semester 2 - W	inter		
BIOL*1040	[0.50]	Biology II	
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:			
CIS*2500	[0.50]	Intermediate Programming	
0.50 Arts or So		e electives	
Semester 3 - Fa			
CHEM*2060	[0.50]	Structure and Bonding	
MATH*2160	[0.50]	Linear Algebra I Advanced Calculus I	
MATH*2200 PHYS*2440	[0.50] [0.75]	Mechanics I	
PHYS*2460	[0.75]	Electricity and Magnetism I	
Winter Semeste		Electrony and magnetism r	
COOP*1000	[0.00]	Co-op Work Term I	
Semester 4 - Su		co-op work renn r	
		Characteria and Caracteria	
CHEM*2070 CHEM*2480	[0.50] [0.50]	Structure and Spectroscopy Analytical Chemistry I	
MATH*2170	[0.50]	Differential Equations I	
PHYS*3240	[0.50]	Statistical Physics I	
One of:	[]		
CHEM*2700	[0.50]	Organic Chemistry I	
0.50 Arts or So	cial Science	e electives	
Fall Semester			
COOP*2000	[0.00]	Co-op Work Term II	
Semester 5 - W	inter		
CHEM*3430	[0.50]	Analytical Chemistry II: Instrumental Analysis	
PHYS*2450	[0.75]	Mechanics II	
PHYS*2470	[0.75]	Electricity and Magnetism II	
PHYS*3220	[0.50]	Waves and Optics	
One of:			
CHEM*3870	[0.50]	Symmetry and Spectroscopy	
0.50 electives Summer Semes	tor		
COOP*3000	[0.00]	Co-op Work Term III	
Semester 6 - Fa			
CHEM*2820	[0.50]	Thermodynamics and Kinetics	
CHEM*3440 CHEM*3860	[0.50]	Analytical Chemistry III: Analytical Instrumentation Quantum Chemistry	
PHYS*3230	[0.50] [0.50]	Quantum Mechanics I	
One of:	[0.50]	Quantum Mechanics I	
CHEM*3640	[0.50]	Chemistry of the Elements I	
CHEM*3750	[0.50]	Organic Chemistry II	
0.50 electives			
Semester 7** -	Winter		
PHYS*4040	[0.50]	Quantum Mechanics II	
One of:			
CHEM*3760	[0.50]	Organic Chemistry III	
0.50 electives			
One of:	FO 501	Commentaria de Constante da commentaria	
CHEM*3870	[0.50]	Symmetry and Spectroscopy	
CHEM*4880 0.50 Arts or Socia	[0.50] 1 Science el	Topics in Advanced Physical Chemistry	
0.50 Arts of Social 0.50 electives			
Summer Semes	ster		
COOP*4000	[0.00]	Co-op Work Term IV	
Semester 8** -		CO-OP WOIK ICHILIY	
		Differential Equations II	
MATH*3100 PHVS*3100	[0.50]	Differential Equations II Electronics	
PHYS*3100 PHYS*4120	[0.75] [0.50]	Atomic and Molecular Physics	
PHYS*4240	[0.50]	Statistical Physics II	
0.50 electives	[0.50]	Saastour i nysios n	
	of 2.00 crea	dits in science courses at the 4000 level is required f	

\*\* A minimum of 2.00 credits in science courses at the 4000 level is required for graduation.

### **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:

X. Degree Programs, Bachelor of Science (B.Sc.)

Semester	1

BIOL*1030	[0.50]	Biology I
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 Soci	al Science	electives

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry Physics must take the equivalent introductory course in first semester. The first-ye science core in that subject should be completed by Semester 3.

### Semester 2

Semester 2				
BIOL*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
MATH*1210	[0.50]	Calculus II		
PHYS*1010	[0.50]	Introductory Electricity and Magnetism		
0.50 electives				
Semester 3				
BIOC*2580	[0.50]	Introductory Biochemistry		
CHEM*2060	[0.50]	Structure and Bonding		
CHEM*2400	[0.75]	Analytical Chemistry I		
MATH*2150	[0.50]	Applied Matrix Algebra		
0.50 electives*				
Semester 4				
CHEM*2070	[0.50]	Structure and Spectroscopy		
CHEM*2700	[0.50]	Organic Chemistry I		
CHEM*3430	[0.50]	Analytical Chemistry II: Instrumental Analysis		
MATH*2170	[0.50]	Differential Equations I		
0.50 electives*				
Semester 5				
CHEM*2820	[0.50]	Thermodynamics and Kinetics		
CHEM*3640	[0.50]	Chemistry of the Elements I		
CHEM*3750	[0.50]	Organic Chemistry II		
CHEM*3860	[0.50]	Quantum Chemistry		
0.50 electives*				
Semester 6				
CHEM*3650	[0.50]	Chemistry of the Elements II		
CHEM*3760	[0.50]	Organic Chemistry III		
1.50 electives* or restricted electives**				
Semester 7 and	8			
CHEM*3440	[0.50]	Analytical Chemistry III: Analytical Instrumentation		
3.00 Chemistry or Biochemistry**				
1.50 electives*				
*selection of electives is subject to the following:				
1. At least 1.00 credits must be in the Arts & Social Sciences.				
2. PHYS*2040 o	or PHYS*2	260		
<ol> <li>Approval of the Faculty Advisor must be obtained for the selection of courses not listed as restrictive electives.</li> </ol>				
4. Options for a	n "Area of	f Focus" or a minor are available. Subject areas include		
Biochemistry, Computing and Information Science, Earth Sciences, Environmental Sciences, Mathematical Sciences, and Physics. Please consult with your Faculty Advisor for more detail.				

\*\*3.00 credits from the 3000/4000 level as follows:

- 1. 1.50 comprising of (CHEM\*3870 or CHEM\*4880), (CHEM\*4620 or CHEM\*4630), (CHEM\*4720 or CHEM\*4730)
- 2. 1.50 chosen from CHEM\*3870, CHEM\*4010, CHEM\*4400, BIOC\*4520, BIOC\*4540, BIOC\*4550, BIOC\*4570, BIOC\*4580, CHEM\*4620, CHEM\*4630, CHEM\*4720, CHEM\*4730, CHEM\*4740, CHEM\*4880, CHEM\*4900, CHEM\*4910, TOX\*4590

#### Note:

1. Some of these courses may have to be taken in Semester 6.

2. Some of these courses are offered only in alternate years, and some have additional prerequisites for which the student must plan ahead, with the assistance of the faculty advisor.

### Minor (Honours Program)

A minor in Chemistry consists of at least 5.00 credits from the core course list and 2.50 from Chemistry at the 2000 level or above including 1.00 from the Restricted Electives list that follows:

### **Core Courses**

CHEM*2060	[0.50]	Structure and Bonding
CHEM*2070	[0.50]	Structure and Spectroscopy
CHEM*2700	[0.50]	Organic Chemistry I
One of:		
CHEM*2400	[0.75]	Analytical Chemistry I

CHEM*2480	[0.50]	Analytical Chemistry I
One of:		
CHEM*2820	[0.50]	Thermodynamics and Kinetics
CHEM*2880	[0.50]	Physical Chemistry
<b>Restricted Elec</b>	tives - 1.0	0 credits from the following courses:
CHEM*3870	[0.50]	Symmetry and Spectroscopy
CHEM*4010	[0.50]	Chemistry and Industry
CHEM*4400	[0.50]	Advanced Topics in Analytical Chemistry
CHEM*4620	[0.50]	Advanced Topics in Inorganic Chemistry
CHEM*4630	[0.50]	Bioinorganic Chemistry
CHEM*4720	[0.50]	Organic Reactivity
CHEM*4730	[0.50]	Synthetic Organic Chemistry
CHEM*4880	[0.50]	Topics in Advanced Physical Chemistry
Chemistry (C	co-op) (Cl	HEM:C)
Department of C	hemistry, (	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

BIOL*1030	[0.50]	Biology I
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 admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2 - Winter

BIOL*1040	[0.50]	Biology II
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
0.50 electives		
Semester 3 - Fal	11	
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2060	[0.50]	Structure and Bonding
CHEM*2400	[0.75]	Analytical Chemistry I
MATH*2150	[0.50]	Applied Matrix Algebra
0.50 electives*		
Winter Semeste	r	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - Su	mmer	
CHEM*2070	[0.50]	Structure and Spectroscopy
CHEM*2700	[0.50]	Organic Chemistry I
CHEM*3430	[0.50]	Analytical Chemistry II: Instrumental Analysis
MATH*2170	[0.50]	Differential Equations I
0.50 electives*		
Semester 5 - Fal	11	
CHEM*2820	[0.50]	Thermodynamics and Kinetics
CHEM*3440	[0.50]	Analytical Chemistry III: Analytical Instrumentation
CHEM*3640	[0.50]	Chemistry of the Elements I
CHEM*3860	[0.50]	Quantum Chemistry
0.50 electives*		
Winter Semeste	r	
COOP*2000	[0.00]	Co-op Work Term II
Semester 6 - Su	mmer	
CHEM*3750	[0.50]	Organic Chemistry II
One of:		
PHYS*2260	[0.50]	Quantum Physics
0.50 electives*		
1.50 electives* or 1	estricted el	ectives**
Fall Semester		
COOP*3000	[0.00]	Co-op Work Term III
Semester 7 - Wi	nter	
CHEM*3650	[0.50]	Chemistry of the Elements II
CHEM*3760	[0.50]	Organic Chemistry III
		2007-2008 University of Guelph Undergraduate Calendar
		, r

Last Revision: January 28, 2008

### Summer Semester

#### COOP\*4000 [0.00] Co-op Work Term IV Semester 8 - Fall

2.50 electives\* or restricted electives\*\*

\* selection of electives is subject to the following:

- 1. At least 1.00 credits must be in the Arts & Social Sciences.
- 2. PHYS\*2040 or PHYS\*2260
- 3. Approval of the Faculty Advisor must be obtained for the selection of courses not listed as restrictive electives.
- 4. Options for an "Area of Focus" or a minor are available. Subject areas include Biochemistry, Computing and Information Science, Earth Sciences, Environmental Sciences, Mathematical Sciences, and Physics. Please consult with your Faculty Advisor for more detail.
- \*\* 3.00 credits from the 3000/4000 level as follows:
- 1. 1.50 comprising of (CHEM\*3870 or CHEM\*4880), (CHEM\*4620 or CHEM\*4630), (CHEM\*4720 or CHEM\*4730)
- 2. 1.50 chosen from CHEM\*3870, CHEM\*4010, CHEM\*4400, BIOC\*4520, BIOC\*4540, BIOC\*4550, BIOC\*4570, BIOC\*4580, CHEM\*4620, CHEM\*4630, CHEM\*4720, CHEM\*4730, CHEM\*4740, CHEM\*4880, CHEM\*4900, CHEM\*4910, TOX\*4590

#### 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.

Stream B: double work term option

#### Semester 1 - Fall

BIOL*1030 CHEM*1040	[0.50] [0.50]	Biology I General Chemistry I		
MATH*1200	[0.50]	Calculus I		
PHYS*1000	[0.50]	An Introduction to Mechanics		
0.50 Arts or Social Science electives				

0.50 Arts or Social Science electives

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2 - Winter

Semester 2 - Wi	muer			
BIOL*1040	[0.50]	Biology II		
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		
0.50 electives				
Semester 3 - Fa	11			
BIOC*2580	[0.50]	Introductory Biochemistry		
CHEM*2060	[0.50]	Structure and Bonding		
CHEM*2400	[0.75]	Analytical Chemistry I		
MATH*2150	[0.50]	Applied Matrix Algebra		
0.50 electives*				
Winter Semeste	er			
COOP*1000	[0.00]	Co-op Work Term I		
Semester 4 - Su	mmer			
CHEM*2070	[0.50]	Structure and Spectroscopy		
CHEM*2700	[0.50]	Organic Chemistry I		
CHEM*3430	[0.50]	Analytical Chemistry II: Instrumental Analysis		
MATH*2170	[0.50]	Differential Equations I		
0.50 electives*				
Semester 5 - Fall				
CHEM*2820	[0.50]	Thermodynamics and Kinetics		
CHEM*3640	[0.50]	Chemistry of the Elements I		
CHEM*3750	[0.50]	Organic Chemistry II		
CHEM*3860	[0.50]	Quantum Chemistry		
0.50 electives*				
Semester 6 - Wi	inter			
CHEM*3650	[0.50]	Chemistry of the Elements II		
CHEM*3760	[0.50]	Organic Chemistry III		
One of:				
PHYS*2260 0.50 electives*	[0.50]	Quantum Physics		
1.00 electives* or	restricted el	lectives*		
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

- CHEM\*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
- 2.00 electives\* or restricted electives\*\*
- \* selection of electives is subject to the following:
  - 1. At least 1.00 credits must be in the Arts & Social Sciences.
  - 2. PHYS\*2040 or PHYS\*2260
  - 3. Approval of the Faculty Advisor must be obtained for the selection of courses not listed as restrictive electives.
  - 4. Options for an "Area of Focus" or a minor are available. Subject areas include Biochemistry, Computing and Information Science, Earth Sciences, Environmental Sciences, Mathematical Sciences, and Physics. Please consult with your Faculty Advisor for more detail.
- \*\* 3.00 credits from the 3000/4000 level as follows:
- 1. 1.50 comprising of (CHEM\*3870 or CHEM\*4880), (CHEM\*4620 or CHEM\*4630), (CHEM\*4720 or CHEM\*4730)
- 2. 1.50 chosen from CHEM\*3870, CHEM\*4010, CHEM\*4400, BIOC\*4520, BIOC\*4540, BIOC\*4550, BIOC\*4570, BIOC\*4580, CHEM\*4620, CHEM\*4630, CHEM\*4720, CHEM\*4730, CHEM\*4740, CHEM\*4880, CHEM\*4900, CHEM\*4910, TOX\*4590

#### Note:

Some of these courses are offered only in alternate years, and some have additional prerequisites for which the student must plan ahead, with the assistance of the faculty advisor.

### **Computing and Information Science (CIS)**

#### Department of Computing and Information Science, College of Physical and **Engineering Science**

The B.Sc. Programs in Computing and Information Science (CIS) provide a solid foundation in software design and computer applications, especially in the physical and biological sciences. The Major offers substantial computing experience, as well as an understanding of both fundamental principles and modern applications. The minor provides sufficient software experience to enable significant contribution to many areas of application.

#### Computing and Information 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 12.0 credits in computing, mathematics and statistics, of which 2.5 credits are CIS electives. Other electives must include at least 1.50 in science courses with at least 0.50 at the 3000 level or above. At least 1.00 credits must be in the Arts of Social Sciences, and 0.50 remaining credits in the introductory science sequence (see note in semester 2)

#### Semester 1

BIOL*1030	[0.50]	Biology I
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
Students who a	are admitted d	eficient in one OAC/4U course in E

Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2

CIS*1910	[0.50]	Discrete Structures in Computing I	
CIS*2500	[0.50]	Intermediate Programming	
MATH*1210	[0.50]	Calculus II	
Two of (only one of	of PHYS*1	010 or PHYS*1130 may be selected): *	
BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	
PHYS*1130	[0.50]	Physics with Applications	
*Note: A third course from this list must be taken before graduation.			
Semester 3			
CIS*2030	[0.50]	Structure and Application of Microcomputers	
CIS*2430	[0.50]	Object Oriented Programming	
CIS*2520	[0.50]	Data Structures	
CIS*2910	[0.50]	Discrete Structures in Computing II	
MATH*2150	[0.50]	Applied Matrix Algebra	

X. Degree Progra	ms, Bachelo	or of Science (B.Sc.)
Semester 4		
CIS*2750 CIS*3110 STAT*2040 0.75 electives	[0.75] [0.50] [0.50]	Software Systems Development and Integration Operating Systems Statistics I
Semester 5		
CIS*2460 CIS*3530 CIS*3750 One of:	[0.50] [0.50] [0.75]	Modelling of Computer Systems Data Base Systems and Concepts System Analysis and Design in Applications
MATH*3240 0.50 electives Note: MATH*	[0.50] 2130 in Sen	Operations Research nester 6 or MATH*3240 in Semester 5 must be taken.
0.25 elective	2100 11 501	
Semester 6		
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms
		Numerical Methods nester 6 or MATH*3240 in Semester 5 must be taken. ) level or above ( CIS*3200 [0.75]recommended)
Semester 7		
0.50 CIS electives 1.00 4000 level C 1.00 electives		vel or above
Semester 8		
1.00 CIS credits a 1.50 electives The minor progra <b>Minor (Hono</b>	m requires a	at least 5.25 credits, including:
CIS*1500	[0.50]	Introduction to Programming
	[0.20]	BB

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				

### Computing and Information Science (Co-op) (CIS:C)

#### Department of Computing and Information Science, College of Physical and **Engineering Science**

The 4 year Honours Program Major in Computing and Information Science is also available as a Co-operative Education Program. Three co-op work terms are required. A five year option with four work terms is also available. Please see the department's co-op faculty advisor for details.

COOP\*1100 must be completed in the 2nd academic semester (winter of year 1). Students may apply for these options at the time of University admission or completion of semester 2.

Conditions for graduation are the same as the corresponding regular B.Sc. program. In addition, all work reports must have a grade of satisfactory or better.

Electives must include at least 1.50 at the 3000 level or above. At least 1.00 credits must be in the Arts or Social Sciences, and 0.50 remaining credit in the introductory science sequence (see note in semester 2).

### The recommended schedule of studies for Co-Op Stream A (4-year) is as follows:

### Semester 1 - Fall

BIOL*1030	[0.50]	Biology I		
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		
Students who are admitted deficient in one OAC/4U course in Biology, Cher				
Physics must take the equivalent introductory course in first semester. The fi				

emistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2 - Winter

CIS*1910	[0.50]	Discrete Structures in Computing I		
CIS*2500	[0.50]	Intermediate Programming		
COOP*1100	[0.00]	Introduction to Co-operative Education		
MATH*1210	[0.50]	Calculus II		
Two of (only one of PHYS*1010 or PHYS*1130 may be selected): *				

BIOL\*1040 [0.50] Biology II CHEM\*1050 [0.50] General Chemistry II PHYS\*1010 [0.50] Introductory Electricity and Magnetism PHYS\*1130 [0.50] Physics with Applications \*Note: A third course from this list must be taken before graduation. Semester 3- Summer CIS\*2030 [0.50]Structure and Application of Microcomputers CIS\*2430 [0.50] **Object Oriented Programming** CIS\*2520 [0.50] Data Structures CIS\*2910 Discrete Structures in Computing II [0.50] MATH\*2150 [0.50] Applied Matrix Algebra **Fall Semester** COOP\*1000 [0.00]Co-op Work Term I Semester 4 - Winter CIS\*2750 [0.75] Software Systems Development and Integration CIS\*3110 [0.50] Operating Systems STAT\*2040 [0.50] Statistics I 0.75 electives Summer Semester COOP\*2000 [0.00] Co-op Work Term II Semester 5 - Fall CIS\*2460 [0.50] Modelling of Computer Systems CIS\*3530 Data Base Systems and Concepts [0.50] CIS\*3750 [0.75] System Analysis and Design in Applications One of: MATH\*3240 [0.50] **Operations Research** (Note: requires co-requisite of MATH\*2200) 0.50 electives Note: MATH\*2130 in Semester 6 or MATH\*3240 in Semester 5 must be taken. 0.25 elective Winter Semester COOP\*3000 [0.00] Co-op Work Term III Semester 6 - Summer CIS\*3490 [0.50] The Analysis and Design of Computer Algorithms One of: MATH\*2130 Numerical Methods [0.50] 0.50 electives Note: MATH\*2130 in Semester 6 or MATH\*3240 in Semester 5 must be taken. 1.00 CIS electives at the 3000 level or above (CIS\*3760 recommended) 0.50 electives Semester 7 - Fall 0.50 CIS electives at 3000 level or above 1.00 electives 1.00 credits in CIS at the 4000 level Semester 8 - Winter 1.50 electives 1.00 credits in CIS at the 4000 level The recommended schedule of studies for Co-Op Stream B(5-year) is as follows: Semester 1 - Fall BIOL\*1030 [0.50] Biology I 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 Semester 2 - Winter CIS\*1910 [0.50] Discrete Structures in Computing I CIS\*2500 [0.50] Intermediate Programming COOP\*1100 [0.00]Introduction to Co-operative Education MATH\*1210 [0.50] Calculus II Two of (only one of PHYS\*1010 or PHYS\*1130 may be selected): \*

BIOL	L*1040	[0.50]	Biology II
CHE	M*1050	[0.50]	General Chemistry II
PHYS	S*1010	[0.50]	Introductory Electricity and Magnetism
PHYS	S*1130	[0.50]	Physics with Applications
*Note: A	A third course	from this li	ist must be taken before graduation.

### Summer Semester Off

### Semester 3 - Fall

CIS*2030	[0.50]	Structure and Application of Microcomputers
CIS*2430	[0.50]	Object Oriented Programming
CIS*2520	[0.50]	Data Structures
CIS*2910	[0.50]	Discrete Structures in Computing II
MATH*2150	[0.50]	Applied Matrix Algebra
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Semester 4 - W	Vinter	
CIS*2750	[0.75]	Software Systems Development and Integration
CIS*3110	[0.50]	Operating Systems
STAT*2040	[0.50]	Statistics I
Note: STAT*210	0 (F) is an a	cceptable replacement for STAT*2040 .
0.25 elective		
Summer Seme	ster	
COOP*1000	[0.00]	Co-op Work Term I
Semester 5 - Fa	all	•
CIS*2460	[0.50]	Modelling of Computer Systems
CIS*3530	[0.50]	Data Base Systems and Concepts
CIS*3750	[0.75]	System Analysis and Design in Applications
0.25 elective	-	
One of:		
MATH*3240	[0.50]	Operations Research
	s co-requisit	e of MATH*2200).
0.50 electives		
		er 6 or MATH*3240 in Semester 5 must be taken. CIS*3210
		e subsequent courses in distributed systems.
Winter Semest	ter	
COOP*2000	[0.00]	Co-op Work Term II
Semester 6 - Si	ummer	
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms
One of:		
MATH*2130	[0.50]	Numerical Methods
0.50 electives		
		nester 6 or MATH*3240 in Semester 5 must be taken.
0.50 electives	s at the 3000	) level or above (CIS*3760 recommended)
Fall Semester		
	50.003	a
COOP*3000	[0.00]	Co-op Work Term III
Semester 7 - W		
0.50 CIS elective	s at 3000 lev	vel or above
1.00 electives		
1.00 credits in CI		0 level
Summer Seme	ster	
COOP*4000	[0.00]	Co-op Work Term IV
Semester 8 - Fa	all	
1.50 electives		
1.00 credits in CI	S at the 400	0 level
Earth Saufaa		

### **Earth Surface Science (ESS)**

### Department of Geography, College of Social and Applied Human Sciences Department of Land Resource Science, Ontario Agricultural College

This program combines elements of Geomorphology, Geology and Meteorology and focuses on the study of processes and properties of the abiotic component of the environment.

Graduates of the program should meet the knowledge requirements for eligibility to apply for membership as Environmental Geoscientists in the Association of Professional Geoscientists of Ontario (APGO), allowing for use of the designation P. Geo.

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. Students planning to enter the program are advised to consult advisors in either of the two departments. Students needing program approval should contact the B.Sc. Advisors in the Department of Geography.

### Major (Honours Program)

Semester 1	L
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BIOL*1030	[0.50]	Biology I			
CHEM*1040	[0.50]	General Chemistry I			
GEOL*1050	[0.50]	Geology and the Environment			
PHYS*1080	[0.50]	Physics for Life Sciences			
0.50 Mathematics course from:					
MATH*1080	[0.50]	Elements of Calculus I			
MATH*1200	[0.50]	Calculus I			

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2

BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
PHYS*1130	[0.50]	Physics with Applications	
GEOG*1300	[0.50]	Introduction to the Biophysical Environment	
0.50 Arts or Social Science electives			

Semester 3 and	4	
GEOG*2000	[0.50]	Geomorphology
GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOL*2020	[0.50]	Stratigraphy
GEOL*2200	[0.50]	Glacial Geology
MET*2030	[0.50]	Meteorology and Climatology
SOIL*2010	[0.50]	Soil Science
0.50 Mathematics	/Computer	Science from:
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
One of:		
GEOG*2460	[0.50]	Analysis in Geography
STAT*2040	[0.50]	Statistics I
0.50 Arts or Socia	l Science el	ectives
0.50 electives		
Semester 5 and	6	
GEOG*3000	[0.50]	Fluvial Processes
GEOG*3610	[0.50]	Environmental Hydrology
GEOL*2110	[0.50]	Earth Material Science
GEOL*3190	[0.50]	Environmental Water Chemistry
1.50 from List A		
1.50 electives		
Semester 7 and	8	
GEOG*4150	[0.50]	Sedimentary Processes
1.50 from List A		
3.00 electives		
List A		
GEOG*3620	[0.50]	Desert Environments
GEOG*4250	[0.50]	Coastal Processes
GEOG*4690	[1.00]	Geography Field Research
GEOL*3060	[0.50]	Groundwater
GEOL*3090	[0.50]	Applied Structural Geology
GEOL*3250	[0.50]	Field Methods in Geosciences
GEOL*4090	[0.50]	Sedimentology
GEOL*4130	[0.50]	Clay and Humic Chemistry
MET*3050	[0.50]	Microclimatology
Other Require	ments	
1 1 1 1 50	12. 0	T

- At least 1.50 credits from List A must be at the 4000 level.
- At least 2.50 electives must be acceptable science courses.
- 3. At least 6.00 of all science credits must be 3000 or 4000 level, of which at least 2.00 must be at the 4000 level.

#### 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)

[0.50]

One of: CIS\*1200

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*1030	[0.50]	Biology I		
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 Socia	al Science e	lectives		
Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or				
Physics must take the equivalent introductory course in first semester. The first-year				
science core in that subject should be completed by Semester 3.				
Semester 2				
BIOL*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
PHYS*1080	[0.50]	Physics for Life Sciences		

Introduction to Computing

CIS*1500	[0.50]	Introduction to Programming
0.50 Arts or Socia	al Science el	ectives
Semester 3		
BIOL*2210	[0.50]	Introductory Cell Biology
STAT*2040	[0.50]	Statistics I
One of:		
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
GEOL*1050	[0.50]	Geology and the Environment
1.00 electives		
Semester 4		
BIOC*2580	[0.50]	Introductory Biochemistry
BIOL*3110	[0.50]	Population Ecology
MBG*2000	[0.50]	Introductory Genetics
One of:		
BIOL*2250	[0.50]	Biostatistics and the Life Sciences
STAT*2050	[0.50]	Statistics II
0.50 electives		
Semester 5		
BIOL*3010	[0.50]	Laboratory and Field Work in Ecology
One of:		
BOT*2100	[0.50]	Life Strategies of Plants
ZOO*3200	[0.50]	Comparative Animal Physiology I
One of:		
ZOO*2070	[0.50]	Invertebrate Zoology I
ZOO*2090	[0.50]	Vertebrate Structure and Function
One of:	10 501	
MBG*3000	[0.50]	Population Genetics
ZOO*3300 0.50 electives	[0.50]	Evolution
Semester 6		
BIOL*3120	[0.50]	Community Ecology
2.00 electives		
Semester 7		
BIOL*4110	[0.75]	Ecological Methods
1.75 electives		
Semester 8		
BIOL*4120	[0.50]	Evolutionary Ecology
2.00 electives		
Areas of Emp	ohasis	
	ohasis	

### 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)**

1	00	*
ZOO*4070	[0.50]	Animal Behaviour
ZOO*4170	[0.50]	Experimental Comparative Animal Physiology
0.75 credits from:		
IBIO*4500	[0.75]	Research in Integrative Biology I
ZOO*4410	[0.75]	Field Ecology
ZOO*4600	[0.75]	Tropical Ecology
ZOO*4610	[0.75]	Arctic Ecology
ZOO*4700	[0.50]	Field Biology
ZOO*4710	[0.25]	Field Biology
ZOO*4800	[0.50]	Field Biology
ZOO*4810	[0.25]	Field Biology
One of the follow	ing not alrea	ady successfully completed in Semester 6:
MBG*3000	[0.50]	Population Genetics
ZOO*3300	[0.50]	Evolution
1.75 additional sc	ience credits	s, at least 1.50 of which are at the 3000 or 4000 level
T / / T	1 (11)	
Interpretive E	cology (IE)	)
ENVB*3000	[0.50]	) Nature Interpretation
	00	
ENVB*3000	[0.50] [0.50]	Nature Interpretation
ENVB*3000 ZOO*4070	[0.50] [0.50]	Nature Interpretation
ENVB*3000 ZOO*4070 0.75 credits from:	[0.50] [0.50]	Nature Interpretation Animal Behaviour Field Ecology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410	[0.50] [0.50] [0.75]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600	[0.50] [0.50] [0.75] [0.75]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610	[0.50] [0.50] [0.75] [0.75] [0.75]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610 ZOO*4700	[0.50] [0.50] [0.75] [0.75] [0.75] [0.50]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology Field Biology Field Biology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610 ZOO*4700 ZOO*4710	[0.50] [0.50] [0.75] [0.75] [0.75] [0.50] [0.25]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology Field Biology Field Biology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610 ZOO*4700 ZOO*4710 ZOO*4800 ZOO*4810	[0.50] [0.50] [0.75] [0.75] [0.75] [0.75] [0.50] [0.25] [0.25]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology Field Biology Field Biology Field Biology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610 ZOO*4700 ZOO*4710 ZOO*4800 ZOO*4810	[0.50] [0.50] [0.75] [0.75] [0.75] [0.75] [0.50] [0.25] [0.25]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology Field Biology Field Biology Field Biology Field Biology Field Biology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610 ZOO*4700 ZOO*4700 ZOO*4710 ZOO*4800 ZOO*4810 At least 0.75 addi	[0.50] [0.50] [0.75] [0.75] [0.75] [0.75] [0.50] [0.25] [0.25]	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology Field Biology Field Biology Field Biology Field Biology Field Biology
ENVB*3000 ZOO*4070 0.75 credits from: ZOO*4410 ZOO*4600 ZOO*4610 ZOO*4700 ZOO*4710 ZOO*4710 ZOO*4800 ZOO*4810 At least 0.75 addi One of:	[0.50] [0.50] [0.75] [0.75] [0.75] [0.75] [0.25] [0.25] [0.25] tional science	Nature Interpretation Animal Behaviour Field Ecology Tropical Ecology Arctic Ecology Field Biology Field Biology Field Biology Field Biology Field Biology ce credits at the 3000 or 4000 level

ZOO*4020	[0.50]	Ichthyology
ZOO*4020 ZOO*4090	[0.50]	Ornithology
ZOO*4090 ZOO*4280	[0.50]	Mammalogy
ZOO*4280 ZOO*4430	[0.50]	Herpetology
One of:	[0.50]	Helpetology
	[0.50]	Introduction to Aquatic Environments
BIOL*3450 ENVB*3090	[0.50]	Insect Diversity and Biology
Recommended:	[0.50]	lisect Diversity and Biology
CHEM*3360	IO <b>5</b> 01	Environmental Chemistry and Taviagleav
	[0.50] [0.50]	Environmental Chemistry and Toxicology Natural Chemicals in the Environment
ENVB*3040 ENVB*4040	[0.50]	Behaviour of Insects
MICR*4140	[0.50]	Soil Microbiology and Biotechnology
<b>Resource Cons</b>	ervation (	KC)
AGEC*2700	[0.50]	Survey of Natural Resource Economics
BIOL*3130	[0.50]	Conservation Biology
ECON*1050	[0.50]	Introductory Microeconomics
ZOO*4050	[0.50]	Natural Resources Policy
2.50 additional sc	ience credit	s, 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 (Hono	urs Prog	ram)
A minimum of 5.0	00 credits is	required to completed 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:		
MBG*3000	[0.50]	Population Genetics
ZOO*3300	[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 chose	n in consult	ation with the faculty advisor

### **Environmental Biology (ENVB)**

#### Department of Environmental Biology, 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 - and 4000-levels with a minimum of 2.00 credits at the 4000-level.

#### Semester 1

MATH\*2080

[0.50]

BIOL*1030	[0.50]	Biology I		
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 Soci	al Science el	ective		
Students who are	admitted de	ficient in one OAC/4U course in Biology, Chemistry or		
Physics must take	e the equival	ent introductory course in first semester. The first-year		
science core in that subject should be completed by Semester 3.				
Semester 2				
BIOL*1040	[0.50]	Biology II		
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		

Elements of Calculus II

One of:

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STAT*2040	[0.50]	Statistics I
0.50 Arts or Social	Science ele	ctive

Semester 3	
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	bennester 5			
	BIOC*2580	[0.50]	Introductory 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*2000	[0.50]	Introductory 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)

### Semester 6

ENVB*3330	[0.50]	Ecosystem Processes and Applications
ZOO*3300	[0.50]	Evolution
1.50 electives or	r restricted ele	ectives chosen from lists A, B, C and/or D

#### Semester 7

Students contemplating graduate studies are encouraged to take ENVB\*4420 and/or ENVB\*4800 in semesters 7 or 8.

2.50 electives or restricted electives chosen from lists A, B, C and/or D

### 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:

in minimum of the	o ereans mo	in the folio wing list.
CROP*2110	[0.50]	Crop Ecology
CROP*2280	[0.50]	Crops in Land Reclamation
ENVB*2010	[0.50]	Food Production and the Environment
ENVB*2040	[0.50]	Plant Health and the Environment
ENVB*3040	[0.50]	Natural Chemicals in the Environment
ENVB*3210	[0.50]	Plant Pathology
ENVB*4040	[0.50]	Behaviour of Insects **
ENVB*4100	[0.50]	Applied Entomology **
ENVB*4130	[0.50]	Chemical Ecology: Principles & Practice **
MICR*3220	[0.50]	Plant Microbiology
MICR*4140	[0.50]	Soil Microbiology and Biotechnology
PBIO*4750	[0.50]	Genetic Engineering of Plants **
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape
		Management
TIODI	( 0D 11	

#### 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
ENVB*3010	[0.50]	Climate Change Biology
ENVB*3030	[0.50]	Pesticides and the Environment
ENVB*4240	[0.50]	Biological Activity of Pesticides
ENVB*4550	[0.50]	Ecotoxicological 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*3360	[0.50]	Environmental Chemistry and Toxicology
ZOO*4350	[0.50]	Biology of Polluted Waters **
ZOO*4610	[0.75]	Arctic Ecology
List C - Conser	vation of 1	Biodiversity & Natural Resources
Minimum of 1.00	credits from	the following list:
BIOL*3130	[0.50]	Conservation Biology
BIOL*4060	[0.50]	Restoration Ecology **
BIOL*4150	[0.50]	Wildlife Conservation and Management
EN 11 / D # 2020	50 501	

ENVB*2030 [0.50] Current Issues in Forest Science
ENVB*3090 [0.50] Insect Diversity and Biology
ENVB*3250 [0.50] Forest Health and Disease
ENVB*3300 [0.50] Applied Ecology and Environment **
ENVB*4020 [0.50] Water Quality and Environmental Management *

ENVB*4220	[0.50]	Biology of Aquatic Insects **			
ENVB*4260	[0.50]	Field Entomology **			
ENVB*4270	[0.50]	Insect Biosystematics **			
ENVB*4780	[0.50]	Forest Ecology **			
ENVS*4220	[0.50]	Environmental Impact Assessment **			
SOIL*2120	[0.50]	Introduction to Environmental Stewardship			
SOIL*3050	[0.50]	Land Utilization **			
SOIL*3080	[0.50]	Soil and Water Conservation **			
SOIL*3100	[0.50]	Resource Planning Techniques **			
ZOO*4050	[0.50]	Natural Resources Policy			
ZOO*4110	[0.50]	Principles of Fish and Wild Life Management			
ZOO*4600	[0.75]	Tropical Ecology			
List D - Suppor	List D - Supporting Courses				
ENVB*4420	[0.50]	Problems in Environmental Biology			
ENVB*4800	[0.50]	Topics in Applied Biology			
The following rest	ricted elect	ive 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			
MBG*2020	[0.50]	Introductory Molecular Biology			
SOIL*2010	[0.50]	Soil Science			

### **Environmental Toxicology (ETOX)**

Interdisciplinary Program, Department of Environmental Biology, 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*1030	[0.50]	Biology I
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*		

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2

0.25 electives\*

BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
PHYS*1080	[0.50]	Physics for Life Sciences
STAT*2040	[0.50]	Statistics I
0.50 electives*		
Semester 3		
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2480	[0.50]	Analytical Chemistry I
MBG*2000	[0.50]	Introductory Genetics
TOX*2000	[0.50]	Principles of Toxicology
0.50 electives*		
Semester 4		
BIOL*2060	[0.50]	Ecology
CHEM*2700	[0.50]	Organic Chemistry I
MBG*2020	[0.50]	Introductory Molecular Biology
STAT*2050	[0.50]	Statistics II
0.50 electives*	. ,	
Semester 5		
BOT*2100	[0.50]	Life Strategies of Plants
BIOC*3560	[0.50]	Structure and Function in Biochemistry
TOX*3300	[0.50]	Analytical Toxicology
ZOO*3200	[0.50]	Comparative Animal Physiology I
0.50 electives*		
Semester 6		
ENVB*3030	[0.50]	Pesticides and the Environment
SOIL*2010	[0.50]	Soil Science
TOX*3360	[0.50]	Environmental Chemistry and Toxicology
ZOO*4170	[0.50]	Experimental Comparative Animal Physiology
0.50 electives*		
Semester 7		
BIOL*3450	[0.50]	Introduction to Aquatic Environments
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
MICR*4180	[0.50]	Microbial Processes in Environmental Management
ZOO*4350	[0.50]	Biology of Polluted Waters
0.05.1	-	

### Semester 8

PBIO*4530 STAT*3510	[0.50] [0.50]	Environmental Pollution Stresses on Plants Environmental Risk Assessment
TOX*4200	[0.50]	Topics in Toxicology
TOX*4550 0.50 electives*	[0.50]	Ecotoxicological Risk Characterization

\* a minimum of 1.50 credits must be from the College of Arts and/or the College of Social and Applied Human Sciences

#### Environmental Toxicology (Co-op) (ETOX:C)

#### Interdisciplinary Program, Department of Environmental Biology, Ontario Agricultural College

### Major (Honours Program)

A 70% average in the science courses of semesters 1 and 2 is normally required for admission to semester 3 of this program. An optional fourth co-op work term is available.

### Semester 1

BIOL*1030	[0.50]	Biology I
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*		

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2

Semester =		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
COOP*1100	[0.00]	Introduction to Co-operative Education
PHYS*1080	[0.50]	Physics for Life Sciences
STAT*2040	[0.50]	Statistics I
0.50 electives*		
Semester 3 - F	all	
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2480	[0.50]	Analytical Chemistry I
MBG*2000	[0.50]	Introductory Genetics
TOX*2000	[0.50]	Principles of Toxicology
0.50 electives*		1 00
Winter Semest	ter	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - S	ummer	•
CHEM*2700	[0.50]	Organic Chemistry I
SOIL*2010	[0.50]	Soil Science
STAT*2050	[0.50]	Statistics II
TOX*3360	[0.50]	Environmental Chemistry and Toxicology
0.50 electives*		
Semester 5 - F	all	
BIOL*2060	[0.50]	Ecology
BIOL*3450	[0.50]	Introduction to Aquatic Environments
TOX*3300	[0.50]	Analytical Toxicology
ZOO*3200	[0.50]	Comparative Animal Physiology I
0.50 electives*		
Semester 6 - W	Vinter	
BIOC*3560	[0.50]	Structure and Function in Biochemistry
BOT*2100	[0.50]	Life Strategies of Plants
BIOC*3560	[0.50]	Structure and Function in Biochemistry
ENVB*3030	[0.50]	Pesticides and the Environment
MBG*2020	[0.50]	Introductory Molecular Biology
ZOO*4170	[0.50]	Experimental Comparative Animal Physiology
Summer Seme	ster	
COOP*2000	[0.00]	Co-op Work Term II
Fall Semester		
COOP*3000	[0.00]	Co-op Work Term III
Semester 7 - W	Vinter	
PBIO*4530	[0.50]	Environmental Pollution Stresses on Plants
STAT*3510	[0.50]	Environmental Risk Assessment
TOX*4200	[0.50]	Topics in Toxicology
TOX*4550	[0.50]	Ecotoxicological Risk Characterization
0.50 electives*		
Semester 8 - Fall		
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
MICR*4180	[0.50]	Microbial Processes in Environmental Management
ZOO*4350	[0.50]	Biology of Polluted Waters
0.75 electives*		

\* a minimum of 1.50 credits must be from the College of Arts and/or the College of Social and Applied Human Sciences

#### Food Science (FOOD)

### Department of Food Science, Ontario Agricultural College

### **Major (Honours Program)**

### Se

	Major (nonou	irs Progi	raiii)		
	Students may enter this major in Semester 1 or any semester thereafter. A student wishin				
	-	to declare the major must consult the Faculty Advisor.			
Semester 1 - Fall					
	BIOL*1030	[0.50]	Biology I		
	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				
			an Arts or Social Science credit is recommended for those		
	needing to improve		ficient in one OAC/4U course in Biology, Chemistry or		
			ent introductory course in first semester. The first-year		
			ould be completed by Semester 3.		
	Semester 2 - Wi		ourd be completed by beniester 5.		
	BIOL*1040	[0.50]	Biology II		
	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		5		
	Semester 3 - Fal				
	BIOC*2580	[0.50]	Introductory Biochemistry		
	CHEM*2880	[0.50]	Physical Chemistry		
	FOOD*2150	[0.50]	Introduction to Nutritional and Food Science		
	STAT*2040	[0.50]	Statistics I		
	0.50 electives				
	Semester 4 - Wi	nter			
FOOD*2100 [0.50] Communication in Food Science I			Communication in Food Science I		
	FOOD*2620	[0.50]	Food Engineering Principles		
	MICR*2030	[0.50]	Microbial Growth		
	NUTR*3210	[0.50]	Fundamentals of Nutrition		
	0.50 electives				
Semester 5 - Fall					
	FOOD*3010	[0.50]	Food Chemistry		
	FOOD*3160	[0.75]	Food Processing I		
	FOOD*3230	[0.75]	Food Microbiology		
	0.50 electives				
Semester 6 - Winter					
	FOOD*3020	[0.50]	Food Chemistry Laboratory		
	FOOD*3170	[0.50]	Food Processing II		
	1.50 electives	. ,	e		
	Semester 7 - Fal	11			
	FOOD*3260	[0.50]	Industrial Microbiology		
	FOOD*3700	[0.50]	Sensory Evaluation of Foods		
	FOOD*4120	[0.75]	Food Analysis		
	0.75 electives				

#### Semester 8 - Winter

FOOD\*4100 FOOD\*4700

Communication in Food Science II [0.25] [0.50] Food Product Development

#### 1.75 electives Notes:

- 1. ENGL\*1200 is recommended for those students needing to improve their English grammar.
- 2. FOOD\*2150 could be replaced by FOOD\*2010 with permission of department advisor.
- 3. Of the 6.50 electives credits:
  - At least 2.00 must be Arts or Social Sciences.
  - At least 2.00 must be from list of Restricted Electives.
  - At least 0.5 must be from additional science electives.

#### **Restricted Electives:**

FOOD*4010	[0.50]	Food Plant Sanitation and Quality Control
FOOD*4070	[0.50]	Food Packaging
FOOD*4090	[0.50]	Functional Foods and Nutraceuticals
FOOD*4110	[0.50]	Meat and Poultry Processing
FOOD*4140	[0.25]	Communication in Food Science III
FOOD*4220	[0.25]	Topics in Food Science
FOOD*4230	[0.25]	Research in Food Science I
FOOD*4240	[0.25]	Research in Food Science II

325

0.75 electives\*

FOOD*4400	[0.50]	Dairy Processing	FOOD*2620	[0.50]	
FOOD*4520	[0.50]	Cereal Technology	MICR*2030	[0.50]	
MCS*3010	[0.50]	Quality Management	NUTR*3210	[0.50]	
POPM*4040	[0.50]	Epidemiology of Food-borne Diseases	0.50 electives		
Credit Summa	ary (20.00		Summer Semester		
4.00 - 1st year sc	COOP*1000	[0.00]			
9.50 - Required in	n semesters	3-8	Semester 5 - Fall		
2.00 - Restricted	electives		FOOD*3010	[0.50]	
2.00 - Arts or Soc	cial Science	electives	FOOD*3160	[0.75]	
0.50 - Additional	Science ele	ctives	FOOD*3230	[0.75]	
2.00 - Free electi			0.50 electives		
			Semester 6 - Winter		
Minor (Hono	ours Prog	ram)	FOOD*3020	[0.50]	
The Minor in Foo	od Science c	onsists of 5.00 credits as follows:	FOOD*3170	[0.50]	
BIOC*2580	[0.50]	Introductory Biochemistry	1.50 electives		
FOOD*3010 [0.50] Food Chemistry			Summer Sem	ester	
FOOD*3230	[0.75]	Food Microbiology	Optional		
MICR*2030	[0.50]	Microbial Growth	Fall Semester		
One of:			COOP*2000	[0.00]	
FOOD*2010	[0.50]	Principles of Food Science	Winter Semes		
FOOD*2150	[0.50]	Introduction to Nutritional and Food Science			
NUTR*2150	[0.50]	Introduction to Nutritional and Food Sciences	COOP*3000	[0.00]	
One of:			Semester 7 - F	all	
FOOD*2410	[0.50]	Introduction to Food Processing	FOOD*3260	[0.50]	
FOOD*3160	[0.75]	Food Processing I	FOOD*3700	[0.50]	
Restricted Ele	ctives		FOOD*4120	[0.75]	
Choose from the	Choose from the following list to bring the total to a minimum of 5.00 credits for the				

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*3170	[0.50]	Food Processing II
FOOD*3260	[0.50]	Industrial Microbiology
FOOD*3700	[0.50]	Sensory Evaluation of Foods
FOOD*4010	[0.50]	Food Plant Sanitation and Quality Control
FOOD*4070	[0.50]	Food Packaging
FOOD*4090	[0.50]	Functional Foods and Nutraceuticals
FOOD*4110	[0.50]	Meat and Poultry Processing
FOOD*4120	[0.75]	Food Analysis
FOOD*4400	[0.50]	Dairy Processing
FOOD*4520	[0.50]	Cereal Technology
FOOD*4700	[0.50]	Food Product Development
NUTR*3210	[0.50]	Fundamentals of Nutrition
POPM*4040	[0.50]	Epidemiology of Food-borne Diseases
Food Science	e (Co-op)	(FOOD:C)

### Food Science (Co-op) (FOOD:C)

### Department of Food Science, Ontario Agricultural College

### Major (Honours Program)

Semester 1 - F	all	
BIOL*1030	[0.50]	Biology I
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 Soci	ial Science	electives
Notes CIS*1200	noth on thom	on Arts on Social Science and it is recommended for these

Note: CIS\*1200, rather than an Arts or Social Science credit is recommended for those needing to improve their computer skills.

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2 - Winter

BIOL*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
MATH*2080	[0.50]	Elements of Calculus II		
PHYS*1080	[0.50]	Physics for Life Sciences		
0.50 Arts or Social Science electives				

Summer Semester

### Off

### Semester 3 - Fall

BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2880	[0.50]	Physical Chemistry
COOP*1100	[0.00]	Introduction to Co-operative Education
FOOD*2150	[0.50]	Introduction to Nutritional and Food Science
STAT*2040	[0.50]	Statistics I
0.50 electives		
a , , ,	XX7* 4	

### Semester 4 - Winter

FOOD\*2100 [0.50] Communication in Food Science I 2007-2008 University of Guelph Undergraduate Calendar

Food Processing I Food Microbiology

[0.50]

[0.50]

[0.00]

[0.50]

[0.00]

[0.00]

Food Chemistry Laboratory Food Processing II

# Co-op Work Term II

Co-op Work Term III

[0.50] Industrial Microbiology Sensory Evaluation of Foods [0.50] [0.75] Food Analysis

### Semester 8 - Winter

FOOD*4100 FOOD*4700 1.75 electives	[0.25] [0.50]	Communication in Food Science II Food Product Development
Notes:		

See Notes and Credit Summary in Food Science Major.

### **Forest Science (FORS)**

#### Department of Environmental Biology, Ontario Agricultural College

### Minor (Honours Program)

A minor in Forest Science consists of 5.00 credits from the following courses:

BOT*2050	[0.50]	Plant Ecology
ENVB*2030	[0.50]	Current Issues in Forest Science
ENVB*4420	[0.50]	Problems in Environmental Biology
ENVB*4780	[0.50]	Forest Ecology
HORT*3260	[0.50]	Woody Plants
Three of:		
ENVB*3090	[0.50]	Insect Diversity and Biology
GEOG*3110	[0.50]	Biotic and Natural Resources
HORT*3340	[0.50]	Culture of Plants
HORT*3350	[0.50]	Woody Plant Production and Culture
PBIO*4100	[0.50]	Soil Plant Relationships
PBIO*4530	[0.50]	Environmental Pollution Stresses on Plants
Two of:*		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ENVB*3000	[0.50]	Nature Interpretation
GEOG*3210	[0.50]	Management of the Biophysical Environment
SOIL*3100	[0.50]	Resource Planning Techniques
ZOO*4050	[0.50]	Natural Resources Policy
ZOO*4410	[0.75]	Field Ecology
* D M		

### \* Resource Management majors may substitute SOIL\*4110 for ZOO\*4410

**Functional Foods and Nutraceuticals (FFAN)** 

### Department of Human Health and Nutritional Sciences, College of Biological Science Department of Food Science, Ontario Agricultural College.

#### Minor (Honours Program)

	-			
A minor in Functional Foods and Nutraceuticals consists of 5.00 credits.				
BIOC*2580	[0.50]	Introductory Biochemistry		
ECON*1050	[0.50]	Introductory Microeconomics		
NUTR*3210	[0.50]	Fundamentals of Nutrition		
TOX*2000	[0.50]	Principles of Toxicology		
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*4090	[0.50]	Functional Foods and Nutraceuticals		

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 Kinetics\*\*, 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]	Aerial-photo Interpretation	
GEOG*2480	[0.50]	Mapping and GIS	
GEOG*3210	[0.50]	Management of the Biophysical Environment	
GEOG*3420	[0.50]	Remote Sensing of the Environment	
GEOG*3480	[0.50]	GIS and Spatial Analysis	
GEOG*4480	[0.50]	Applied Geographic Information Systems	
One of:			
GEOG*2000	[0.50]	Geomorphology	
GEOG*2110	[0.50]	Climate and the Biophysical Environment	
One of:			
GEOG*3110	[0.50]	Biotic and Natural Resources	
GEOG*3610	[0.50]	Environmental Hydrology	
GEOG*3620	[0.50]	Desert Environments	
And one of:			
GEOG*4110	[0.50]	Environmental Systems Analysis	
GEOG*4210	[0.50]	Environmental Governance	
[Note: GEOG*3110 or GEOG*3610 is required as prerequisite for GEOG*4110]			

#### Geology (GEOL)

### Department of Land Resource Science, Ontario Agricultural College

#### Minor (Honours Program)

A minor will consist of at least 5.00 credits in Geology. The following 7 courses are mandatory:

GEOL*1050	[0.50]	Geology and the Environment	
GEOL*2020	[0.50]	Stratigraphy	
GEOL*2110	[0.50]	Earth Material Science	
GEOL*2150	0.75	Glacial Geology	
GEOL*3090	[0.50]	Applied Structural Geology	
GEOL*3120	[0.50]	Paleontology	
GEOL*4090	[0.50]	Sedimentology	
The second in the second		-harris farme Carls and the Comme	

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 may dent wishing to declare the 00 credits is required.

#### Semester 1

1.0

BIOL*1030	[0.50]	Biology I
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 el	lectives
Students who are	e admitted d	eficient in one OAC/4U course in Biology, Chemistry
Physics must tak	e the equiva	alent introductory course in first semester. The first-year
science core in the	hat subject s	hould be completed by Semester 3.
Semester 2		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
PHYS*1080	[0.50]	Physics for Life Sciences

enter this major in Semester 1 or any semester thereafter. A stu	ıd
major must consult the Faculty Advisor. A minimum of 20	.(

50 electives or	restricted e	lectives		
udents who are	admitted d	BIOL*2210	[0.50]	
sics must tak	e the equiva	BIOC*2580	[0.50]	
ience core in th	nat subject s	hould be completed by Semester 3.	MBG*2000	[0.50]
emester 2	5	1 2	ZOO*2080	[0.50]
OL*1040	[0.50]	Biology II	0.50 electives**	
HEM*1050	[0.50]	General Chemistry II	Semester 5	
IYS*1080	[0.50]	Physics for Life Sciences	BIOL*3110	[0.50]
00 electives or	restricted e	lectives	BIOL*3450	[0.50]
			ZOO*3200	[0.50]
			ZOO*3300	[0.50]

### Semester 3

#### Semester 4

HK*2270	[0.50]	Principles of Human Biomechanics
MBG*2020	[0.50]	Introductory Molecular Biology
NUTR*3210	[0.50]	Fundamentals of Nutrition
ZOO*2100	[0.50]	Developmental Biology
0.50 electives or	restricted e	lectives
Semester 5		
HK*3401	[0.75]	Human Anatomy
HK*3600	[0.75]	Applied Human Biology
HK*3940	[1.25]	Human Physiology
Semester 6		
BIOC*3560	[0.50]	Structure and Function in Biochemistry
HK*3402	[0.75]	Human Anatomy
STAT*2040	[0.50]	Statistics I
0.50 electives or	restricted e	lectives
a		

### Semester 7

If desired, electives or restricted electives up to a maximum of 2.75 total credits. Semester 8

If desired, electives or restricted electives up to a maximum of 2.75 total credits. Note: Students are required to complete 16.00 credits in acceptable science courses. **Restricted Electives** 

Students must complete 2.00 credits from Arts or Social Science courses with the recommendation that 0.50 of the 2.00 credits be in philosophy. A minimum of 2.00 credits of restricted electives is required. They are to be selected from HK\*3100, HK\*4XXX, NUTR\*4090, NUTR\*4210.

### 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*1030	[0.50]	Biology I
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 Socie	1 Saianaa	alactives*

0.50 Arts or Social Science electives\*

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2

BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
PHYS*1080	[0.50]	Physics for Life Sciences
STAT*2040	[0.50]	Statistics I
0.50 Arts or Social	Science el	ectives*
Semester 3		
ZOO*2070	[0.50]	Invertebrate Zoology I
ZOO*2090	[0.50]	Vertebrate Structure and Function
ZOO*2100	[0.50]	Developmental Biology
1.00 electives**		
Semester 4		
BIOL*2210	[0.50]	Introductory Cell Biology
BIOC*2580	[0.50]	Introductory Biochemistry
MBG*2000	[0.50]	Introductory Genetics
ZOO*2080	[0.50]	Invertebrate Zoology II
0.50 electives**		
Semester 5		
BIOL*3110	[0.50]	Population Ecology
BIOL*3450	[0.50]	Introduction to Aquatic Environments
ZOO*3200	[0.50]	Comparative Animal Physiology I
ZOO*3300	[0.50]	Evolution

0.50 electives** Semester 6		
BIOL*3120	[0.50]	Community Ecology
ZOO*3210	[0.50]	Comparative Animal Physiology II
1.50 electives**,	***	
Semester 7		
ZOO*4350	[0.50]	Biology of Polluted Waters
ZOO*4570	[0.50]	Marine Ecological Processes
1.50 electives**		
Semester 8		
IBIO*4010	[0.50]	Adaptational Physiology
ZOO*4330	[0.50]	Environmental 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\*2250 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
	IBIO*4500	[0.75]	Research in Integrative Biology I
	IBIO*4510	[0.75]	Research in Integrative Biology II
	ZOO*4300	[0.75]	Marine Biology and Oceanography
	ZOO*4410	[0.75]	Field Ecology
	ZOO*4540	[0.50]	Marine and Freshwater Research
	ZOO*4600	[0.75]	Tropical Ecology
	ZOO*4610	[0.75]	Arctic Ecology
	ZOO*4700	[0.50]	Field Biology
	ZOO*4710	[0.25]	Field Biology
	ZOO*4800	[0.50]	Field Biology
	ZOO*4810	[0.25]	Field Biology
2.	Other field or resea	rch 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 1.00 calculus credits and 4.00 other credits chosen from mathematics, statistics, and computing and information science. For these 4.00 credits students will choose at least 0.50 from each discipline. At least 1.00 credits must be at the 3000 level or above. This minor cannot be combined with a major in Mathematics, Statistics, or Computing and Information Science.

#### **Mathematics (MATH)**

## Department of Mathematics and Statistics, College of Physical and Engineering Science

### Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A total of 20.00 credits is required to complete the Major which includes at least 10.00 credits in Mathematics & Statistics. This major must include at least 6.00 credits at the 3000 or 4000 level from the approved list of science electives of which at least 2.00 credits must be at the 4000 level (and may include STAT\*4340). At least 1.00 credits in Arts and Social Science must be completed.

#### Semester 1

BIOL*1030	[0.50]	Biology I
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

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2

BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
MATH*1210	[0.50]	Calculus II
PHYS*1010	[0.50]	Introductory Electricity and Magnetism
0.50 electives (CI Semester 3	S*2500 reco	ommended)
MATH*2000	[0.50]	Set Theory
MATH*2160	[0.50]	Linear Algebra I
MATH*2200	[0.50]	Advanced Calculus I
STAT*2040	[0.50]	Statistics I
0.50 Arts or Socia	Il Science el	lectives

MATH*2130	[0.50]	Numerical Methods
MATH*2170	[0.50]	Differential Equations I
MATH*2210	[0.50]	Advanced Calculus II
One of:		
MATH*3160	[0.50]	Linear Algebra II
0.50 electives		
0.50 electives		
Semester 5		
MATH*3100	[0.50]	Differential Equations II
MATH*3200	[0.50]	Real Analysis
One of:		
MATH*3130	[0.50]	Abstract Algebra
MATH*3240	[0.50]	Operations Research
One of:*		
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3240	[0.50]	Applied Regression Analysis
0.50 electives		
		take STAT*4340 in semester 8 should take STAT*3100 in mester 6 and STAT*3240 in semester 5 or 7.
Semester 6		
MATH*3260	[0.50]	Complex Analysis
One of:		
MATH*3160 0.50 electives	[0.50]	Linear Algebra II (if not taken in Sem. 4)

Abstract Algebra

\*A student selecting STAT\*3100 should take STAT\*3110 in semester 6.

A total of 5.00 credits is required to complete the Minor, including:

Set Theory

Advanced Calculus I

Department of Molecular and Cellular Biology, College of Biological Science Microbiology programs are designed to give students a good understanding of

food and beverage) and the environment (surveillance and bioremediation).

advisors, and to check the departmental website for program news.

2.00 additional Mathematics credits at the 2000 level or above, including 1.50 credits at

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,

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

**Operations Research** 

\*\*Students are reminded that the major requires 2.00 credits (four courses) at the 4000

Semester 4

1.50 electives Semester 7

1.50 electives\*\* One of:

MATH\*3130

MATH\*3240

level in Mathematics.

2.50 credits from:

MATH\*2000

MATH\*2200

the 3000 or 4000 level.

Microbiology (MICR)

Minor (Honours Program)

(MATH\*1080 or MATH\*1200)

(MATH\*1210 or MATH\*2080)

(MATH\*2150 or MATH\*2160)

[0.50]

[0.50]

0.50 Statistics (STAT\*) credits at the 2000 level or above.

Semester 8

1.50 electives

0.50 credits from a 4000 level mathematics

[0.50]

[0.50]

1.00 credits from a 4000 level mathematics \*\*

#### Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A total of 20.00 credits is required to complete the major.

#### Semester 1

BIOL*1030	[0.50]	Biology I
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

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

Semester 2	at subject sh	found be completed by Semester 5.
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
PHYS*1080	[0.50]	Physics for Life Sciences
One mathematics/	1	
CIS*1200	[0.50]	Introduction to Computing
CIS*1500	[0.50]	Introduction to Programming
MATH*2080	[0.50]	Elements of Calculus II
0.50 electives		
Semester 3		
BIOC*2580	[0.50]	Introductory Biochemistry
MBG*2000	[0.50]	Introductory Genetics
MICR*2020	[0.50]	Microbial Interactions and Associations
STAT*2040	[0.50]	Statistics I
0.50 electives		
Semester 4		
BIOL*2210	[0.50]	Introductory Cell Biology
MBG*2020	[0.50]	Introductory Molecular Biology
MICR*2030	[0.50]	Microbial Growth
1.00 electives		
Semester 5		
BIOC*3560	[0.50]	Structure and Function in Biochemistry
MBG*3080	[0.50]	Bacterial Genetics
MICR*3120	[0.50]	Systematic Bacteriology
MICR*3230	[0.50]	Immunology I
MICR*3330	[0.50]	World of Viruses
Semester 6		
BIOL*3050	[0.50]	Mycology
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
MICR*3260	[0.50]	Microbial Adaptation and Development
0.75 electives		- *
Semester 7		

2.50 electives or restricted electives which can include MICR\*4310

Semester 8

2.50 electives or restricted electives which can include MICR\*4320 **Elective and Restricted Elective Credits** 

2.00 elective credits must be from the Arts and Social Sciences.

2.50 restricted elective credits of which 1.00 credit must be at the 4000 level.

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 restricted elective credit).

#### **Restricted Electives**

BIOC*4540	[0.50]	Enzymology
BIOC*4580	[0.50]	Membrane Biochemistry
BIOL*4050	[0.50]	Advanced Eukaryotic Microbiology
FOOD*3230	[0.75]	Food Microbiology
FOOD*3260	[0.50]	Industrial Microbiology
FOOD*4400	[0.50]	Dairy Processing
MCB*4080	[0.50]	Applied Microbiology and Biochemistry
MICR*3220	[0.50]	Plant Microbiology
MICR*3270	[0.50]	Microbial Cell Biology
MICR*4010	[0.50]	Pathogenic Bacteriology
MICR*4230	[0.50]	Immunology II
MICR*4240	[0.50]	Topics in Microbiology
MICR*4280	[0.50]	Microbial Ecology
MICR*4310	[1.00]	Research Project I
MICR*4320	[1.00]	Research Project II
MICR*4330	[0.50]	Molecular Virology
MICR*4430	[0.50]	Medical Virology
One of:		
MICR*4140	[0.50]	Soil Microbiology and Biotechnology
MICR*4180	[0.50]	Microbial Processes in Environmental Management
Minor (Honor	urs Prog	ram)

The minor in Microbiology consists of the following 5.25 credits:

2.25 credits inclu	ıding:	
BIOC*3560	[0.50]	Structure and Function in Biochemistry
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
MICR*2020	[0.50]	Microbial Interactions and Associations
MICR*2030	[0.50]	Microbial Growth
2.00 credits from	1:	

BIOL*3050	[0.50]	Mycology
FOOD*3230	[0.75]	Food Microbiology
FOOD*3260	[0.50]	Industrial Microbiology
MBG*2020	[0.50]	Introductory Molecular Biology
MBG*3080	[0.50]	Bacterial Genetics
MICR*3120	[0.50]	Systematic Bacteriology
MICR*3220	[0.50]	Plant Microbiology
MICR*3230	[0.50]	Immunology I
MICR*3260	[0.50]	Microbial Adaptation and Development
MICR*3270	[0.50]	Microbial Cell Biology
MICR*3330	[0.50]	World of Viruses
MICR*4140	[0.50]	Soil Microbiology and Biotechnology
MICR*4180	[0.50]	Microbial Processes in Environmental Management
1.00 credits from:		
BIOL*4050	[0.50]	Advanced Eukaryotic Microbiology
MCB*4080	[0.50]	Applied Microbiology and Biochemistry
MICR*4010	[0.50]	Pathogenic Bacteriology
MICR*4230	[0.50]	Immunology II
MICR*4280	[0.50]	Microbial Ecology
MICR*4330	[0.50]	Molecular Virology
MICR*4430	[0.50]	Medical Virology
Microbiology	(Со-ор) (	MICR:C)

### Department of Molecular and Cellular Biology, College of Biological Science

Students in the Major in Microbiology program may take the Co-op option. Students do not begin their first work term until they have completed semester 3 and courses BIOL\*1030, BIOL\*1040 and MICR\*2030. 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 may require an additional semester to meet all the program requirements. Students should plan their programs in consultation with the faculty advisor.

### Stream A

### Semester 1 - Fall

BIOL*1030	[0.50]	Biology I
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		
Students who are a	admitted to	the Co-op Program but deficient in one OAC/4U course in
Biology, Chemistr	ry or Physic	s must take the equivalent introductory course in first
semester. The first	t-year scien	ce core in that subject should be completed by Semester 3.
Semester 2 - W	inter	
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
COOP*1100	[0.00]	Introduction to Co-operative Education
PHYS*1080	[0.50]	Physics for Life Sciences
One mathematics/	computer co	purse from:
CIS*1200	[0.50]	Introduction to Computing
CIS*1500	[0.50]	Introduction to Programming
MATH*2080	[0.50]	Elements of Calculus II
0.50 electives		
Summer Semes	ster	
No academic sem	ester or wor	k term

Semester 3 - Fall

BIOC*2580	[0.50]	Introductory Biochemistry
MBG*2000	[0.50]	Introductory Genetics
MICR*2020	[0.50]	Microbial Interactions and Associations
MICR*2030	[0.50]	Microbial Growth
0.50 electives		
Winter Semes	ster	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - S	Summer	
BIOL*2210	[0.50]	Introductory Cell Biology
MBG*2020	[0.50]	Introductory Molecular Biology
STAT*2040	[0.50]	Statistics I
1.00 electives		

#### Semester 5 - Fall

BIOC\*3560

MBG\*3080

MICR\*3120

MICR\*3230

MICR\*3330

[0.50] Structure and Function in Biochemistry [0.50] **Bacterial Genetics** [0.50] Systematic Bacteriology [0.50] Immunology I [0.50] World of Viruses

330			
Semester 6 - Winter			
BIOL*3050	[0.50]	Mycology	
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I	
MICR*3260	[0.50]	Microbial Adaptation and Development	
0.75 electives	[0.50]	Microbial / Kaptation and Development	
Summer - Sem	ester		
COOP*2000	[0.00]	Co-op Work Term II	
Fall Semester	[]		
COOP*3000	[0.00]	Co-op Work Term III	
Semester 7 - W		1	
2.50 electives or r	estricted ele	ectives which can include MICR*4310	
Summer Semes	ster		
COOP*4000	[0.00]	Co-op Work Term IV (optional)	
Semester 8 - Fa			
		ectives which can include MICR*4320	
Stream B	estineted ere		
Semester 1 - Fa	all		
BIOL*1030	[0.50]	Biology I	
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	(		
Students who are	admitted to	the Co-op Program but deficient in one OAC/4U course in	
Biology, Chemist	ry or Physic	s must take the equivalent introductory course in first	
semester. The firs	t-year scien	ce core in that subject should be completed by Semester 3.	
Semester 2 - W	inter		
BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
COOP*1100	[0.00]	Introduction to Co-operative Education	
PHYS*1080	[0.50]	Physics for Life Sciences	
One mathematics/	computer co	ourse from:	
CIS*1200	[0.50]	Introduction to Computing	
CIS*1500	[0.50]	Introduction to Programming	
MATH*2080	[0.50]	Elements of Calculus II	
0.50 electives			
Summer Semes	ster		
No academic sem	ester or wor	k term	
Semester 3 - Fa	all		
BIOC*2580	[0.50]	Introductory Biochemistry	
MBG*2000	[0.50]	Introductory Genetics	
MICR*2020	[0.50]	Microbial Interactions and Associations	
MICR*2030	[0.50]	Microbial Growth	
0.50 electives			
Winter Semest	er		
COOP*1000	[0.00]	Co-op Work Term I	
Semester 4 - Su	ımmer		
BIOL*2210	[0.50]	Introductory Cell Biology	
MDC*2020	[0.50]	Introductory Melecular Dielogy	

0.50 Introductory Cell Biology MBG\*2020 [0.50] Introductory Molecular Biology STAT\*2040 [0.50] Statistics I 1.00 electives Fall Semester

COOP\*2000 [0.00] Co-op Work Term II Semester 5 - Winter BIOC\*3560 [0.50] Structure and Function in Biochemistry BIOL\*3050 Mycology [0.50] MBG\*3350 Laboratory Methods in Molecular Biology I [0.75] [0.50] World of Viruses MICR\*3330 0.25 electives

#### Summer Semester

COOP\*3000 [0.00] Semester 6 - Fall MICR\*3120 [0.50] MICR\*3230 [0.50] MBG\*3080 [0.50] 1.00 electives Semester 7 - Winter MICR\*3260 [0.50]

Microbial Adaptation and Development 2.00 electives or restricted electives which can include MICR\*4310

Co-op Work Term III

Systematic Bacteriology

Immunology I

**Bacterial Genetics** 

Summer Semester COOP\*4000 [0.00] Co-op Work Term IV (optional)

### Semester 8 - Fall

2.50 electives or restricted electives which can include MICR\*4320

### **Elective and Restricted Elective Credits**

2.00 elective credits must be from the Arts and Social Sciences.

2.50 restricted elective credits of which 1.00 credit must be at the 4000 level. 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 restricted elective credit).

### **Restricted Electives**

BIOC*4540	[0.50]	Enzymology
BIOC*4580	[0.50]	Membrane Biochemistry
BIOL*4050	[0.50]	Advanced Eukaryotic Microbiology
FOOD*3230	[0.75]	Food Microbiology
FOOD*3260	[0.50]	Industrial Microbiology
FOOD*4400	[0.50]	Dairy Processing
MCB*4080	[0.50]	Applied Microbiology and Biochemistry
MICR*3220	[0.50]	Plant Microbiology
MICR*3270	[0.50]	Microbial Cell Biology
MICR*4010	[0.50]	Pathogenic Bacteriology
MICR*4230	[0.50]	Immunology II
MICR*4240	[0.50]	Topics in Microbiology
MICR*4280	[0.50]	Microbial Ecology
MICR*4310	[1.00]	Research Project I
MICR*4320	[1.00]	Research Project II
MICR*4330	[0.50]	Molecular Virology
MICR*4430	[0.50]	Medical Virology
One of:		
MICR*4140	[0.50]	Soil Microbiology and Biotechnology
MICR*4180	[0.50]	Microbial Processes in Environmental Management
NC 1 1 D1		

### Molecular Biology and Genetics (MBG)

### Department of Molecular and Cellular Biology, College of Biological Science

The B.Sc. program with a Major in Molecular Biology and Genetics is a broadly based program in genetics including related areas of cell and molecular biology. In consultation with the Faculty Advisor, students 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 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor.

### Major (Honours Program)

A total of 20.00 credits is required to complete the major.

Semester 1		
BIOL*1030	[0.50]	Biology I
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 ele	ectives
Students who are a	dmitted def	icient in one OAC/4U course in Biology, Chemistry or
		ent introductory course in first semester. The first-year
science core in that	t subject sho	ould be completed by Semester 3.
Semester 2		
BIOL*1040	[0.50]	Biology II
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
0.50 Arts or Social	Science ele	ectives
Semester 3		
BIOC*2580	[0.50]	Introductory Biochemistry
BIOL*2210	[0.50]	Introductory Cell Biology
MBG*2000	[0.50]	Introductory Genetics
STAT*2040	[0.50]	Statistics I
0.50 electives or re	stricted elec	ctives
Semester 4		
MBG*2020	[0.50]	Introductory Molecular Biology
MICR*2030	[0.50]	Microbial Growth
STAT*2050	[0.50]	Statistics II
1.00 electives or re	stricted elec	ctives
Semester 5		
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
1.75 electives or re	stricted elec	ctives

### Semester 6

2.50 electives or restricted electives

### Semester 7\*

MBG\*4500 Research Project in Molecular Biology and Genetics I [1.00]1.50 electives or restricted electives

### Semester 8\*

MBG\*4510 [1.00] Research Project in Molecular Biology and Genetics II 1.50 electives or restricted electives

\*instead of the 2 semester sequence of MBG\*4500 / MBG\*4510 students may choose to take MBG\*4600 and 1.50 subject area electives

Note: Students are reminded that AT LEAST 2.00 credits must be at the 4000 level in order to complete the major.

Arts and Social Science Electives - 2.00 credits

#### **Restricted Electives**

1. Ecology Elective	- 0.50 credit	ts
BIOL*2060	[0.50]	Ecology
BIOL*3110	[0.50]	Population Ecology
BOT*2050	[0.50]	Plant Ecology
MICR*4280	[0.50]	Microbial Ecology
2. Arts and Social So	cience Elect	ives - 2.00 credits
3. Physiology Electiv	ve - 0.50 cre	edits
BIOM*3100	[0.50]	Mammalian Physiology I
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 Ele	ctives - 3.	00 credits (4.50 if MBG*4600 is taken instead of
MBG*4500 and N	ABG*4510)	
BIOC*3560	[0.50]	Structure and Function in Biochemistry
BIOL*3300	[0.50]	Applied Bioinformatics
MBG*3000	[0.50]	Population Genetics
MBG*3050	[0.50]	Human Genetics
MBG*3060	[0.50]	Quantitative Genetics
MBG*3080	[0.50]	Bacterial Genetics
MBG*3200	[0.50]	Genetics: Our Uncertain Heritage
MBG*3360	[0.75]	Laboratory Methods in Molecular Biology II
MBG*3600	[0.25]	Introduction to Genomics
MBG*4030	[0.50]	Animal Breeding Methods
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
MCB*4010	[0.50]	Advanced Cell Biology
MCB*4050	[0.50]	Protein and Nucleic Acid Structure
MICR*3330	[0.50]	World of Viruses
MICR*4330	[0.50]	Molecular Virology
One of:		
MBG*4040	[0.50]	Genetics and Molecular Biology of Development
MBG*4070	[0.50]	Genetics and Molecular Biology of Development

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*2000	[0.50]	Introductory Genetics
MBG*2020	[0.50]	Introductory Molecular Biology
4.00 credits from:		
BIOC*3560	[0.50]	Structure and Function in Biochemistry
BIOL*3300	[0.50]	Applied Bioinformatics
MBG*3000	[0.50]	Population Genetics
MBG*3050	[0.50]	Human Genetics
MBG*3060	[0.50]	Quantitative Genetics
MBG*3080	[0.50]	Bacterial Genetics
MBG*3200	[0.50]	Genetics: Our Uncertain Heritage
MBG*3600	[0.25]	Introduction to Genomics
MBG*4030	[0.50]	Animal Breeding Methods
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
MCB*4010	[0.50]	Advanced Cell Biology
MCB*4050	[0.50]	Protein and Nucleic Acid Structure
MICR*3330	[0.50]	World of Viruses

One of: MBG\*4040 [0.50] Genetics and Molecular Biology of Development MBG\*4070 [0.50] Genetics and Molecular Biology of Development **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: BIOM\*3000 [0.50] Mammalian Neuroanatomy CIS\*1500 [0.50] Introduction to Programming PHYS\*2030 [0.50] **Biophysics of Excitable Cells** PSYC\*2410 [0.50] Behavioural Neuroscience I ZOO\*2100 [0.50] Developmental Biology and at least 0.50 from: BIOM\*3100 [0.50] Mammalian Physiology I HK\*3940 [1.25] Human Physiology ZOO\*3200 [0.50] Comparative Animal Physiology I and 1.00 from an independent study project in the neurosciences, selected from a combination of: BIOM\*4510 [1.00] Research in Biomedical Sciences II BIOM\*4521/2 [1.00] Research in Biomedical Sciences II HK\*4230 Advanced Study in Human Biology and Nutritional [0.50] Sciences HK\*4360 [1.00] Research in Human Biology and Nutritional Sciences HK\*4371/2 [1.00] Research in Human Biology and Nutritional Sciences II IBIO\*4500 Research in Integrative Biology I [0.75] and 1.00 from: ad of BIOM\*3090 [0.50] Principles of Pharmacology HK\*3100 [0.50] Neuromuscular Physiology [0.50] Fundamentals of Nutrition NUTR\*3210 PATH\*3610 [0.50] Principles of Disease PSYC\*2390 [0.50] Principles of Sensation and Perception

Molecular Virology

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#### ZOO\*4470 [0.50] Comparative Endocrinology Nutritional and Nutraceutical Sciences (NANS)

[0.50]

[0.50]

[0.50]

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.

Neurochemical Basis of Behaviour

Current Issues in Neuropsychology

Behavioural Neuroscience II

If lacking the fundamentals of word processing, spread sheet use and data management, the student should select CIS\*1200 as early in the program as possible.

#### Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A total of 20.00 credits is required, including 2.00 credits from Arts and Social Sciences courses.

#### Semester 1

STAT\*2040

[0.50]

0.50 electives or restricted electives

PSYC\*3030

PSYC\*3040

PSYC\*3410

MICR\*4330

[0.50]

Semester 1		
BIOL*1030	[0.50]	Biology I
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 el	lectives
Students who are	admitted d	eficient in one OAC/4U course in Biology, Chemistry or
Physics must tak	e the equiva	lent introductory course in first semester. The first-year
science core in th	nat subject s	hould be completed by Semester 3.
Semester 2		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
PHYS*1080	[0.50]	Physics for Life Sciences
1.00 electives or	restricted el	lectives
Semester 3		
BIOL*2210	[0.50]	Introductory Cell Biology
BIOC*2580	[0.50]	Introductory Biochemistry
MBG*2000	[0.50]	Introductory Genetics
1.00 electives		
Semester 4		
BIOC*3560	[0.50]	Structure and Function in Biochemistry
MBG*2020	[0.50]	Introductory Molecular Biology
NUTR*3210	[0.50]	Fundamentals of Nutrition

Statistics I

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### Semester 5

HK\*3940 [1.25] Human Physiology NUTR\*3330 Micronutrients, Phytochemicals and Health [0.50] NUTR\*3390 [0.50] Applied Nutritional and Nutraceutical Sciences I 0.25 or 0.50 electives or restricted electives Semester 6 BIOM\*3090 [0.50] Principles of Pharmacology

NUTR\*4090 [0.50] Functional Foods and Nutraceuticals NUTR\*4330 [0.50] Applied Nutritional and Nutraceutical Sciences II PATH\*3610 [0.50] Principles of Disease 0.50 electives or restricted electives

### Semester 7

NUTR*4210	[0.50]	Nutrition, Exercise and Energy Metabolism	
NUTR*4510	[0.50]	Toxicology, Nutrition and Food	
1.50 electives or restricted electives			

### Semester 8

2.50 electives or restricted electives

### **Restricted Electives**

Students must complete 2.00 credits from Arts and Social Sciences courses and 1.00 credits from among the following:

BIOM*4420	[0.50]	Research Modules
HK*4230	[0.50]	Advanced Study in Human Biology and Nutritional
		Sciences
HK*4360	[1.00]	Research in Human Biology and Nutritional Sciences
HK*4371/2	[1.00]	Research in Human Biology and Nutritional Sciences II
HK*4410	[0.50]	Research Concepts
HK*4460	[0.50]	Regulation of Human Metabolism
NUTR*4200	[0.50]	Nutrition and Immune Function
NUTR*4320	[0.50]	Nutrition and Metabolic Control of Disease
NUTR*4360	[0.50]	Current Issues in Nutrigenomics

Nutritional Sciences (NSCI)

### Department of Human Health and Nutritional Sciences, College of Biological Science

### Minor (Honours Program)

A minor in Nutritional Sciences requires 5.00 credits as follows:

		1 1
BIOC*2580	[0.50]	Introductory Biochemistry
NUTR*2150	[0.50]	Introduction to Nutritional and Food Sciences
NUTR*3210	[0.50]	Fundamentals of Nutrition
NUTR*3330	[0.50]	Micronutrients, Phytochemicals and Health
STAT*2040	[0.50]	Statistics I
At least 0.50 cred	its from:	
BIOM*3100	[0.50]	Mammalian Physiology I
HK*3940	[1.25]	Human Physiology
ZOO*3200	[0.50]	Comparative Animal Physiology I
and 2.00 credits fi	rom:	
ANSC*3170	[0.50]	Nutrition of Fish and Crustacea
ANSC*3180	[0.50]	Wildlife Nutrition
ANSC*4160	[0.25]	Beef Cattle Nutrition
ANSC*4170	[0.25]	Dairy Cattle Nutrition
ANSC*4180	[0.25]	Poultry Nutrition
ANSC*4190	[0.25]	Swine Nutrition
ANSC*4500	[0.25]	Horse Nutrition
ANSC*4510	[0.25]	Pet Nutrition
HK*4230	[0.50]	Advanced Study in Human Biology and Nutritional
		Sciences
HK*4360	[1.00]	Research in Human Biology and Nutritional Sciences
HK*4371/2	[1.00]	Research in Human Biology and Nutritional Sciences
		II
NUTR*3390	[0.50]	Applied Nutritional and Nutraceutical Sciences I
NUTR*4090	[0.50]	Functional Foods and Nutraceuticals
NUTR*4200	[0.50]	Nutrition and Immune Function
NUTR*4210	[0.50]	Nutrition, Exercise and Energy Metabolism
NUTR*4320	[0.50]	Nutrition and Metabolic Control of Disease
NUTR*4360	[0.50]	Current Issues in Nutrigenomics
NUTR*4510	[0.50]	Toxicology, Nutrition and Food
Physical Scie	nce (PSC)	[]

### 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\*1030, BIOL\*1040)

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 or STAT\*2100)

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

BIOL*1030	[0.50]	Biology I
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

<sup>0.50</sup> Arts or Social Science electives

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2

BIOL*1040	[0.50]	Biology II
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
0.50 Arts or Social	l Science el	ectives
Company 2		

#### 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

### STAT\*2040

Semester 4

1.50 science electives from the approved list of B.Sc. science electives\* 0.50 electives

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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)

### Semester 5 to 8

Total of 2.50 credits per semester including at least 2.00 science electives.

Sufficient courses at the 3000 or 4000 level must be selected in Semesters 5 through 8 to total 6.00 credits in science at the 3000 or 4000 level with at least 2.00 physical science at the 4000 level.

\*approved course lists are available in the Dean's Office, College of Physical and Engineering Science and on the world wide web at http://www.cpes.uoguelph.ca/BSc/approved\_electives.htm

### 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 of these credits must be obtained from the completion of Arts and/or Social Science courses.

Semester 1*		
BIOL*1030	[0.50]	Biology I
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

Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

#### Semester 2\*

BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
MATH*1210	[0.50]	Calculus II
PHYS*1010	[0.50]	Introductory Electricity and Magnetism
0.50 Arts or Soc	ial Science e	electives

\* 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

Semester 5		
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 electi	ves	
0.50 Social Scie	ence electiv	res
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
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		
Semester 7+		
PHYS*4180	[0.50]	Advanced Electromagnetic Theory
PHYS*4500	[0.50]	Advanced Physics Laboratory
One of:		
PHYS*4240	[0.50]	Statistical Physics II
0.50 electives		
1.00 electives **		

PHYS\*4510 [0.50] Advanced Physics Project

2.00 electives \*\*

+ students going on to graduate school in physics should take PHYS\*4120, PHYS\*4130, PHYS\*4150, PHYS\*4240

\*\* For the electives chosen in Sem 7 and 8, at least 1.50 credits must be from lists A and B below. At least 1.00 credits must be from list A. Substitutions of courses in list B by other 3000 or 4000 level courses must be approved by the Physics Faculty Advisor.

### List A

PHYS*4120	[0.50]	Atomic and Molecular Physics
PHYS*4130	[0.50]	Subatomic Physics
PHYS*4150	[0.50]	Solid State Physics
List B		
GEOL*3060	[0.50]	Groundwater
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 Policy Formation and Administration
REXT*3100	[0.50]	Teaching and Learning in Non-Formal Education
SOIL*3600	[0.50]	Remote Sensing
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3510	[0.50]	Environmental Risk Assessment

### **Minor (Honours Program)**

A minor in Physics requires 5.00 credits in physics courses including at least 1.00 at the 3000 or 4000 level.

The following four courses, with a weight of 0.75 each, are required:

PHYS*2440	[0.75]	Mechanics I	
PHYS*2450	[0.75]	Mechanics II	
PHYS*2460	[0.75]	Electricity and Magnetism I	
PHYS*2470	[0.75]	Electricity and Magnetism II	
The following courses are strongly recommended:			
PHYS*1000	[0.50]	An Introduction to Mechanics	
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	
Physics (Co-op) (PHYS:C)			

#### Department of Physics, College of Physical and Engineering Science

Since some of the required courses are not offered every semester, students entering the Major in Physics (Co-op) should plan their program in consultation with the Department of Physics Faculty Advisor. To graduate from the Co-op program a minimum of 4 successfully completed work terms (COOP\*1000, COOP\*2000, COOP\*3000, COOP\*4000) is normally required.

#### Major (Honours Program)

This major requires the completion of 21.25 credits.

#### Semester 1 - Fall

The program for the first semester is the same as the Major in Physics (regular) program. **Semester 2 - Winter** 

BIOL*1040	[0.50]	Biology II
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:		
CIS*2500	[0.50]	Intermediate Programming
0.50 Arts or Soc	cial Science	electives*
Semester 3 - Fa	11	
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 Soc	cial Science	electives*
Winter Semeste	er	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - Su	mmer	
MATH*2170	[0.50]	Differential Equations I
PHYS*2260	[0.50]	Quantum Physics
PHYS*3240	[0.50]	Statistical Physics I
One of:		
CIS*2520	[0.50]	Data Structures

Last Revision: January 28, 2008

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0.50 electives*			Semester 4		
0.50 electives*			BIOL*2210	[0.50]	Introductory Cell Biology
Fall Semester			BOT*3310	[0.50]	Plant Growth and Development
COOP*2000	[0.00]	Co-op Work Term II	ENVB*2040	[0.50]	Plant Health and the Environment
Semester 5 - Wi	inter	-	MBG*2020	[0.50]	Introductory Molecular Biology
PHYS*2450	[0.75]	Mechanics II	One of:		
PHYS*2470	[0.75]	Electricity and Magnetism II	0.50 electives		
PHYS*3220	[0.50]	Waves and Optics	0.50 Arts and S	Social Science	ce electives
One of:			Semester 5		
STAT*2040	[0.50]	Statistics I	BOT*3410	[0.50]	Plant Anatomy
STAT*2120	[0.50]	Probability and Statistics for Engineers	STAT*2040	[0.50]	Statistics I
MATH*3260	[0.50]	Complex Analysis	0.50 Arts or Socia	al Science el	ectives
0.50 electives			1.00 electives **		
0.50 electives			Semester 6		
Summer Semes	ter		BOT*3710	[0.50]	Classification and Morphology of Seed Plants
COOP*3000	[0.00]	Co-op Work Term III	2.00 electives **		
Semester 6 - Fa	<b>ll</b> +		Semester 7		
MATH*3100	[0.50]	Differential Equations II	2.50 electives **		
PHYS*3100	[0.75]	Electronics	Semester 8		
PHYS*3230	[0.50]	Quantum Mechanics I	BOT*4380	[0.50]	Metabolism in the Whole Life of Plants
1.00 electives **			2.00 electives **	[0.50]	Metabolishi in the Whole Ene of Flants
Semester 7 - Wi	inter +			led that 0.50	Arts or Social Science electives be chosen from:
PHYS*3400	[0.50]	Advanced Mechanics	ECON*1100	[0.50]	Introductory Macroeconomics
PHYS*3510	[0.50]	Intermediate Laboratory	ENGL*1200	[0.50]	Reading the Contemporary World
PHYS*4040	[0.50]	Quantum Mechanics II	GEOG*1220	[0.50]	Human Impact on the Environment
One of:			HIST*1250	[0.50]	Science and Society Since 1500
MATH*3170	[0.50]	Partial Differential Equations and Special Functions	PHIL*1000	[0.50]	Introductory Philosophy: Major Texts
0.50 electives**	¢		POLS*1400	[0.50]	Issues in Canadian Politics
0.50 electives**			PSYC*1100	[0.50]	Principles of Behaviour
Summer Semes			Electives**		
COOP*4000	[0.00]	Co-op Work Term IV	1. One of:		
Semester 8 - Fa	<b>ll</b> +		BIOL*206	50 [0.5	50] Ecology
PHYS*4180	[0.50]	Advanced Electromagnetic Theory	BOT*2050		
PHYS*4240 or 0.5	50 electives	3	CROP*21		
PHYS*4500	[0.50]	Advanced Physics Laboratory	2. A minimum o	of 2.50 credi	ts must be from the following list of preferred electiv
1.00 electives**			BIOL*3300	[0.50]	<b>- -</b>
		or Social Science electives in this Major	MBG*4300	[0.50]	
+ and ** refer to the	ne notes in	the Major in Physics program	PBIO*3110	[0.50]	
<b>Plant Biology</b>	(PBIO)		PBIO*3750	[0.50]	Plant Tissue Culture
		Biology, College of Biological Science	PBIO*4000	[0.50]	· · · · · · · · · · · · · · · · · · ·
-	-	tal Biology, Ontario Agricultural College	DD10+1100	F0 <b>F</b> 03	Interactions
-		ilture, Ontario Agricultural College	PBIO*4100	[0.50]	
-	-		PBIO*4150 PBIO*4530	[0.50] [0.50]	· · ·
Major (Honou	irs Prog	ram)	PBIO*4530 PBIO*4750	[0.50]	
		in Semester 1 or any semester thereafter. A student wishing			ts must be from the following list:
to declare the majo	or must con	sult the Faculty Advisor.	BIOL*3050	[0.50]	-
a			DIOL . 2020	[0.50]	Mycology

#### Semester 1

BIOL*1030	[0.50]	Biology I	
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 admitted deficient in one OAC/4U course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

Sei	me	ster	- 4

BIOL*1040	[0.50]	Biology II
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 Socia	l Science el	ectives*
Semester 3		
AGR*2470	[0.50]	Introduction to Plant Agriculture
BIOC*2580	[0.50]	Introductory Biochemistry
BOT*2100	[0.50]	Life Strategies of Plants
MBG*2000	[0.50]	Introductory Genetics
One of:		
0.50 electives		

0.50 Arts and Social Science electives

ives: obe opment BIOL\*3050 [0.50]Mycology CROP\*3300 [0.50] Grain Crops CROP\*3310 [0.50] Protein and Oilseed Crops CROP\*4240 [0.50] Weed Science ENVB\*2030 [0.50] Current Issues in Forest Science ENVB\*3210 [0.50] Plant Pathology ENVB\*4070 [0.50] Biological and Cultural Control of Plant Diseases ENVB\*4420 [0.50] Problems in Environmental Biology ENVB\*4780 [0.50] Forest Ecology HORT\*3010 [0.50] Annual, Perennial and Indoor Plants - Identification and Use HORT\*3230 Plant Propagation [0.50] HORT\*3260 [0.50] Woody Plants Culture of Plants HORT\*3340 [0.50] HORT\*4300 [0.50] Postharvest Physiology HORT\*4420 [0.50] Fruit Crops IBIO\*4500 [0.75] Research in Integrative Biology I IBIO\*4510 [0.75] Research in Integrative Biology II MBG\*3000 [0.50] Population Genetics MBG\*3100 [0.50] Plant Genetics MBG\*4160 [0.50] Plant Breeding MICR\*3220 [0.50] Plant Microbiology 4. 1.50 Arts and Social Science electives 5. A minimum of 6.00 science credits must be completed at the 3000 and 4000 levels with a minimum 2.00 credits at the 4000 level. Minor (Honours Program)

A minor in Plant Biology requires 5.00 credits in the Plant Biology program chosen in consultation with the faculty advisor. The courses will include:

BOT*3310	[0.50]	Plant Growth and Development
BOT*4380	[0.50]	Metabolism in the Whole Life of Plants
ENVB*2040	[0.50]	Plant Health and the Environment
One of:		
AGR*2470	[0.50	)] Introduction to Plant Agriculture
BOT*2100	[0.50	)] Life Strategies of Plants
One of:		
BOT*3410	[0.50	)] Plant Anatomy
BOT*3710	[0.50	)] Classification and Morphology of Seed Plants
One of:		
BIOL*2060	[0.50	)] Ecology
BOT*2050	[0.50	)] Plant Ecology
CROP*2110	[0.50	)] Crop Ecology
2.00 credits from l	list of prefer	red electives in PBIO Major

#### Plant Biotechnology (PBTC)

Department of Molecular and Cellular Biology, College of Biological Sciences Department of Environmental Biology, Ontario Agricultural College Department of Plant Agriculture, 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*1030	[0.50]	Biology I
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 Soci	al Science	electives
Students who are admitted deficient in one OAC/4U course in Biology. Ch		

Biology II

Chemistry or Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3.

### Semester 2 BIOI \*10/0 [0 50]

BIOL*1040	[0.50]	Biology II
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
0.50 Arts or Socia	l Science el	ectives
Semester 3		
BIOC*2580	[0.50]	Introductory Biochemistry
BIOL*2210	[0.50]	Introductory Cell Biology
MBG*2000	[0.50]	Introductory Genetics
One of:	[]	· · · · · · · · · · · · · · · · · · ·
AGR*2470	[0.50]	Introduction to Plant Agriculture
BOT*2100	[0.50]	Life Strategies of Plants
0.50 electives or r	estricted ele	
Semester 4		
BOT*3310	[0.50]	Plant Growth and Development
MBG*2020	[0.50]	Introductory Molecular Biology
MICR*2020	[0.50]	Microbial Growth
STAT*2040	[0.50]	Statistics I
0.50 electives or r		
Semester 5	estricted ele	cuves
MBG*3100	[0.50]	Plant Genetics
PBIO*3750	[0.50]	Plant Tissue Culture
1.50 electives or r	estricted ele	ectives
Semester 6		
MBG*3350	[0.75]	Laboratory Methods in Molecular Biology I
MBG*4300	[0.50]	Plant Molecular Genetics
One of:		
PBIO*4150	[0.50]	Molecular and Cellular Aspects of Plant Development
PBIO*4750	[0.50]	Genetic Engineering of Plants
0.75 electives or r	estricted ele	ectives
Semester 7		
MBG*4500	[1.00]	Research Project in Molecular Biology and Genetics I
PBIO*4000	[0.50]	Molecular and Cellular Aspects of Plant-Microbe
1010 4000	[0.50]	Interactions
1.00 electives or r	estricted ele	
Semester 8		
BOT*4380	[0.50]	Matcheliam in the Whole Life of Diants
	[0.50]	Metabolism in the Whole Life of Plants
One of:	IO 501	Malassian and Calladar Assasts of Plant D. J.
PBIO*4150	[0.50]	Molecular and Cellular Aspects of Plant Development

Genetic Engineering of Plants

#### 1.50 electives or restricted electives **Restricted Electives** List A

A minimum of 2.00 credits must be taken from the following list:

		e
BIOL*3300	[0.50]	Applied Bioinformatics
BOT*3410	[0.50]	Plant Anatomy
MBG*3200	[0.50]	Genetics: Our Uncertain Heritage
MBG*3600	[0.25]	Introduction to Genomics
MBG*4510	[1.00]	Research Project in Molecular Biology and Genetics II
MCB*4010	[0.50]	Advanced Cell Biology
MCB*4050	[0.50]	Protein and Nucleic Acid Structure
MICR*3220	[0.50]	Plant Microbiology
MICR*3230	[0.50]	Immunology I
MICR*3330	[0.50]	World of Viruses
MICR*4230	[0.50]	Immunology II
PBIO*3110	[0.50]	Crop Physiology
PBIO*4600	[0.50]	Plant Environment Interaction and Stress
Note: Students an	re strongly r	ecommended to take PBIO*4310.

#### List B

A minimum of 1.00 credits must be taken from the following list:

CROP*2110	[0.50]	Crop Ecology
CROP*3300	[0.50]	Grain Crops
CROP*3310	[0.50]	Protein and Oilseed Crops
ENVB*3210	[0.50]	Plant Pathology
HORT*3230	[0.50]	Plant Propagation
HORT*4300	[0.50]	Postharvest Physiology
HORT*4420	[0.50]	Fruit Crops
MBG*4160	[0.50]	Plant Breeding

### Minor (Honours Program)

A minor in Plant Biotechnology requires 5.00 credits in the Plant Biotechnology Program chosen in consultation with the Faculty Advisor. The courses include:

enoben m eonbait	action with the	
MBG*2020	[0.50]	Introductory Molecular Biology
PBIO*3750	[0.50]	Plant Tissue Culture
PBIO*4750	[0.50]	Genetic Engineering of Plants
One of:		
AGR*2470	[0.50]	Introduction to Plant Agriculture
BOT*2100	[0.50]	Life Strategies of Plants
1.50 credits from	Restricted E	lectives List A (listed under Major above)
0.50 credits from	Restricted E	lectives List B (listed under Major above)
1.00 credits from	the followin	g courses:
BOT*3310	[0.50]	Plant Growth and Development
BOT*4380	[0.50]	Metabolism in the Whole Life of Plants
MBG*3100	[0.50]	Plant Genetics
MBG*4300	[0.50]	Plant Molecular Genetics
PBIO*4000	[0.50]	Molecular and Cellular Aspects of Plant-Microbe
		Interactions
PBIO*4150	[0.50]	Molecular and Cellular Aspects of Plant Development
Psychology (	PSYC)	

#### Department of Psychology, College of Social and Applied Human Sciences

The B.Sc. Major in Psychology offers an opportunity for students to develop interests within learning, perception, cognition, and physiological psychology from a sound base in physical and biological sciences. Students primarily interested in other areas within psychology should consult the schedule of studies for the Bachelor of Arts program. Psychology courses in the above focuses may also be studied via the B.A. program.

#### Note on Honours Courses

Courses marked (H) are designed for students in a psychology honours program, the Information Systems and Human Behaviour program, the Developmental Psychology Minor program, the Educational Psychology Minor program, the Organizational Behaviour Minor program, the Social Psychology program, the Cognitive Neuropsychology Minor program, or Human Resources Management major of the Bachelor of Commerce program. Students in other programs wishing to take these courses must obtain the permission of the instructors concerned. Unless otherwise specified, all other courses may be taken by general, honours, and students from other programs, providing the prerequisites are met. Courses designated with (H) are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology, or registration in either the HRM Major or ISHB Major.

#### Major (Honours Program)

Semester 1	
BIOL*1030	

BIOL*1030	[0.50]	Biology I
CHEM*1040	[0.50]	General Chemistry I
MATH*1080	[0.50]	Elements of Calculus I
PHYS*1070	[0.50]	Introductory Physics for Life Sciences
One of: *		

[0.50]

PBIO\*4750

PSYC*1100	[0.50]	Principles of Behaviour	
PSYC*1200	[0.50]	Dynamics of Behaviour	
Students who are ad	dmitted defie	cient in one OAC/4U course in Biology, Chemistry or	
Physics must take the equivalent introductory course in first semester. The first-year			
science core in that subject should be completed by Semester 3.			

science core in tha	t subject sh	ould be completed by Semester 3.
Semester 2		
BIOL*1040	[0.50]	Biology II
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
One of: *		
PSYC*1100	[0.50]	Principles of Behaviour
PSYC*1200	[0.50]	Dynamics of Behaviour
Semester 3		
One of:		
PSYC*2330	[0.50]	Principles of Learning
PSYC*2410	[0.50]	Behavioural Neuroscience I
One of:	FO 501	
PSYC*2390 PSYC*2650	[0.50] [0.50]	Principles of Sensation and Perception Cognitive Psychology
One of:	[0.50]	Cognitive i sychology
PSYC*2010	[0.50]	Quantification in Psychology
STAT*2040	[0.50]	Statistics I
1.00 electives **		
Semester 4		
PSYC*2360	[0.50]	Introductory Research Methods
PSYC*3320	[0.50]	Statistical Principles in Psychological Research
0.50 Psychology c	ore (PSYC	*2330, PSYC*2390, PSYC*2410, PSYC*2650)
0.50 electives**		
One of:		
PSYC*2310	[0.50]	Introduction to Social Psychology
PSYC*2450 PSYC*2740	[0.50]	Introduction to Developmental Psychology
Semester 5	[0.50]	Personality
PSYC*3370	[0.50]	English and Design and Analysis
2.00 electives **	[0.50]	Experimental Design and Analysis
Semester 6		
	[0.50]	Developical Macaurament
PSYC*3250 PSYC*3380	[0.50] [0.50]	Psychological Measurement Non-experimental Research Methods
1.50 electives **	[0.50]	Non-experimental Research Methods
Semester 7***		
2.50 electives **		
Semester 8***		
2.50 electives**		
		pleted prior to semester 3, PSYC*1200 prior to semester 4
		nust satisfy the following requirements:
i. 1.00 arts and/o	or non-psyc	hology social science credits
ii. 4 credits at the	e 3000 level	1

iii. 2 credits at the 4000 level

- iv. 3.5 Psychology B.Sc. elective credits from List A
- v. 3.5 Non-psychology B.Sc. elective credits (suitable course prefixes are provided in List B)

\*\*\* students planning to enter a graduate program in Psychology are advised to complete PSYC\*4870 and PSYC\*4880 in Semesters 7 and 8, respectively. Note that PSYC\*4370 or PSYC\*4900 must be completed prior to or concurrently with either PSYC\*4870 or PSYC\*4880

Note: 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.

### List A Psychology B.Sc. Electives

PSYC*3030	[0.50]	Neurochemical Basis of Behaviour
PSYC*3040	[0.50]	Current Issues in Neuropsychology
PSYC*3100	[0.50]	Evolutionary Psychology
PSYC*3220	[0.50]	Ergonomics: the Scientific Study of People-System
		Relationships
PSYC*3330	[0.50]	Memory
PSYC*3340	[0.50]	Psycholinguistics
PSYC*3410	[0.50]	Behavioural Neuroscience II
PSYC*3430	[0.50]	Topics in Animal Learning and Cognition
PSYC*3850	[0.50]	Intellectual Disabilities

PSYC*4370	[0.50]	History of Psychology
PSYC*4600	[0.50]	Cognitive Neuroscience
PSYC*4750	[0.50]	Motivation
PSYC*4870	[0.50]	Honours Thesis I
PSYC*4880	[1.00]	Honours Thesis II
PSYC*4900	[0.50]	Psychology Seminar
List B		

List of Approved Science Electives Courses for B.Sc. students, excluding psychology: Courses with the following prefixes are examples of particularly suitable science electives for students in this program: BIOL; BIOM; CIS; ENGG; ENVB; HK; MATH; STAT; ZOO; ENVB.

### Minor (Honours Program)

A minor in Psychology requires 5.00 psychology credits as follows:

r millor in r sychology requires 5.00 psychology credits as follows.			
PSYC*1100	[0.50]	Principles of Behaviour	
PSYC*1200	[0.50]	Dynamics of Behaviour	
PSYC*2360	[0.50]	Introductory Research Methods	
2.00 credits from 2	2000 level p	sychology core courses selected as follows:	
a. 1.50 credits fr	om:		
PSYC*2330	[0.50]	Principles of Learning	
PSYC*2390	[0.50]	Principles of Sensation and Perception	
PSYC*2410	[0.50]	Behavioural Neuroscience I	
PSYC*2650	[0.50]	Cognitive Psychology	
b. 0.50 credits fr	om:		
PSYC*2310	[0.50]	Introduction to Social Psychology	
PSYC*2450	[0.50]	Introduction to Developmental Psychology	
PSYC*2740	[0.50]	Personality	
1.00 credits from courses in List A			
One of:			
PSVC*2010	[0 50]	Quantification in Psychology	

PSYC*2010	[0.50]	Quantification in Psychology
STAT*2040	[0.50]	Statistics I
Statistics (ST)		

#### Statistics (STAT)

#### Department of Mathematics and Statistics, College of Physical and Engineering Science

Students in this program will acquire the ability to use modern statistical methods in a variety of applications, the theoretical understanding necessary to develop statistical methods to meet new needs and a solid preparation for further study. As well, since statistical computing is a fundamental tool for the application and development of modern statistical methods, students will develop skills in computer applications programming using such high-level languages as SAS and S-PLUS.

Students may enter this major in any semester. A student wishing to declare the major must consult the Faculty Advisor. A total of 20.00 credits is required to complete the major. Required 1000 level courses are listed under Semester 1 and Semester 2 of the recommended Schedule of Studies for Major. At least 8.00 credits in Statistics and Mathematics are required at the 2000 level or above, as follows: MATH\*2130, MATH\*2150, MATH\*2160, MATH\*2200, STAT\*2040, STAT\*2050, STAT\*3100, STAT\*3110, STAT\*3210, STAT\*3240, STAT\*3320. Five other courses (2.50 credits) in Statistics at the 3000 or 4000 level, of which at least four (2.00 credits) must be at the 4000 level. One other course (0.50 credits) in Mathematics or Statistics at the 2000 level or above.

### **Recommended Schedule of Studies for Major (Honours Program)** Semester 1

	Semester 1			
	BIOL*1030	[0.50]	Biology I	
	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	
Students who are admitted deficient in one OAC/4U course in Biology, Chemistry or				
	Physics must take the equivalent introductory course in first semester. The first-year			

science core in that subject should be completed by Semester 3.

### Semester 2

[0.50]	Biology II			
[0.50]	General Chemistry II			
[0.50]	Calculus II			
[0.50]	Introductory Electricity and Magnetism			
Science el	ectives*			
[0.50]	Advanced Calculus I			
[0.50]	Statistics I			
[0.50]	Applied Matrix Algebra			
[0.50]	Linear Algebra I			
0.50 Arts or Social Science electives				
	[0.50] [0.50] [0.50] Science el [0.50] [0.50] [0.50] [0.50]			

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Semester 4		
MATH*2130	[0.50]	Numerical Methods
STAT*2050	[0.50]	Statistics II
1.50 electives**		
Semester 5		
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications
1.00 electives**		
Semester 6		
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3210	[0.50]	Experimental Design
1.50 electives**		
Semester 7		
2.50 electives**		
Semester 8		

<sup>2.50</sup> 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:

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				

### **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 to 3

The program for the first three semesters is the same as the Major in Physics program.

Semester 4
------------

[0.50]	Differential Equations I
[0.50]	Quantum Physics
[0.75]	Mechanics II
[0.75]	Electricity and Magnetism II
[0.50]	Advanced Calculus II
[0.50]	Differential Equations II
[0.75]	Electronics
[0.50]	Quantum Mechanics I
[0.50]	Statistical Physics I
[0.50]	Set Theory
[0.50]	Complex Analysis
[0.50]	Waves and Optics
[0.50]	Advanced Mechanics
	[0.50] [0.75] [0.75] [0.75] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50]

PHYS*3510	[0.50]	Intermediate Laboratory
PHYS*4040	[0.50]	Quantum Mechanics II
Semester 7		
PHYS*4120	[0.50]	Atomic and Molecular Physics
PHYS*4180	[0.50]	Advanced Electromagnetic Theory
PHYS*4240	[0.50]	Statistical Physics II
One 3000 or 4000	level mathe	ematics course or 0.50 electives
One of:		
PHYS*4500	[0.50]	Advanced Physics Laboratory
0.50 1		
0.50 electives		
Semester 8		
0.000 0.0000000000	[0.50]	Subatomic Physics
Semester 8	[0.50] [0.50]	Subatomic Physics Solid State Physics
Semester 8 PHYS*4130		•
<b>Semester 8</b> PHYS*4130 PHYS*4150	[0.50] [0.50]	Solid State Physics Advanced Physics Project
Semester 8 PHYS*4130 PHYS*4150 PHYS*4510	[0.50] [0.50]	Solid State Physics Advanced Physics Project

\*those not taking MATH\*2210 in Semester 4 must consult the Department of Physics Departmental Advisor

### 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

BIOL*1030	[0.50]	Biology I			
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 a	dmitted det	ficient in one OAC/4U course in Biology, Chemistry or			
Physics must take	the equivale	ent introductory course in first semester. The first-year			
science core in that	t subject sh	ould be completed by Semester 3.			
Semester 2					
BIOL*1040	[0.50]	Biology II			
CHEM*1050	[0.50]	General Chemistry II			
PHYS*1080	[0.50]	Physics for Life Sciences			
STAT*2040	[0.50]	Statistics I			
0.50 Arts or Social	Science el	ectives *			
Semester 3					
BIOC*2580	[0.50]	Introductory Biochemistry			
ZOO*2070	[0.50]	Invertebrate Zoology I			
ZOO*2090	[0.50]	Vertebrate Structure and Function			
ZOO*2100	[0.50]	Developmental Biology			
0.50 electives **					
Semester 4					
BIOL*2210	[0.50]	Introductory Cell Biology			
MBG*2000	[0.50]	Introductory Genetics			
NUTR*3210	[0.50]	Fundamentals of Nutrition			
ZOO*2080	[0.50]	Invertebrate Zoology II			
0.50 electives **					
Semester 5					
BIOL*3010	[0.50]	Laboratory and Field Work in Ecology			
BIOL*3110	[0.50]	Population Ecology			
BOT*2050	[0.50]	Plant Ecology			
ZOO*3200	[0.50]	Comparative Animal Physiology I			
ZOO*3300	[0.50]	Evolution			
Semester 6					
ANSC*3180	[0.50]	Wildlife Nutrition			
BIOL*3120	[0.50]	Community Ecology			
ZOO*3210	[0.50]	Comparative Animal Physiology II			
1.00 electives **, *	***	1 5 65			
Semester 7 ****					
BIOL*4110	[0.75]	Ecological Methods			
ZOO*4070	[0.50]	Animal Behaviour			
1.25 electives **					

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### Semester 8

2.00 electives \*\*

\* CIS\*1200 is recommended for those needing to improve their computer skills

\*\* 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:

IBIO*4500	[0.75]	Research in Integrative Biology I
IBIO*4510	[0.75]	Research in Integrative Biology II
ZOO*4300	[0.75]	Marine Biology and Oceanography
ZOO*4410	[0.75]	Field Ecology
ZOO*4600	[0.75]	Tropical Ecology
ZOO*4610	[0.75]	Arctic Ecology
ZOO*4700	[0.50]	Field Biology
ZOO*4710	[0.25]	Field Biology
ZOO*4800	[0.50]	Field Biology
ZOO*4810	[0.25]	Field Biology
Other field or r	esearch course	es with approval of faculty advisor.

### Electives must include:

1. A minimum of 1	.00 credits f	rom:
ZOO*4090	[0.50]	Ornitholo

ZOO*4090	[0.50]	Ornithology
ZOO*4280	[0.50]	Mammalogy
ZOO*4430	[0.50]	Herpetology
2. At least 1.00 Arts	s and/or So	cial Science elective

2. At least 1.00 Arts and/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.

### Semester 1

BIOL*1030	[0.50]	Biology I		
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 admitted deficient in one OAC/4U course in Biology, Chemistry or				
Physics must take the equivalent introductory course in first semester. The first-year				

Physics must take the equivalent introductory course in first semester. The first-year science core in that subject should be completed by Semester 3. **Semester 2** 

Semester =			
BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
PHYS*1080	[0.50]	Physics for Life Sciences	
STAT*2040	[0.50]	Statistics I	
0.50 Arts or Social	Science el	ectives *	
Semester 3			
ZOO*2070	[0.50]	Invertebrate Zoology I	
ZOO*2090	[0.50]	Vertebrate Structure and Function	
ZOO*2100	[0.50]	Developmental Biology	
1.00 electives **			
Semester 4			
BIOL*2210	[0.50]	Introductory Cell Biology	
BIOC*2580	[0.50]	Introductory Biochemistry	
MBG*2000	[0.50]	Introductory Genetics	
ZOO*2080	[0.50]	Invertebrate Zoology II	
0.50 electives **			
Semester 5			
BIOL*3110	[0.50]	Population Ecology	
ZOO*3200	[0.50]	Comparative Animal Physiology I	
ZOO*3300	[0.50]	Evolution	
1.00 electives **			
Semester 6			
BIOL*3120	[0.50]	Community Ecology	
ZOO*3210	[0.50]	Comparative Animal Physiology II	
1.50 electives **, ***			

Comparative Histology Animal Behaviour

\* CIS\*1200 is recommended for those needing to improve their computer skills

\*\* suggested electives list available from the faculty advisors

\*\*\* BIOL\*2250 is strongly recommended if independent research project courses are anticipated in semesters 7 and/or 8  $\,$ 

### Electives must include:

1. A minimum of 0.50 credits from:

IBIO*4500	[0.75]	Research in Integrative Biology I
IBIO*4510	[0.75]	Research in Integrative Biology II
ZOO*4170	[0.50]	Experimental Comparative Animal Physiology
ZOO*4300	[0.75]	Marine Biology and Oceanography
ZOO*4410	[0.75]	Field Ecology
ZOO*4600	[0.75]	Tropical Ecology
ZOO*4610	[0.75]	Arctic Ecology
ZOO*4700	[0.50]	Field Biology
ZOO*4710	[0.25]	Field Biology
ZOO*4800	[0.50]	Field Biology
ZOO*4810	[0.25]	Field Biology
Other field or re	esearch course	es with approval of faculty advisor.

2. At least 1.00 Arts or Social Science electives.

3. This major must contain at least 6.00 science credits at the 3000 or 4000 level, which must include at least 2.00 at the 4000 level. The restricted elective in point number 1 above counts as part of this 3000 or 4000 level requirement.

**Note:** The Major in Zoology is a flexible program which allows students in consultation with faculty advisors, to design a program to meet their own needs and interests. For example, students may wish to concentrate in Evolutionary Physiology, Quantitative Zoology, or Systematic Zoology for which lists of electives are available from faculty advisors.

### 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
ZOO*2070	[0.50]	Invertebrate Zoology I
ZOO*2080	[0.50]	Invertebrate Zoology II
ZOO*2090	[0.50]	Vertebrate Structure and Function
ZOO*2100	[0.50]	Developmental Biology
ZOO*3000	[0.50]	Comparative Histology
ZOO*3200	[0.50]	Comparative Animal Physiology I
ZOO*3210	[0.50]	Comparative Animal Physiology II
ZOO*3300	[0.50]	Evolution
ZOO*4070	[0.50]	Animal Behaviour
ZOO*4090	[0.50]	Ornithology
ZOO*4280	[0.50]	Mammalogy
ZOO*4330	[0.50]	Environmental Biology of Fishes
ZOO*4430	[0.50]	Herpetology

The remaining 1.00 credit 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 identifying 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 1999.

#### B.Sc.(Agr.) Majors:

Agricultural Economics Animal Science Crop, Horticulture and Turfgrass Science Honours Agricultural Science Organic Agriculture Urban Landscape Management

### 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 program 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			
AGR*1100	[0.50]	Introduction to the Agrifood Systems	
BIOL*1030	[0.50]	Biology I	
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*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
ENGL*1200	[0.50]	Reading the Contemporary World	
0.50 electives			
Semester 3			
AGR*2320	[0.50]	Soils in Agroecosystems	
AGR*2350	[0.50]	Animal Production Systems and Industry	
AGR*2400	[0.50]	Economics of the Canadian Food System	
AGR*2470	[0.50]	Introduction to Plant Agriculture	
0.50 restricted electives			
Semester 4			
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape	
		Management	
STAT*2040	[0.50]	Statistics I	
One of:			
CROP*2110	[0.50]	Crop Ecology	
HORT*3350	[0.50]	Woody Plant Production and Culture	
One of:			
ANSC*2340	[0.50]	Structure of Farm Animals	
ANSC*2360	[0.50]	Challenges and Opportunities in Animal Production	
ANSC*3210	[0.50]	Principles of Animal Care and Welfare	
Note: ANSC*2360 is a Fall offering and ANSC*2340, ANSC*3210 are Winter offerings.			
0.50 restricted ele	ectives		

#### Semester 5

AGEC*2700	[0.50]	Survey of Natural Resource Economics	
FOOD*3090	[0.50]	Food Science and Human Nutrition	
1.50 electives or restricted electives			

### Semester 6

EDRD*3400	[0.50]	Sustainable Communities
2.00 electives		

#### Semester 7 & 8

Students must choose either Option A or B in Semester 7 and 8

Option A:		
AGR*4500	[0.50]	Agrifood Industry Problem-Solving
4.50 electives		
Option B		
AGR*4450	[1.00]	Research Project I
AGR*4460	[1.00]	Research Project II
3.00 electives		

#### **Restricted Electives**

1. 2 of the following Restricted Electives are required:

	0	1
BIOC*2580	[0.50]	Introductory Biochemistry
BOT*2100	[0.50]	Life Strategies of Plants
ECON*1100	[0.50]	Introductory Macroeconomics
ECON*2310	[0.50]	Intermediate Microeconomics
GEOL*3130	[0.50]	Agrogeology
MBG*2000	[0.50]	Introductory Genetics
SOIL*2120	[0.50]	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.

A list of faculty advisors for the following elective course groupings are available from the B.Sc.(Agr) Program Counsellor.

World Agriculture and Economic Development

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**

Agricultural La	nd Resour	ces
General Recommen	ndations:	
EDRD*3450	[0.50]	Watershed Planning Practice
GEOG*2480	[0.50]	Mapping and GIS
GEOL*3060	[0.50]	Groundwater
MET*2020	[0.50]	Agrometeorology
PBIO*4100	[0.50]	Soil Plant Relationships
SOIL*2120	[0.50]	Introduction to Environmental Stewardship
SOIL *3080	[0.50]	Soil and Water Conservation
SOIL*3600	[0.50]	Remote Sensing
SOIL*4090	[0.50]	Soil Management
SOIL*4250	[0.50]	Soils in the Landscape
Climate & Agroeco		-
GEOG*3020	[0.50]	Global Environmental Change
GEOL*2200	[0.50]	Glacial Geology
MET*2030	[0.50]	Meteorology and Climatology
MET*3050	[0.50]	Microclimatology
MET*4210	[0.50]	Atmospheric Experimentation and Instrumentation
Nutrient Managem		· ····································
GEOL*2200	[0.50]	Glacial Geology
GEOL*3130	[0.50]	Agrogeology
SOIL*3060	[0.50]	Environmental Soil Chemistry
SOIL*3070	[0.50]	Environmental Soil Physics
SOIL*3200	[0.50]	Environmental Soil Biology
Source Water Prod		
BIOL*3450	[0.50]	Introduction to Aquatic Environments
GEOG*3610	[0.50]	Environmental Hydrology
GEOL*2200	[0.50]	Glacial Geology
GEOL*3190	[0.50]	Environmental Water Chemistry
ENVB*3280	[0.50]	Waterborne Disease Ecology
ENVB*4020	[0.50]	Water Quality and Environmental Management
ZOO*4350	[0.50]	Biology of Polluted Waters
Agroforestry	. ,	
BOT*2050	[0.50]	Plant Ecology
ENVB*2030		Current Issues in Forest Science
ENVB*2040	[0.50] [0.50]	Plant Health and the Environment
ENVB*2100	[0.50]	Problem-Solving in Environmental Biology
ENVB*3250	[0.50]	Forest Health and Disease **
ENVB*3300	[0.50]	Applied Ecology and Environment **
ENVB*3330	[0.50]	Ecosystem Processes and Applications **
ENVB*3330 ENVB*4780	[0.50]	Forest Ecology **
HORT*3230	[0.50]	Plant Propagation
HORT*3260	[0.50]	Woody Plants
HORT*4250	[0.50]	Nursery Production
PBIO*4100	[0.50]	Soil Plant Relationships
SOIL*2120	[0.50]	Introduction to Environmental Stewardship
SOIL*4090	[0.50]	Soil Management
		ations and Development
	. –	מנוסווז מווע שביירוסףוווכוונ
General Recommen		
EDRD*2000	[0.50]	Introduction to Rural Extension
EDRD*2020	[0.50]	Interpersonal Communication
EDRD*3000	[0.50]	Program Development and Evaluation

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*3180	[0.50]	Social Processes in Mediated Communication
EDRD*4120	[0.50]	Leadership Development in Small Organizations
Communication: P	rocess and Pr	oducts:
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 Organization	ns and Comm	unity 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 **
MCS*4050	[0.50]	The Evolution of Capitalism: A Canadian Perspective
		**
SOC*2080	[0.50]	Rural Sociology **
SOC*2280	[0.50]	Society and Environment **
International A	griculture	
General Recomme	ndations:	
AGEC*1300	[0.50]	Poverty, Food & Hunger
	-	

	[0.0.0]	
AGR*2500	[0.50]	Field Trip 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
HORT*4380	[0.50]	Tropical and Sub-Tropical Horticultural Crops
Tropical Agroecosy	stems:	
ENVB*3300	[0.50]	Applied Ecology and Environment
GEOL*3130	[0.50]	Agrogeology
PBIO*4100	[0.50]	Soil Plant Relationships
SOIL*3080	[0.50]	Soil and Water Conservation
SOIL*4090	[0.50]	Soil Management
International Agrib	usiness and	Policy:
AGEC*2410	[0.50]	Agrifood Markets and Policy
AGEC*4000	[0.50]	Agricultural and Food Policy **
ECON*2410	[0.50]	Intermediate Macroeconomics
EDRD*2000	[0.50]	Introduction to Rural Extension
Plant Protection	l	
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]	Applied Entomology **
ENVB*4130	[0.50]	Chemical Ecology: Principles & Practice **
ENVB*4240	[0.50]	Biological Activity of Pesticides
MICR*3220	[0.50]	Plant Microbiology **
PBIO*4000	[0.50]	Molecular and Cellular Aspects of Plant-Microbe
		Interactions **

### Agriculture (AGR)

#### OAC Dean's Office

AGEC\*4210

[0.50]

#### 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:

One of:		
AGR*1250	[0.50]	Agrifood System Trends & Issues
ENVB*2010	[0.50]	Food Production and the Environment
Three of:		
AGR*2320	[0.50]	Soils in Agroecosystems
AGR*2350	[0.50]	Animal Production Systems 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 Trip in International Agriculture
EDRD*3400	[0.50]	Sustainable Communities
FOOD*3070	[0.50]	Introduction to Food Processing
3.00 credits from th	ne 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
PBIO*3110	[0.50]	Crop Physiology
Animal Science:		
ANSC*2330	[0.50]	Horse Management Science
ANSC*2340	[0.50]	Structure of Farm Animals
ANSC*2360	[0.50]	Challenges and Opportunities in Animal Production
ANSC*3080	[0.50]	Agricultural Animal Physiology
ANSC*3150	[0.50]	Principles of Farm Animal Care and Welfare
ANSC*4050	[0.50]	Biotechnology in Animal Science
MBG*2000	[0.50]	Introductory Genetics
MBG*3090	[0.50]	Applied Animal Genetics
Environmental Bio	ology:	
ENVB*2040	[0.50]	Plant Health and the Environment
ENVB*3030	[0.50]	Pesticides and the Environment

2007-2008 University of Guelph Undergraduate Calendar

ENVB*3040	[0.50]	Natural Chemicals in the Environment
ENVB*3210	[0.50]	Plant Pathology
ENVB*4100	[0.50]	Applied Entomology
ENVB*4240	[0.50]	Biological Activity of Pesticides
Horticultural Scien	ce:	
HORT*3230	[0.50]	Plant Propagation
HORT*3260	[0.50]	Woody Plants
HORT*3280	[0.50]	Greenhouse Production
HORT*3340	[0.50]	Culture of Plants
HORT*4250	[0.50]	Nursery Production
HORT*4300	[0.50]	Postharvest Physiology
PBIO*3110	[0.50]	Crop Physiology
PBIO*3750	[0.50]	Plant Tissue Culture
Organic Agricultur	e:	
AGEC*2300	[0.50]	Organic Marketing
CROP*2050	[0.50]	Gateway to Organic Agriculture
CROP*2110	[0.50]	Crop Ecology
CROP*3130	[0.50]	Tutorials in Organic Agriculture II
SOIL*3030	[0.50]	Tutorials in Organic Agriculture 1
SOIL*4160	[0.50]	Design of Organic Production Systems
Resource Managen	nent:	
MET*2020	[0.50]	Agrometeorology
MET*2030	[0.50]	Meteorology and Climatology
MET*3050	[0.50]	Microclimatology
SOIL*2120	[0.50]	Introduction to Environmental Stewardship
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape
		Management
SOIL*3050	[0.50]	Land Utilization
SOIL*3080	[0.50]	Soil and Water Conservation
SOIL*4090	[0.50]	Soil Management
PBIO*4100	[0.50]	Soil Plant Relationships
Agricultural E	conomic	s (AGEC)

#### Department of Food, Agricultural and Resource Economics

### Semester 1

AGR*1100	[0.50]	Introduction to the Agrifood Systems
BIOL*1030	[0.50]	Biology I
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*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
ECON*1100	[0.50]	Introductory Macroeconomics
ENGL*1200	[0.50]	Reading the Contemporary World
Semester 3		
AGR*2400	[0.50]	Economics of the Canadian Food System
ECON*2310	[0.50]	Intermediate Microeconomics
Two of:		
AGR*2320	[0.50]	Soils in Agroecosystems
AGR*2350	[0.50]	Animal Production Systems and Industry
A CD *2470	50 501	

AGR\*2470 [0.50] Introduction to Plant Agriculture

0.50 electives or restricted electives

### Semester 4

Semester 5		
0.50 electives or	restricted el	lectives
ECON*2770	[0.50]	Introductory Mathematical Economics
ECON*2740	[0.50]	Economic Statistics
ECON*2410	[0.50]	Intermediate Macroeconomics
AGEC*2410	[0.50]	Agrifood Markets and Policy

ECON*3740	[0.50]	Introduction to Econometrics
FOOD*3090	[0.50]	Food Science and Human Nutrition
One of:		
AGR*2320	[0.50]	Soils in Agroecosystems
AGR*2350	[0.50]	Animal Production Systems and Industry
AGR*2470	[0.50]	Introduction to Plant Agriculture
1.00 electives or	restricted ele	ctives

#### Semester 6

EDRD*3400	[0.50]	Sustainable Communities	
2.00 electives or	restricted e	lectives	
Semester 7 &	<b>k 8</b>		

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Students must choose either Option A or B in Semester 7 and 8
Option A:
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# Semester 7 AGR\*4450 [1.00] Research Project I

1.50 electives or a	restricted el	lectives
Semester 8		
AGEC*4000	[0.50]	Agricultural and Food Policy
AGR*4500	[0.50]	Agrifood Industry Problem-Solving
1.50 electives or	restricted el	lectives
Option B		
Semester 7		
AGEC*3030	[0.50]	The Firm and Markets
AGEC*4500	[0.50]	Decision Science
AGR*4450	[1.00]	Research Project I
0.50 electives or a	restricted el	lectives
Semester 8		
AGEC*4000	[0.50]	Agricultural and Food Policy
AGR*4460	[1.00]	Research Project II
1.00 electives or 1	restricted el	lectives

[0.50]

[0.50]

#### **Restricted Electives**

Semester 7 AGEC\*3030

AGEC\*4500

1. Students are required to take at least 1.50 additional credits at the 3000 or 4000 level in the following subject areas: AGEC, MCS, ECON, or in an area otherwise approved by the faculty advisor. At least 1.00 of these additional credits must be at the 4000 level.

The Firm and Markets

Decision Science

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.

### Animal Science (ANSC)

Department	of Animal	and Poultry	<b>Science</b>
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Semester 1				
AGR*1100	[0.50]	Introduction to the Agrifood Systems		
BIOL*1030	[0.50]	Biology I		
CHEM*1040	[0.50]	General Chemistry I		
ECON*1050	[0.50]	Introductory Microeconomics		
MATH*1080 Semester 2	[0.50]	Elements of Calculus I		
AGR*1250	[0.50]	Agrifood System Trends & Issues		
BIOL*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
ENGL*1200	[0.50]	Reading the Contemporary World		
0.50 electives				
Semester 3				
AGR*2320	[0.50]	Soils in Agroecosystems		
AGR*2350	[0.50]	Animal Production Systems and Industry		
AGR*2400	[0.50]	Economics of the Canadian Food System		
AGR*2470	[0.50]	Introduction to Plant Agriculture		
MBG*2000	[0.50]	Introductory Genetics		
Semester 4				
ANSC*2340	[0.50]	Structure of Farm Animals		
BIOC*2580	[0.50]	Introductory Biochemistry		
MICR*2020	[0.50]	Microbial Interactions and Associations		
STAT*2040	[0.50]	Statistics I		
0.50 electives				
Semester 5				
ANSC*2360	[0.50]	Challenges and Opportunities in Animal Production		
ANSC*3080	[0.50]	Agricultural Animal Physiology		
NUTR*3210	[0.50]	Fundamentals of Nutrition		
MBG*3090	[0.50]	Applied Animal Genetics		
0.50 electives				
Semester 6				
2.50 electives or re	estricted ele	ectives		
Semester 7 &	8			
Students must ch	oose either	Option A or B in Semester 7 and 8		
Option A:				
Semester 7				
POPM*4230	[0.50]	Animal Health		
2.00 electives o	r restricted	electives		
Semester 8				
AGR*4500	[0.50]	Agrifood Industry Problem-Solving		
2.00 electives o	r restricted	electives		
Option B				
Semester 7				

POPM*4230	[0.50]	Animal Health		
1.00 electives or re	estricted el	ectives		
Semester 8				
AGR*4460 [1.00] Research Project II				
1.50 electives or restricted electives				

#### **Restricted Electives**

 A minimum of 3.00 credits. 1.00 credits required from each of Animal Breeding and Genetics, Animal Nutrition as well as Animal Physiology and Behaviour and Genetics: Animal Breeding.

	Animal Breedin	ıg.	
	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 Nutritic	on:	-
	ANSC*3120	[0.50]	Introduction to 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*4550	[0.50]	Horse Nutrition
	ANSC*4560	[0.50]	Pet Nutrition
	Animal Physiol	ogy and Beha	viour:
	ANSC*3210	[0.50]	Principles of Animal Care and Welfare
	ANSC*3300	[0.50]	Animal Reproduction
	ANSC*4090	[0.50]	Applied Animal Behaviour
	ANSC*4100	[0.50]	Applied Environmental Physiology and Animal
			Housing
	ANSC*4130	[0.50]	Reproductive Management and Technology
	ANSC*4490	[0.50]	Applied Endocrinology
~		1.00 11.	

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.

### Crop, Horticulture and Turfgrass Sciences (CHATS)

#### Department of Plant Agriculture

2 optiment of 1				
Semester 1				
AGR*1100	[0.50]	Introduction to the Agrifood Systems		
BIOL*1030	[0.50]	Biology I		
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*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
ENGL*1200	[0.50]	Reading the Contemporary World		
0.50 electives				
Semester 3				
AGR*2320	[0.50]	Soils in Agroecosystems		
AGR*2400	[0.50]	Economics of the Canadian Food System		
AGR*2470	[0.50]	Introduction to Plant Agriculture		
MBG*2000	[0.50]	Introductory Genetics		
0.50 electives or r	estricted ele	ectives		
Semester 4				
BIOC*2580	[0.50]	Introductory Biochemistry		
BOT*2100	[0.50]	Life Strategies of Plants		
STAT*2040	[0.50]	Statistics I		
One of:				
BOT*2050	[0.50]	Plant Ecology (in semester 5)		
CROP*2110	[0.50]	Crop Ecology		
0.50 to 1.00 electi	ves or restri	icted electives		
Semester 5				
BOT*2050	[0.50]	Plant Ecology (if CROP*2110 is not taken in semester 4)		
FOOD*3090	[0.50]	Food Science and Human Nutrition		
One of:				
BOT*3310	[0.50]	Plant Growth and Development (in semester 6)		
PBIO*3110	[0.50]	Crop Physiology		
1.00 to 2.00 election	ves or restri	icted electives		

		U	
	Semester 6		
	BOT*3310	[0.50]	Plant Growth and Development (if PBIO*3310 is not taken in semester 5)
	EDRD*3400	[0.50]	Sustainable Communities
	1.50 to 2.00 electi	ves or restri	cted electives
	Semester 7 &	8	
d	Students must ch	100se either	Option A or B in Semester 7 and 8
:	<b>Option A:</b>		
	Semester 7		
	One of:		
	PBIO*4100	[0.50]	Soil Plant Relationships (in semester 8)
	SOIL*4090	[0.50]	Soil Management
	2.00 to 2.50 electi	ves or restri	cted electives
	Semester 8		
	AGR*4500	[0.50]	Agrifood Industry Problem-Solving
	PBIO*4100	[0.50]	Soil Plant Relationships (if SOIL*4090 is not taken in semester 7)
	1.50 to 2.00 electi	ves or restri	cted 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
	1.00 to 1.50 electi	ves or restri	cted electives
	Semester 8		
	AGR*4460	[1.00]	Research Project II
	PBIO*4100	[0.50]	Soil Plant Relationships (if SOIL*4090 is not taken in

semester 7)

1.00 to 1.50 electives or restricted electives

#### **Restricted Electives**

- 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. Refer 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 one of the following course groups.

#### **Crop Science**

Choose three cours	es (1.50 crea	dits) among the following:	
CROP*2050	[0.50]	Gateway to Organic Agriculture	
CROP*3300	[0.50]	Grain Crops	
CROP*3310	[0.50]	Protein and Oilseed Crops	
CROP*3340	[0.50]	Managed Grasslands	
CROP*4220	[0.50]	Cropping Systems	
CROP*4240	[0.50]	Weed Science	
Choose three cours	es (1.50 cred	dits) among the following:	
AGR*2350	[0.50]	Animal Production Systems and Industry	
ENVB*3210	[0.50]	Plant Pathology	
ENVB*4100	[0.50]	Applied Entomology	
MBG*3100	[0.50]	Plant Genetics	
MBG*4160	[0.50]	Plant Breeding	
MET*2020	[0.50]	Agrometeorology	
PBIO*3750	[0.50]	Plant Tissue Culture	
PBIO*4100	[0.50]	Soil Plant Relationships	
PBIO*4750	[0.50]	Genetic Engineering of Plants	
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape	
		Management	
SOIL*3080	[0.50]	Soil and Water Conservation	
SOIL*4160	[0.50]	Design of Organic Production Systems	
Horticultural Scie	ence		
		ts) 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	
		ts) among the following:	
BOT*3410	[0.50]	Plant Anatomy	
HORT*3230	[0.50]	Plant Propagation	

#### X. Degree Programs, Bachelor of Science in Agriculture [B.Sc.(Agr.)]

[0 50]	Woody Plants
	Postharvest Physiology
	Plant Genetics
	Plant Breeding
	Plant Tissue Culture
	Soil Plant Relationships
	Genetic Engineering of Plants
	its) among the following:
[0.50]	Weed Science
[0.50]	Plant Pathology
[0.50]	Applied Entomology
[0.50]	Experiential Education
[0.50]	Introduction to Landscape Management
[0.50]	Pesticides and the Environment
[0.50]	Management of Turfgrass Diseases
[0.50]	Introduction to Turfgrass Science
[0.50]	Management of Turfgrass Insect Pests and Weeds
[0.50]	Turf, the Environment and Society
[0.50]	Advanced Turfgrass Science
[0.50]	Weed Science
[0.50]	Plant Pathology
[0.50]	Applied Entomology
ulture(O	AGR)
	[0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50]

#### Department of Plant Agriculture and Department of Land Resource Science Semester 1

Semester 1			
AGR*1100	[0.50]	Introduction to the Agrifood Systems	
BIOL*1030	[0.50]	Biology I	
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*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
ENGL*1200	[0.50]	Reading the Contemporary World	
0.50 electives			
Semester 3			
AGR*2320	[0.50]	Soils in Agroecosystems	
AGR*2350	[0.50]	Animal Production Systems and Industry	
AGR*2400	[0.50]	Economics of the Canadian Food System	
AGR*2470	[0.50]	Introduction to Plant Agriculture	
CROP*2050	[0.50]	Gateway to Organic Agriculture	
Semester 4			
STAT*2040	[0.50]	Statistics I	
GEOL*3130	[0.50]	Agrogeology	
1.50 electives or re	stricted ele	ctives	
Semester 5			
AGR*3500	[0.50]	Experiential Education	
BOT*2100	[0.50]	Life Strategies of Plants	
FOOD*3090	[0.50]	Food Science and Human Nutrition	
SOIL*3030	[0.50]	Tutorials in Organic Agriculture 1	
0.50 electives or re	stricted ele	ctives	
Semester 6			
CROP*3130	[0.50]	Tutorials in Organic Agriculture II	
EDRD*3400	[0.50]	Sustainable Communities	
1.50 electives or re	stricted ele	ctives	
Semester 7			
AGEC*2300	[0.50]	Organic Marketing	
SOIL*4160	[0.50]	Design of Organic Production Systems	
1.50 electives or re	stricted ele	ctives	
Semester 8			
AGR*4500	[0.50]	Agrifood Industry Problem-Solving	
EDRD*4180	[0.50]	Social Issues in Organic Agriculture	
1.50 electives or re		ctives	
<b>Restricted Ele</b>	ctives		
1. A minimum of	f 2.00 credit	ts from the list of restricted electives below:	
ANSC*2360	[0.50]	6 11	
ANSC*3150	[0.50]		
CROP*2110	[0.50]	Crop Ecology	

[0.50]

Weed Science

CROP\*4240

FO	
[0.50]	Introduction to Rural Extension
[0.50]	Plant Health and the Environment
[0.50]	Plant Pathology
[0.50]	Applied Ecology and Environment
[0.50]	Applied Entomology
[0.50]	Agriculture and Society
[0.50]	Woody Plants
[0.50]	Soil Plant Relationships
[0.50]	Philosophy of the Environment
[0.50]	Gender and Change in Rural Canada
[0.50]	Society and Nature
[0.50]	Advanced Topics in Rural Sociology
[0.50]	Soil Processes in Landscape
[0.50]	Environmental Issues in Agriculture and Landscape
	Management
	[0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50] [0.50]

- 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.

### Urban Landscape Management (ULM)

### The School of Environmental Design and Rural Development

The Major in Urban Landscape Management is designed to address the need for graduates who can manage not only attractive, but functional and sustainable, urban open spaces. Graduates will have an applied understanding of soil and plant science as they specifically relate to recreational and aesthetic urban open space. Students will learn to address issues in a multidisciplinary and creative manner reflecting environmental, social, political, cultural and economic imperatives.

### **Field Trips**

Participation in organized visits to study site areas and projects sites is obligatory for all students taking certain courses in Urban Landscape Management. To the extent that 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 professor for permission to substitute papers on appropriate topics.

#### Selection of Electives

All electives may be chosen independently although counselling with the academic 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 file of interest in depth. Students are cautioned to be aware of university regulations concerning the required minimum number of 3000 and 4000 level courses and that the prerequisite requirements of courses may direct them to take particular courses in preparation.

### Semester 1

bennester 1			
AGR*1100	[0.50]	Introduction to the Agrifood Systems	
BIOL*1030	[0.50]	Biology I	
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*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
ENGL*1200	[0.50]	Reading the Contemporary World	
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 3			
AGR*2320	[0.50]	Soils in Agroecosystems	
AGR*2400	[0.50]	Economics of the Canadian Food System	
EDRD*2010	[0.50]	Introduction to Landscape Management	
HORT*2450	[0.50]	Introduction to Turfgrass Science	
0.50 electives			
Semester 4			
BOT*2100	[0.50]	Life Strategies of Plants	
LARC*2820	[0.50]	Urban and Regional Planning	
STAT*2040	[0.50]	Statistics I	
1.00 electives or re	stricted ele	ctives	

1.00 electives or restricted electives

### Semester 5

BIOL*2060	[0.50]	Ecology
LARC*2100	[0.50]	Landscape Analysis
1.50 electives or	restricted el	lectives

### Semester 6

Schester 0		
EDRD*3400	[0.50]	Sustainable Communities
EDRD*3140	[0.50]	Organizational Communication
HORT*3350	[0.50]	Woody Plant Production and Culture
SOIL*3000	[0.50]	Environmental Issues in Agriculture and Landscape
		Management
0.50 electives or restricted electives		

### Semester 7

AGR*4450	[1.00]	Research Project I
EDRD*4300	[0.50]	Issues in Landscape Management
1.00 electives or	restricted e	lectives

### Semester 8

AGR\*4460 [1.00] Research Project II

1.50 electives or restricted electives

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.

### **Restricted Electives**

1.50 credits from:		
AGR*2350	[0.50]	Animal Production Systems and Industry
AGR*2470	[0.50]	Introduction to Plant Agriculture
BIOL*3450	[0.50]	Introduction to Aquatic Environments
BIOL*4060	[0.50]	Restoration Ecology
BOT*2050	[0.50]	Plant Ecology
EDRD*3450	[0.50]	Watershed Planning Practice
ENVB*2030	[0.50]	Current Issues in Forest Science
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*3160	[0.50]	Management of Turfgrass Diseases
ENVB*3210	[0.50]	Plant Pathology
ENVB*3300	[0.50]	Applied Ecology and Environment
ENVB*4780	[0.50]	Forest Ecology
FOOD*3090	[0.50]	Food Science and Human Nutrition
HORT*3010	[0.50]	Annual, Perennial and Indoor Plants - Identification and
		Use
HORT*3050	[0.50]	Management of Turfgrass Insect Pests and Weeds
HORT*4450	[0.50]	Advanced Turfgrass Science
PBIO*4100	[0.50]	Soil Plant Relationships
SOIL*2010	[0.50]	Soil Science
SOIL*3050	[0.50]	Land Utilization
SOIL*3100	[0.50]	Resource Planning Techniques
SOIL*3200	[0.50]	Environmental Soil Biology
SOIL*3600	[0.50]	Remote Sensing
1.00 credits from:		
ECON*2100	[0.50]	Economic Growth and Environmental Quality
EDRD*2020	[0.50]	Interpersonal Communication
EDRD*3500	[0.50]	Recreation and Tourism Planning
EDRD*4500	[0.50]	Planning Industrial Ecology
GEOG*1220	[0.50]	Human Impact on the Environment
GEOG*3050	[0.50]	Development and the City
HIST*2250	[0.50]	Environment and History
HIST*4640	[0.50]	Canadian Urban History
ISS*2500	[0.50]	Management in Organizations
LARC*4520	[0.50]	Park and Recreation Administration
MCS*2020	[0.50]	Information Management
PHIL*2070	[0.50]	Philosophy of the Environment
PHIL*2100	[0.50]	Critical Thinking
PHIL*2120	[0.50]	Ethics
POLS*1400	[0.50]	Issues in Canadian Politics
POLS*3270	[0.50]	Local Government in Ontario
POLS*3370	[0.50]	Environmental Policy Formation and Administration

### **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 years 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, Faculty of Environmental Sciences. 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)**

Office of the Associate Dean, Faculty of Environmental Sciences.

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 program 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.

Year	Fall	Winter	Spring
1	Academic Term 1	Academic Term 2	Off
2	Academic Term 3	COOP*1000	Academic Term 4
3	COOP*2000	Academic Term 5	COOP*3000
4	Academic Term 6	Academic Term 7	COOP*4000 (Optional)
5	Academic Term 8		

Since some of the program 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 not specific subject requirements for the elective courses, however, you may NOT select the following: BOT\*1200, CHEM\*1100, CIS\*1000, GEOL\*1100,

MATH\*1050, MET\*1000, MICR\*1010, MICR\*1020, MBG\*1000, PHYS\*1600, ZOO\*1500.

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

BIOL*1030	[0.50]	Biology I	
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			
BIOL*1040	[0.50]	Biology II	
CHEM*1050	[0.50]	General Chemistry II	
ECON*1050	[0.50]	Introductory Microeconomics	
GEOG*1300	[0.50]	Introduction to the Biophysical Environment	
PHYS*1130	[0.50]	Physics with Applications	
Note: Co-op stude	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:

BIOL*2060	[0.50]	Ecology	
ENVS*2150	[0.50]	Terrestrial Systems	
ENVS*3150	[0.50]	Aquatic Systems	
		1 2	
ENVS*3160	[0.50]	Atmospheric Systems	
ENVS*4011/2	[0.50]	Project in Environmental Sciences	
ENVS*4300	[0.50]	Environmental Law & Regulation	
PHIL*2070	[0.50]	Philosophy of the Environment	
One of:			
AGEC*2700	[0.50]	Survey of Natural Resource Economics	
ECON*2100	[0.50]	Economic Growth and Environmental Quality	
One of:			
GEOG*3210	[0.50]	Management of the Biophysical Environment	
POLS*3370	[0.50]	Environmental Policy Formation and Administration	
ZOO*4050	[0.50]	Natural Resources Policy	
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.			
<b>T</b>	10		

### **Environmental Sciences Majors**

Earth and Atmospheric Science

Ecology

Environmental Biology Environmental Economics and Policy

Environmental Geography

Environmental Monitoring and Analysis

Environmetrics and Modelling

Natural Resources Management

Requirements for each of these majors are described in the detailed schedules of studies below.

### Earth and Atmospheric Science (EAAS)

### Department of Land Resource Science, 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

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Semester 2			L
BIOL*1040	[0.50]	Biology II	N
CHEM*1050	[0.50]	General Chemistry II	M
ECON*1050	[0.50]	Introductory Microeconomics	M
GEOG*1300	[0.50]	Introduction to the Biophysical Environment	F
PHYS*1130	[0.50]	Physics with Applications	_
Semester 3			D
ENVS*2150	[0.50]	Terrestrial Systems	N
GEOL*1050	[0.50]	Geology and the Environment	P
MET*2030	[0.50]	Meteorology and Climatology	W
STAT*2040	[0.50]	Statistics I	aı
One of:			Ir
AGEC*2700	[0.50]	Survey of Natural Resource Economics	n
ECON*2100	[0.50]	Economic Growth and Environmental Quality	c
Semester 4			S
BIOL*2060	[0.50]	Ecology	В
GEOL*3060	[0.50]	Groundwater	C
SOIL*2010	[0.50]	Soil Science	E
One of:			M
MATH*1210	[0.50]	Calculus II	P
MATH*2080	[0.50]	Elements of Calculus II	S
STAT*2050	[0.50]	Statistics II	
U DU electives of restricted electives			B
Semester 5			C C
GEOL*2110	[0.50]	Earth Material Science	E
One of:			G
GEOG*3210	[0.50]	Management of the Biophysical Environment	P
POLS*3370	[0.50]	Environmental Policy Formation and Administration	S
1.50 electives or re	estricted ele	ectives	
Note: ZOO*4050 1	nay be subs	stituted for GEOG*3210 or POLS*3370 and would be taken	E
in Semester 8.			G
Semester 6			M S'
ENVS*3150	[0.50]	Aquatic Systems	0
ENVS*3160	[0.50]	Atmospheric Systems	0
PHIL*2070	[0.50]	Philosophy of the Environment	
SOIL*3600	[0.50]	Remote Sensing	v
0.50 1 1			- V

#### SOI 0.50 electives or restricted electives

Semester 7		
ENVS*4011	[0.00]	Project in Environmental Sciences
ENVS*4300	[0.50]	Environmental Law & Regulation
SOIL*4250	[0.50]	Soils in the Landscape
1.50 electives or	restricted e	lectives

#### Semester 8

ENVS\*4012 [0.50] Project in Environmental Sciences 2.00 electives or restricted electives

### **Restricted Electives**

Students in the Earth and Atmospheric Science major are required to choose 2.50 credits from the following lists. 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 3000-4000 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

GEOL*2020	[0.50]	Stratigraphy
GEOL*2200	[0.50]	Glacial Geology
GEOL*3100	[0.50]	Non-Renewable Earth Resources
GEOL*3130	[0.50]	Agrogeology
GEOL*4090	[0.50]	Sedimentology
GEOL*4130	[0.50]	Clay and Humic Chemistry
List B - Soil So	cience	
PBIO*4100	[0.50]	Soil Plant Relationships
SOIL*3060	[0.50]	Environmental Soil Chemistry
SOIL*3070	[0.50]	Environmental Soil Physics
SOIL*3080	[0.50]	Soil and Water Conservation
SOIL*3170	[0.50]	Soil Processes in Landscape
SOIL*3200	[0.50]	Environmental Soil Biology
SOIL*4090	[0.50]	Soil Management
List C - Water	•	
ENGG*2550	[0.50]	Water Management
ENGG*3650	[0.50]	Hydrology
GEOG*4150	[0.50]	Sedimentary Processes
GEOL*3190	[0.50]	Environmental Water Chemistry
SOIL*3080	[0.50]	Soil and Water Conservation

### List D - Atmosphere

Farth and Atmospheric Science (FAAS:C)			
MET*4300	[0.50]	Atmospheric Transport and Chemistry	
MET*4210	[0.50]	Atmospheric Experimentation and Instrumentation	
MET*3050	[0.50]	Microclimatology	

### Earth and Atmospheric Science (EAAS:C)

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Department of Land Resource Science, Ontario Agricultural College
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### 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: PIOL: PINS*1020[0.50]Biology I General Chemistry I ENVS*1020[0.50]Hutroduction to Environmental SciencesMATH+1080[0.50]Elements of Calculus IPHYS*1080[0.50]PHYS*1080[0.50]Biology IICHEM*1050[0.50]CHEM*1050[0.50]General Chemistry IICOOP*1100[0.00]Introduction to Co-operative EducationECON*1050[0.50]Introductory MicrocconomicsGEO4*1300[0.50]Introduction to the Biophysical EnvironmentPHYS*1130[0.50]Terrestrial SystemsGEOL:1050[0.50]General Chemistry IIENVS*2150[0.50]Geology and the EnvironmentMET*2030[0.50]Metorology and ClimatologySTAT*2040[0.50]Survey of Natural Resource Economics ECON*1000EOCN*2100[0.50]Economic Growth and Environmental QualityWinter SemesterEcologyPHIL*2070[0.50]EconogyPHIL*2070[0.50]EcologyPHIL*2070[0.50]Soil Science1.00 electives or restricted electivesFallENVS*3150[0.50]Fall Semester 5 - WinterENVS*3150[0.50]Aquatic Systems GEOL*3000GOL0[0.50]Calculus II MATH*2080MATH*1210[0.50]Calculus II MATH*2080MATH*12200[0.50]Calculus II MATH*2080MATH*1210[0.50]Calculus II MATH*2080MATH*2080[0.50]Calculus II MATH*2080M	Semester I - ra	11	
ENV\$*1020         [0.50]         Introduction to Environmental Sciences           MATH*1080         [0.50]         Elements of Calculus I           PHYS*1080         [0.50]         Biology II           CHEM*1050         [0.50]         General Chemistry II           COOP*1100         [0.00]         Introduction to Co-operative Education           ECON*1050         [0.50]         Introduction to the Biophysical Environment           ECON*1050         [0.50]         Introduction to the Biophysical Environment           PHYS*1130         [0.50]         Terrestrial Systems           GEOCH*1050         [0.50]         Geology and the Environment           MET*2030         [0.50]         Statistics I           One of:	BIOL*1030	[0.50]	Biology I
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$\begin{array}{c c} \text{COOP*3000} & [0.00] & \text{Co-op Work Term III} \\ \hline \textbf{Semester 6 - Fall} \\ \hline \textbf{ENVS*4011} & [0.00] & \text{Project in Environmental Sciences} \\ \hline \textbf{GEOL*2110} & [0.50] & \text{Earth Material Science} \\ \hline \textbf{One of:} \\ \hline \textbf{GEOG*3210} & [0.50] & \text{Management of the Biophysical Environment} \\ \hline \textbf{POLS*3370} & [0.50] & \text{Environmental Policy Formation and Administration} \\ 1.50 electives or restricted electives \\ \hline \textbf{Note: ZOO*4050 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7. \\ \hline \textbf{Semester 7 - Winter} \\ \hline \textbf{ENVS*4012} & [0.50] & \text{Project in Environmental Sciences} \\ 2.00 electives or restricted electives \\ \hline \textbf{Summer Semester (Optional)} \\ \hline \textbf{COOP*4000} & [0.00] & \text{Co-op Work Term IV} \\ \hline \textbf{Semester 8 - Fall} \\ \hline \textbf{ENVS*4300} & [0.50] & \text{Environmental Law & Regulation} \\ \hline \textbf{SOIL*4250} & [0.50] & \text{Soils in the Landscape} \\ \end{array}$	STAT*2050	[0.50]	Statistics II
Semester 6 - Fall         ENVS*4011       [0.00]       Project in Environmental Sciences         GEOL*2110       [0.50]       Earth Material Science         One of:       GEOG*3210       [0.50]         GEOG*3210       [0.50]       Management of the Biophysical Environment         POLS*3370       [0.50]       Environmental Policy Formation and Administration         1.50 electives or restricted electives       Note: ZOO*4050 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7.         Semester 7 - Winter       ENVS*4012       [0.50]         ENVS*4012       [0.50]       Project in Environmental Sciences         2.00 electives or restricted electives       Summer Semester (Optional)         COOP*4000       [0.00]       Co-op Work Term IV         Semester 8 - Fall       ENVS*4300       [0.50]         ENVS*4300       [0.50]       Environmental Law & Regulation         SOIL*4250       [0.50]       Soils in the Landscape	Summer Semes	ter	
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1.50 electives or restricted electives         Note: ZOO*4050 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7.         Semester 7 - Winter         ENVS*4012       [0.50]         Project in Environmental Sciences         2.00 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         SOIL*4250       [0.50]			
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2.00 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         SOIL*4250       [0.50]         Soils in the Landscape	Semester 7 - W	inter	
2.00 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         SOIL*4250       [0.50]         Soils in the Landscape	ENVS*4012	[0.50]	Project in Environmental Sciences
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SOIL*4250 [0.50] Soils in the Landscape	ENVS*4300	[0.50]	Environmental Law & Regulation
1.50 electives or restricted electives			*
	1.50 electives or re	estricted ele	ctives

#### **Restricted Electives**

Students in the Earth and Atmospheric Science major are required to choose 2.50 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

List A - Environmental Geology			
GEOL*2020	[0.50]	Stratigraphy	
GEOL*2200	[0.50]	Glacial Geology	
GEOL*3100	[0.50]	Non-Renewable Earth Resources	
GEOL*3130	[0.50]	Agrogeology	
GEOL*4090	[0.50]	Sedimentology	
GEOL*4130	[0.50]	Clay and Humic Chemistry	
List B - Soil Sc	ience		
PBIO*4100	[0.50]	Soil Plant Relationships	
SOIL*3060	[0.50]	Environmental Soil Chemistry	
SOIL*3070	[0.50]	Environmental Soil Physics	
SOIL*3080	[0.50]	Soil and Water Conservation	
SOIL*3170	[0.50]	Soil Processes in Landscape	
SOIL*3200	[0.50]	Environmental Soil Biology	
SOIL*4090	[0.50]	Soil Management	
List C - Water			
ENGG*2550	[0.50]	Water Management	
ENGG*3650	[0.50]	Hydrology	
GEOG*4150	[0.50]	Sedimentary Processes	
GEOL*3190	[0.50]	Environmental Water Chemistry	
SOIL*3080	[0.50]	Soil and Water Conservation	
List D - Atmos	phere		
MET*3050	[0.50]	Microclimatology	
MET*4210	[0.50]	Atmospheric Experimentation and Instrumentation	
MET*4300	[0.50]	Atmospheric Transport and Chemistry	
Ecology (ECO	DL)		

#### **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

Semester 1		
BIOL*1030	[0.50]	Biology I
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		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
ECON*1050	[0.50]	Introductory Microeconomics
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHYS*1130	[0.50]	Physics with Applications
Semester 3		
BIOL*2210	[0.50]	Introductory Cell Biology
CHEM*2300	[0.50]	Chemical Reactivity
ENVS*2150	[0.50]	Terrestrial Systems
STAT*2040	[0.50]	Statistics I
One of:		
CIS*1200	[0.50]	Introduction to Computing
CIS*1500	[0.50]	Introduction to Programming
Semester 4		
BIOC*2580	[0.50]	Introductory Biochemistry
BIOL*3110	[0.50]	Population Ecology
MBG*2000	[0.50]	Introductory Genetics
STAT*2050	[0.50]	Statistics II
0.50 electives		
Semester 5		
BIOL*3010	[0.50]	Laboratory and Field Work in Ecology
One of:		
BOT*2100	[0.50]	Life Strategies of Plants
ZOO*3200	[0.50]	Comparative Animal Physiology I
One of:		
MBG*3000	[0.50]	Population Genetics
ZOO*3300	[0.50]	Evolution
One of:		
BOT*3410	[0.50]	Plant Anatomy

		347
ZOO*2070 ZOO*2090	[0.50] [0.50]	Invertebrate Zoology I Vertebrate Structure and Function
One of: AGEC*2700 ECON*2100 Semester 6	[0.50] [0.50]	Survey of Natural Resource Economics Economic Growth and Environmental Quality
BIOL*3120 ENVS*3150	[0.50] [0.50]	Community Ecology Aquatic Systems
ENVS*3160 PHIL*2070 0.50 electives	[0.50] [0.50]	Atmospheric Systems Philosophy of the Environment
Semester 7		
BIOL*4110 ENVS*4011 One of:	[0.75] [0.00]	Ecological Methods Project in Environmental Sciences
GEOG*3210 POLS*3370	[0.50] [0.50]	Management of the Biophysical Environment Environmental Policy Formation and Administration
1.25 electives Note: ZOO*4050 in Semester 8.	may be subs	tituted for GEOG*3210 or POLS*3370 and would be taken
Semester 8		
BIOL*4120	[0.50]	Evolutionary Ecology
ENVS*4012	[0.50]	Project in Environmental Sciences
ENVS*4300 1.00 electives	[0.50]	Environmental Law & Regulation
Note: Ecology ma	-	required to complete BIOL*2060 as a core course.
Ecology (ECO		
College of Biolog	gical Science	2
Major Please note that n	ot all course	es in the "One of:" options are available each semester (F,
	e encourage	d to seek advice from the appropriate advisor when selecting
Semester 1 - Fa	all	
BIOL*1030	[0.50]	Biology I
CHEM*1040 ENVS*1020	[0.50]	General Chemistry I Introduction to Environmental Sciences
MATH*1080	[0.50] [0.50]	Elements of Calculus I
PHYS*1080	[0.50]	Physics for Life Sciences
Semester 2 - W		
BIOL*1040	[0.50]	Biology II Conserval Chamistery II
CHEM*1050 COOP*1100	[0.50] [0.00]	General Chemistry II Introduction to Co-operative Education
ECON*1050	[0.50]	Introductory Microeconomics
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHYS*1130 Semester 3 - Fa	[0.50]	Physics with Applications
BIOL*2210	[0.50]	Introductory Cell Biology
CHEM*2300	[0.50]	Chemical Reactivity
ENVS*2150	[0.50]	Terrestrial Systems
STAT*2040	[0.50]	Statistics I
One of: CIS*1200	[0.50]	Introduction to Computing
CIS*1500	[0.50]	Introduction to Programming
Winter Semest	er	
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - Su BIOC*2580	1 <b>mmer</b> [0.50]	Introductory Dischamistry
MBG*2000	[0.50]	Introductory Biochemistry Introductory Genetics
PHIL*2070	[0.50]	Philosophy of the Environment
1.00 electives		
Fall Semester COOP*2000	10 001	Co on Work Torm II
Semester 5 - W	[0.00] 7 <b>inter</b>	Co-op Work Term II
BIOL*3110	[0.50]	Population Ecology
ENVS*3150	[0.50]	Aquatic Systems
ENVS*3160	[0.50]	Atmospheric Systems
STAT*2050 0.50 electives	[0.50]	Statistics II
Summer Semes	ster	
COOP*3000	[0.00]	Co-op Work Term III
Semester 6 - Fa		
DIOI *2010	FO 501	Laborate and Elab Wards in Eastern

2007-2008 University of Guelph Undergraduate Calendar

BIOL\*3010

[0.50]

X. Degree Programs	Bachelor of Science	in Environmental Scie	nces [B.Sc.(Env.)]

ENVS*4011	[0.00]	Project in Environmental Sciences
One of:		
MBG*3000	[0.50]	Population Genetics
ZOO*3300	[0.50]	Evolution
One of:		
BOT*2100	[0.50]	Life Strategies of Plants
ZOO*3200	[0.50]	Comparative Animal Physiology I
One of:		
BOT*3410	[0.50]	Plant Anatomy
ZOO*2070	[0.50]	Invertebrate Zoology I
ZOO*2090	[0.50]	Vertebrate Structure and Function
One of:		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
Semester 7 - W	inter	
BIOL*3120	[0.50]	Community Ecology
BIOL*4120	[0.50]	Evolutionary Ecology
ENVS*4012	[0.50]	Project in Environmental Sciences
1.00 electives		-
Summer Seme	ster (Optio	onal)
COOP*4000	[0.0]	Co-op Work Term IV
Semester 8- Fa	11	*
BIOL*4110	[0.75]	Ecological Methods
ENVS*4300	[0.50]	Environmental Law & Regulation
One of:	[0.00]	
GEOG*3210	[0.50]	Management of the Biophysical Environment
POLS*3370	[0.50]	Environmental Policy Formation and Administration
0.75 electives	[]	· · · · · · · · · · · · · · · · · · ·
Note: ZOO*4050	may be subs	stituted for GEOG*3210 or POLS*3370 and would be taken
in Semester 7.		
Note: Ecology ma	ijors are not	required to complete as a core course.
	· · -	

### **Environmental Biology (ENVB)**

### Department of Environmental Biology, 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.

S	en	1e	st	er	T	

Semester 1		
BIOL*1030	[0.50]	Biology I
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		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
ECON*1050	[0.50]	Introductory Microeconomics
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHYS*1130	[0.50]	Physics with Applications
Semester 3		
CHEM*2300	[0.50]	Chemical Reactivity
ENVS*2150	[0.50]	Terrestrial Systems
TOX*2000	[0.50]	Principles of Toxicology
One of:		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
0.50 electives or re	stricted ele	ctives
Semester 4		
BIOC*2580	[0.50]	Introductory Biochemistry
BIOL*2060	[0.50]	Ecology
MBG*2000	[0.50]	Introductory Genetics
STAT*2040	[0.50]	Statistics I
0.50 electives or re	stricted ele	ctives
Semester 5		
One of:		
GEOG*3210	[0.50]	Management of the Biophysical Environment
POLS*3370	[0.50]	Environmental Policy Formation and Administration
2.00 electives or re		
in Semester 8.	nay be subs	tituted for GEOG*3210 or POLS*3370 and would be taken
Semester 6		
	50 503	
ENVS*3150	[0.50]	Aquatic Systems
ENVS*3160	[0.50]	Atmospheric Systems

2007-2008 Universit	v of Guelph Under	roraduate Calendar

DI 11 + 0050	50 503	
PHIL*2070	[0.50]	Philosophy of the Environment
1.00 electives or	restricted el	ectives
Semester 7		
ENVS*4011	[0.00]	Project in Environmental Sciences
ENVS*4300	[0.50]	Environmental Law & Regulation
2.00 electives or	restricted el	ectives
Semester 8		
ENVS*4012	[0.50]	Project in Environmental Sciences
2.00 electives or	restricted el	ectives
<b>Restricted Ele</b>	ctives	
Students in the E	Environmen	tal Biology major are required to choose 5.00 credits from
the following list.	Students are	e 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.
BIOL*3130	[0.50]	Conservation Biology *
BIOL*3450	[0.50]	Introduction to Aquatic Environments
BIOL*4060	[0.50]	Restoration Ecology *
BIOL*4150	[0.50]	Wildlife Conservation and Management
ENVB*2010	[0.50]	Food Production and the Environment
ENVB*2030	[0.50]	Current Issues in Forest Science
ENVB*2040	[0.50]	Plant Health and the Environment
ENVB*3010	[0.50]	Climate Change Biology
ENVB*3030	[0.50]	Pesticides and the Environment
ENVB*3040	[0.50]	Natural Chemicals in the Environment
ENVB*3250	[0.50]	Forest Health and Disease
ENVB*3300	[0.50]	Applied Ecology and Environment
ENVB*4020	[0.50]	Water Quality and Environmental Management *
ENVB*4130	[0.50]	Chemical Ecology: Principles & Practice *
ENVB*4240	[0.50]	Biological Activity of Pesticides
ENVB*4550	[0.50]	Ecotoxicological Risk Characterization *
ENVB*4780	[0.50]	Forest Ecology *
T3 T1 10 1 10 00	50 503	

Biology of Polluted Waters \* \* 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 Impact Assessment

Soil Microbiology and Biotechnology

Microbial Processes in Environmental Management

Environmental Pollution Stresses on Plants \*

Introduction to Environmental Stewardship

Environmental Chemistry and Toxicology

Global Environmental Change

Soil and Water Conservation \*

Environmental Water Chemistry

#### **Environmental Biology (ENVB:C)**

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

ENVS\*4220

GEOG\*3020

GEOL\*3190

MICR\*4140

MICR\*4180

PBIO\*4530

SOIL\*2120

SOIL\*3080

TOX\*3360

ZOO\*4350

Semester 1 - Fall

Department of Environmental Biology,	<b>Ontario Agricultural College</b>
Maior	

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.

Semicorer 1	1 411	
BIOL*1030	[0.50]	Biology I
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	
BIOL*1040	[0.50]	Biology II
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
Semester 3 -	Fall	
CHEM*2300	[0.50]	Chemical Reactivity
ENVS*2150	[0.50]	Terrestrial Systems
TOX*2000	[0.50]	Principles of Toxicology
One of:		
AGEC*2700	0 [0.50]	Survey of Natural Resource Economics
ECON*2100	0 [0.50]	Economic Growth and Environmental Quality
0.50 electives of	or restricted ele	ectives
Winter Seme	ester	
COOP*1000	[0.00]	Co-op Work Term I

Semester 4 - S	ummer		Semester 1		
BIOC*2580	[0.50]	Introductory Biochemistry	BIOL*1030	[0.50]	Biology I
BIOL*2060	[0.50]	Ecology	CHEM*1040	[0.50]	General Chemistry I
MBG*2000	[0.50]	Introductory Genetics	ENVS*1020	[0.50]	Introduction to Environmental Sciences
STAT*2040	[0.50]	Statistics I	MATH*1080	[0.50]	Elements of Calculus I
0.50 electives or	restricted e	lectives	PHYS*1080	[0.50]	Physics for Life Sciences
Fall Semester			Semester 2		
COOP*2000	[0.00]	Co-op Work Term II	BIOL*1040	[0.50]	Biology II
Semester 5 - W			CHEM*1050	[0.50]	General Chemistry II
ENVS*3150	[0.50]	Aquatic Systems	ECON*1050	[0.50]	Introductory Microeconomics
ENVS*3160	[0.50]	Atmospheric Systems	GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHIL*2070	[0.50]	Philosophy of the Environment	PHYS*1130	[0.50]	Physics with Applications
One of:	[0.50]	Thirdsophy of the Environment	Semester 3		
GEOG*3210	[0.50]	Management of the Biophysical Environment	AGEC*2700	[0.50]	Survey of Natural Resource Economics
POLS*3370	[0.50]		ECON*1100	[0.50]	Introductory Macroeconomics
0.50 electives or	restricted e		ECON*2100	[0.50]	Economic Growth and Environmental Quality
Note: ZOO*4050	) may be sul	ostituted for GEOG*3210 or POLS*3370 and would be taken	ENVS*2150	[0.50]	Terrestrial Systems
in Semester 7.			0.50 electives or	restricted ele	ectives
Summer Seme	ester		Semester 4		
COOP*3000	[0.00]	Co-op Work Term III	BIOL*2060	[0.50]	Ecology
Semester 6 - F			ECON*2310	[0.50]	Intermediate Microeconomics
ENVS*4011	[0.00]	Project in Environmental Sciences	ECON*2740	[0.50]	Economic Statistics
2.50 electives or		5	PHIL*2070	[0.50]	Philosophy of the Environment
Semester 7 - V		lectives	0.50 electives or		
			Note: STAT*204	40 may be su	ibstituted for ECON*2740.
ENVS*4012	[0.50]	Project in Environmental Sciences	Semester 5		
ENVS*4300	[0.50]	Environmental Law & Regulation	AGEC*3190	[0.50]	Markets, Firms & Natural Amenities
1.50 electives or			AGEC*4290	[0.50]	Land Economics
Summer Seme			ECON*2410	[0.50]	Intermediate Macroeconomics
COOP*4000	[0.00]	Co-op Work Term IV	ECON*2770	[0.50]	Introductory Mathematical Economics
Semester 8 - F	all		One of:	. ,	
2.50 electives or	restricted e	lectives	GEOG*3210	[0.50]	Management of the Biophysical Environment
<b>Restricted Ele</b>	ctives		POLS*3370	[0.50]	Environmental Policy Formation and Administration
Students in the F	Invironmen	tal Biology major are required to choose 5.00 credits from	Note: AGEC*42	90 is taught	in even-numbered years.
		e encouraged to seek advice on their choices and are reminded		) may be sub	stituted for GEOG*3210 or POLS*3370 and would be take
		(Env.) degree must be at the 3000-4000 level.	in Semester 8.		
BIOL*3130	[0.50]	Conservation Biology *	Semester 6		
BIOL*3450	[0.50]	Introduction to Aquatic Environments	AGEC*3170	[0.50]	Cost-Benefit Analysis
BIOL*4060	[0.50]	Restoration Ecology *	ECON*3740	[0.50]	Introduction to Econometrics
BIOL*4150	[0.50]	Wildlife Conservation and Management	ENVS*3150	[0.50]	Aquatic Systems
ENVB*2010	[0.50]	Food Production and the Environment	ENVS*3160	[0.50]	Atmospheric Systems
ENVB*2030	[0.50]	Current Issues in Forest Science	0.50 electives or	restricted ele	
ENVB*2040	[0.50]	Plant Health and the Environment	Semester 7		
ENVB*3010	[0.50]	Climate Change Biology	ECON*3710	[0.50]	Advanced Microeconomics
ENVB*3030	[0.50]	Pesticides and the Environment	ECON*4930	[0.50]	Environmental Economics
ENVB*3040	[0.50]	Natural Chemicals in the Environment	ENVS*4011	[0.00]	Project in Environmental Sciences
ENVB*3250	[0.50]	Forest Health and Disease	ENVS*4300	[0.50]	Environmental Law & Regulation
ENVB*3300	[0.50]	Applied Ecology and Environment	1.00 electives or		÷
ENVB*4020	[0.50]	Water Quality and Environmental Management *			ermission from instructor to take ECON*4930 and
ENVB*4130	[0.50]	Chemical Ecology: Principles & Practice *	ECON*3710 at the		
ENVB*4240	[0.50]	Biological Activity of Pesticides	Semester 8		
ENVB*4550	[0.50]	Ecotoxicological Risk Characterization *	AGEC*4310	[0.50]	Resource Economics
ENVB*4780	[0.50]	Forest Ecology *	ENVS*4012	[0.50]	Project in Environmental Sciences
ENVS*4220	[0.50]	Environmental Impact Assessment	1.50 restricted ele		
GEOG*3020	[0.50]	Global Environmental Change	Restricted Ele		
GEOL*3190	[0.50]	Environmental Water Chemistry			l Economics and Doliay mains are assisted to al
MICR*4140	[0.50]	Soil Microbiology and Biotechnology			al Economics and Policy major are required to choose 2.0
MICR*4180	[0.50]	Microbial Processes in Environmental Management		-	students are anouraged to seek advise on their absises or
PBIO*4530	[0.50]	Environmental Pollution Stresses on Plants *			Students are encouraged to seek advice on their choices are of their $P_{\text{sec}}(F_{\text{rev}})$ degree must be at the 2000 level of
SOIL*2120	[0.50]	Introduction to Environmental Stewardship			ts of their B.Sc.(Env.) degree must be at the 3000 level of
SOIL*3080	[0.50]	Soil and Water Conservation *	higher.		
TOX*3360	[0.50]	Environmental Chemistry and Toxicology	Environmen	tal Econo	mics and Policy (EEP:C)
ZOO*4350	[0.50]	Biology of Polluted Waters *	Department of F	Economics.	College of Management and Economics
		that some restricted electives (marked by asterisks *) require	-	,	ultural and Resource Economics, Ontario Agricultura
		s prerequisites. Students should consult the most recent	College	. Jou, Agric	anarar and resource Economics, Ontario Agricultura
		pecific requirements.	Major		

Major

and scheduling courses.

Semester 1 - Fall

BIOL\*1030

CHEM\*1040

ENVS\*1020

### **Environmental Economics and Policy (EEP)**

### Department of Economics, 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.

[0.50] Biology I
[0.50] General Chemistry I
[0.50] Introduction to Environmental Sciences

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

350			A. Degree Pl	iograins, Da	chelor of Science in Environmental Sciences [B.Sc.(Env
MATH*1080	[0.50]	Elements of Calculus I	MATH*1080	[0.50]	Elements of Calculus I
PHYS*1080	[0.50]	Physics for Life Sciences	PHYS*1080	[0.50]	Physics for Life Sciences
Semester 2 - V	Vinter		Semester 2		
BIOL*1040	[0.50]	Biology II	BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II	CHEM*1050	[0.50]	General Chemistry II
COOP*1100	[0.00]	Introduction to Co-operative Education	ECON*1050	[0.50]	Introductory Microeconomics
ECON*1050	[0.50]	Introductory Microeconomics	GEOG*1300	[0.50]	Introduction to the Biophysical Environment
GEOG*1300 PHYS*1130	[0.50] [0.50]	Introduction to the Biophysical Environment Physics with Applications	PHYS*1130	[0.50]	Physics with Applications
Semester 3 - F		Physics with Applications	Semester 3	FO 501	
		Surgery of Netural Decourses Economics	ENVS*2150	[0.50]	Terrestrial Systems
AGEC*2700 ECON*1100	[0.50] [0.50]	Survey of Natural Resource Economics Introductory Macroeconomics	GEOG*2000 GEOG*2460	[0.50] [0.50]	Geomorphology Analysis in Geography
ECON*2100	[0.50]	Economic Growth and Environmental Quality	One of:	[0.50]	
ENVS*2150	[0.50]	Terrestrial Systems	AGEC*2700	[0.50]	Survey of Natural Resource Economics
0.50 electives or			ECON*2100	[0.50]	Economic Growth and Environmental Quality
Winter Semes	ster		0.50 electives		
COOP*1000	[0.00]	Co-op Work Term I	Semester 4		
Semester 4 - S		······································	BIOL*2060	[0.50]	Ecology
BIOL*2060	[0.50]	Ecology	GEOG*2110	[0.50]	Climate and the Biophysical Environment
ECON*2310	[0.50]	Intermediate Microeconomics	GEOG*2210	[0.50]	Environment and Resources
ECON*2410	[0.50]	Intermediate Macroeconomics	GEOG*2480	[0.50]	Mapping and GIS
PHIL*2070	[0.50]	Philosophy of the Environment	0.50 electives		
STAT*2040	[0.50]	Statistics I	Semester 5		
Note: STAT*204	40 may be s	ubstituted for ECON*2740.	GEOG*3110	[0.50]	Biotic and Natural Resources
Fall Semester			GEOG*3210	[0.50]	Management of the Biophysical Environment
COOP*2000	[0.00]	Co-op Work Term II	POLS*3370	[0.50]	Environmental Policy Formation and Administration
Semester 5 - V	Vinter	-	1.00 electives or i		
AGEC*3170	[0.50]	Cost-Benefit Analysis			phy majors are required to complete GEOG*3210 and
ECON*2770	[0.50]	Introductory Mathematical Economics	be taken in Seme	,	ZOO*4050 may be substituted for POLS*3370 and wo
ENVS*3150	[0.50]	Aquatic Systems	Semester 6	ster o.	
ENVS*3160	[0.50]	Atmospheric Systems		[0.50]	
One of:			ENVS*3150 ENVS*3160	[0.50]	Aquatic Systems
GEOG*3210	[0.50]		GEOG*3480	[0.50] [0.50]	Atmospheric Systems GIS and Spatial Analysis
POLS*3370	[0.50]		PHIL*2070	[0.50]	Philosophy of the Environment
note: 200*4050 n Semester 7.	0 may be sut	ostituted for GEOG*3210 or POLS*3370 and would be taken	0.50 electives or i		
Summer Seme	ostor		Semester 7		
COOP*3000			ENVS*4011	[0.00]	Project in Environmental Sciences
	[0.00]	Co-op Work Term III	ENVS*4300	[0.50]	Environmental Law & Regulation
Semester 6 - F			GEOG*4690	[1.00]	Geography Field Research
AGEC*3190	[0.50]	Markets, Firms & Natural Amenities	1.00 electives	or restricted	electives*
AGEC*4290	[0.50]	Land Economics Advanced Microeconomics	OR		
ECON*3710 ENVS*4011	[0.50] [0.00]	Project in Environmental Sciences	ENVS*4011	[0.00]	Project in Environmental Sciences
.00 electives or		5	ENVS*4300	[0.50]	Environmental Law & Regulation
		in even-numbered years.			at the 3000 level or higher
Semester 7 - V			1.50 electives	or restricted	electives*
AGEC*4310	[0.50]	Resource Economics	Semester 8		
ECON*3740	[0.50]	Introduction to Econometrics	ENVS*4012	[0.50]	Project in Environmental Sciences
ENVS*4012	[0.50]	Project in Environmental Sciences	GEOG*4880	[0.50]	Contemporary Geographic Thought
.50 electives or		5	1.50 electives or i		
Summer Seme			* students in the E courses at the 300		al Geography major must take at least 4 additional geographic takes
COOP*4000	[0.00]	Co-op Work Term IV			igner merudnig.
Semester 8 - F			At least one of:	[0.50]	Eluvial Processos
		Environmental Economics	GEOG*3000 GEOG*3610	[0.50] [0.50]	Fluvial Processes Environmental Hydrology
ECON*4930 ENVS*4300	[0.50] [0.50]	Environmental Economics Environmental Law & Regulation	GEOG*3620	[0.50]	Desert Environments
		•	At least two of:	[0.50]	Desert Environments
Restricted Ele			ENVS*4220	[0.50]	Environmental Impact Assessment
		al Economics and Policy major are required to ab 2.00	GEOG*3020	[0.50]	Global Environmental Change
		al Economics and Policy major are required to choose 2.00 gricultural and Resource Economics (AGEC*XXXX) or	GEOG*4110	[0.50]	Environmental Systems Analysis
		. Students are encouraged to seek advice on their choices and	GEOG*4210	[0.50]	Environmental Governance
		. Stadents are encouraged to seek advice on men enotees and			
		ts of their B.Sc.(Env.) degree must be at the 3000 level or	Environment	tal Geogr	aphy (ENVG:C)

Major

Semester 1 - Fall

BIOL\*1030

CHEM\*1040

ENVS\*1020

MATH\*1080

PHYS\*1080

### **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*1030	[0.50]	Biology I
CHEM*1040	[0.50]	General Chemistry I
ENVS*1020	[0.50]	Introduction to Environmental Sciences

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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.

Biology I

General Chemistry I

Elements of Calculus I

Physics for Life Sciences

Introduction to Environmental Sciences

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

H. Degree Hogita	ins, Duenero	is of befenee in Environmental befenees [E.Se.(Env.)]
Semester 2 - W	inter	
BIOL*1040	[0.50]	Biology II
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
Semester 3 - Fa	ıll	
ENVS*2150	[0.50]	Terrestrial Systems
GEOG*2000	[0.50]	Geomorphology
GEOG*2460	[0.50]	Analysis in Geography
One of:		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
0.50 electives		
Winter Semest		
COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - Su	ımmer	
BIOL*2060	[0.50]	Ecology
GEOG*2210	[0.50]	Environment and Resources
PHIL*2070	[0.50]	Philosophy of the Environment
1.00 electives		
Fall Semester		
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 - W	inter	
ENVS*3150	[0.50]	Aquatic Systems
ENVS*3160	[0.50]	Atmospheric Systems
GEOG*2110	[0.50]	Climate and the Biophysical Environment
GEOG*2480	[0.50]	Mapping and GIS
0.50 electives or r		ectives*
Summer Semes		
COOP*3000	[0.00]	Co-op Work Term III
Semester 6 - Fa	ll	
ENVS*4011	[0.00]	Project in Environmental Sciences
GEOG*3110	[0.50]	Biotic and Natural Resources
GEOG*3210	[0.50]	Management of the Biophysical Environment
GEOG*3480	[0.50]	GIS and Spatial Analysis
POLS*3370	[0.50]	Environmental Policy Formation and Administration
0.50 electives or r		phy majors are required to complete GEOG*3210 and
		ZOO*4050 may be substituted for POLS*3370 and would
be taken in Semes		200 1000 may be substituted for 1 025 5570 and would
Semester 7 - W		
ENVS*4012	[0.50]	Project in Environmental Sciences
GEOG*4880	[0.50]	Contemporary Geographic Thought
1.50 electives or r		
Summer Semes		
COOP*4000	[0.00]	Co-op Work Term IV
Semester 8 - Fa		
ENVS*4300	[0.50]	Environmental Law & Regulation
GEOG*4690	[0.30]	Geography Field Research
1.00 electives of		
OR		
ENVS*4300	[0.50]	Environmental Law & Regulation
0.50 credits in		at the 3000 level or higher
1.50 electives of	or restricted	electives*
		al Geography major must take at least 4 additional geography
courses at the 300	0 level or h	igher including:
At least one of:		
GEOG*3000	[0.50]	Fluvial Processes
GEOG*3610	[0.50]	Environmental Hydrology
GEOG*3620	[0.50]	Desert Environments
At least two of:	ro	
ENVS*4220	[0.50]	Environmental Impact Assessment
GEOG*3020	[0.50]	Global Environmental Change
GEOG*4110	[0.50]	Environmental Systems Analysis
GEOG*4210	[0.50]	Environmental Governance

## **Environmental Monitoring and Analysis (EMA)**

**College of Physical and Engineering 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.

and scheduling co	-	a to seek advice from the appropriate advisor when selecting
Semester 1	, and each	
BIOL*1030	[0.50]	Biology I
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		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
ECON*1050	[0.50]	Introductory Microeconomics
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHYS*1130	[0.50]	Physics with Applications
Semester 3		
CHEM*2300	[0.50]	Chemical Reactivity
ENVS*2150	[0.50]	Terrestrial Systems
MATH*2080	[0.50]	Elements of Calculus II
MET*2030	[0.50]	Meteorology and Climatology
One of: AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
Semester 4	[0.50]	Economic Growin and Environmental Quanty
BIOC*2580	[0.50]	Introductory Biochemistry
CHEM*2480	[0.50]	Analytical Chemistry I
PHYS*2040	[0.50]	Fundamental Electronics and Sensors
STAT*2040	[0.50]	Statistics I
One of:	. ,	
CIS*1200	[0.50]	Introduction to Computing
CIS*1500	[0.50]	Introduction to Programming
Semester 5		
BIOL*2060	[0.50]	Ecology
PHYS*2550	[0.50]	Radiation and the Environment
STAT*2050	[0.50]	Statistics II
TOX*2000 One of:	[0.50]	Principles of Toxicology
GEOG*3210	[0.50]	Management of the Biophysical Environment
POLS*3370	[0.50]	Environmental Policy Formation and Administration
		in even numbered years.
		stituted for GEOG*3210 or POLS*3370 and would be taken
in Semester 8 - W	inter.	
Semester 6		
CHEM*3360	[0.50]	Environmental Chemistry and Toxicology
ENVS*3150	[0.50]	Aquatic Systems
ENVS*3160	[0.50]	Atmospheric Systems
PHIL*2070	[0.50]	Philosophy of the Environment
STAT*3510 Semester 7	[0.50]	Environmental Risk Assessment
	10 001	
ENVS*4011	[0.00]	Project in Environmental Sciences
ENVS*4300 TOX*3300	[0.50] [0.50]	Environmental Law & Regulation Analytical Toxicology
1.00 core require		
Semester 8	nent of cicci	
CHEM*4010	[0.50]	Chemistry and Industry
ENVS*4012	[0.50]	Project in Environmental Sciences
PHYS*3080	[0.50]	Energy
One of:	[]	
MET*4210	[0.50]	Atmospheric Experimentation and Instrumentation
MET*4300	[0.50]	Atmospheric Transport and Chemistry
0.50 electives		
		n even numbered years.
Environment	tal Monit	oring and Analysis (EMA:C)
College of Physic	cal and Eng	ineering Science
Major	0	-
•	not all course	es in the "One of:" options are available each semester (F,
		d to seek advice from the appropriate advisor when selecting
and scheduling co	-	
C1 E	- 11	

## Semester 1 - Fall

BIOL*1030	[0.50]	Biology I
CHEM*1040	[0.50]	General Chemistry I

ENVS*1020	[0.50]	Introduction to Environmental Sciences	Major
MATH*1080 PHYS*1080	[0.50] [0.50]	Elements of Calculus I	Please note that
Semester 2 - W		Physics for Life Sciences	W, S). Students
BIOL*1040	[0.50]	Biology II	and scheduling
CHEM*1050	[0.50]	General Chemistry II	Semester 1
COOP*1100	[0.00]	Introduction to Co-operative Education	BIOL*1030
ECON*1050	[0.50]	Introductory Microeconomics	CHEM*1040 ENVS*1020
GEOG*1300	[0.50]	Introduction to the Biophysical Environment	MATH*1080
PHYS*1130 <b>Semester 3 - F</b> a	[0.50]	Physics with Applications	PHYS*1080
CHEM*2300		Chamical Basativity	Semester 2
ENVS*2150	[0.50] [0.50]	Chemical Reactivity Terrestrial Systems	BIOL*1040
MATH*2080	[0.50]	Elements of Calculus II	CHEM*1050
MET*2030	[0.50]	Meteorology and Climatology	ECON*1050
One of:			GEOG*1300 PHYS*1130
CIS*1200	[0.50]	Introduction to Computing	Semester 3
CIS*1500 Winter Semest	[0.50]	Introduction to Programming	CIS*1500
COOP*1000	[0.00]	Co-op Work Term I	ENVS*2150
Semester 4 - Si		co-op work remit	STAT*2040
BIOC*2580	[0.50]	Introductory Biochemistry	One of:
BIOL*2060	[0.50]	Ecology	MATH*208
CHEM*2480	[0.50]	Analytical Chemistry I	MATH*216 One of:
PHIL*2070	[0.50]	Philosophy of the Environment	AGEC*2700
STAT*2040	[0.50]	Statistics I	ECON*2100
Fall Semester			Note: Only one
COOP*2000	[0.00]	Co-op Work Term II	will count towa
Semester 5 - W			preferred for m Note: Students
ENVS*3150	[0.50]	Aquatic Systems	and Modelling
ENVS*3160 CHEM*3360	[0.50] [0.50]	Atmospheric Systems Environmental Chemistry and Toxicology	Semester 4
PHYS*2040	[0.50]	Fundamental Electronics and Sensors	BIOL*2060
STAT*2050	[0.50]	Statistics II	MATH*2130
Summer Seme	ster		MATH*2170
COOP*3000	[0.00]	Co-op Work Term III	STAT*2050
Semester 6 - Fa	all		One of: MATH*121
ENVS*4011	[0.00]	Project in Environmental Sciences	MATH*215
PHYS*2040	[0.50]	Fundamental Electronics and Sensors	Semester 5
PHYS*2550 TOX*2000	[0.50] [0.50]	Radiation and the Environment Principles of Toxicology	One of:
One of:	[0.50]	The ples of Toxicology	GEOG*3210
AGEC*2700	[0.50]	Survey of Natural Resource Economics	POLS*3370
ECON*2100	[0.50]	Economic Growth and Environmental Quality	2.00 electives of
0.50 electives			Note: ZOO*40 in Semester 8.
		in even numbered years.	Semester 6
Semester 7 - W			ENVS*3150
CHEM*4010	[0.50]	Chemistry and Industry	ENVS 3150
ENVS*4012 PHYS*3080	[0.50] [0.50]	Project in Environmental Sciences Energy	MATH*3510
STAT*3510	[0.50]	Environmental Risk Assessment	PHIL*2070
One of:	[0.00]		STAT*3510
MET*4210	[0.50]	Atmospheric Experimentation and Instrumentation	Semester 7
MET*4300	[0.50]	Atmospheric Transport and Chemistry	ENVS*4011
0.50 electives	is offered i	n avan numbarad vaara	ENVS*4300 2.00 electives of
Summer Seme		n even numbered years.	Semester 8
COOP*4000	[0.00]	Co-op Work Term IV	ENVS*4012
Semester 8	[0.00]	co-op work remitiv	2.00 electives of
ENVS*4300	[0.50]	Environmental Law & Regulation	Restricted El
TOX*3300	[0.50]	Analytical Toxicology	Students in the
One of:	[0.00]		electives. A min
GEOG*3210	[0.50]	Management of the Biophysical Environment	of 1.00 must be
POLS*3370	[0.50]	Environmental Policy Formation and Administration	List
1.00 electives	mort- 1	ntitute d for CEOC * 2010 DOI 0*2270 1 111 1	MATH*2200
Note: ZOO*4050 in Semester 7 - W		stituted for GEOG*3210 or POLS*3370 and would be taken	MATH*2210
		fodelling (EMM)	MATH*3100
			MATH*3170 MATH*3240
Department of <b>I</b> Science	viathematio	es and Statistics, College of Physical and Engineering	MATH*3240 MATH*4070
Science D	a		MATH*4430

Department of Computing and Information Science, College of Physical and Engineering Science

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.

	and scheduling cou	urses.	
	Semester 1		
	BIOL*1030	[0.50]	Biology I
	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		
	BIOL*1040	[0.50]	Biology II
	CHEM*1050	[0.50]	General Chemistry II
	ECON*1050	[0.50]	Introductory Microeconomics
	GEOG*1300	[0.50]	Introduction to the Biophysical Environment
	PHYS*1130	[0.50]	Physics with Applications
	Semester 3		
	CIS*1500	[0.50]	Introduction to Programming
	ENVS*2150	[0.50]	Terrestrial Systems
	STAT*2040	[0.50]	Statistics I
	One of:	L	
	MATH*2080	[0.50]	Elements of Calculus II
	MATH*2160	[0.50]	Linear Algebra I
	One of:		
	AGEC*2700	[0.50]	Survey of Natural Resource Economics
	ECON*2100	[0.50]	Economic Growth and Environmental Quality
	Note: Only one of N	MATH*121	0/MATH*2080 and only one of MATH*2150/MATH*2160
	will count towards	the degree	(see Semester 4). MATH*1210 and MATH*2160 are
	preferred for mathe		
			netrics and Modelling major must consult the Environmetrics
	and Modelling Fac	culty Adviso	or for course scheduling in semester 4 through 8.
	Semester 4		
	BIOL*2060	[0.50]	Ecology
	MATH*2130	[0.50]	Numerical Methods
	MATH*2170	[0.50]	Differential Equations I
	STAT*2050	[0.50]	Statistics II
	One of:		
	MATH*1210	[0.50]	Calculus II
	MATH*2150	[0.50]	Applied Matrix Algebra
	Semester 5		
	One of:		
	GEOG*3210	[0.50]	Management of the Biophysical Environment
	POLS*3370	[0.50]	Environmental Policy Formation and Administration
	2.00 electives or re		
		may be subs	stituted for GEOG*3210 or POLS*3370 and would be taken
	in Semester 8.		
	Semester 6		
	ENVS*3150	[0.50]	Aquatic Systems
	ENVS*3160	[0.50]	Atmospheric Systems
	MATH*3510	[0.50]	Biomathematics
	PHIL*2070	[0.50]	Philosophy of the Environment
	STAT*3510	[0.50]	Environmental Risk Assessment
	Semester 7		
	ENVS*4011	[0.00]	Project in Environmental Sciences
	ENVS*4300	[0.50]	Environmental Law & Regulation
	2.00 electives or re	estricted ele	octives
	Semester 8		
	ENVS*4012	[0.50]	Project in Environmental Sciences
	2.00 electives or re		
	<b>Restricted Elect</b>	tives	
			cs major are required to choose 3.50 credits of restricted
			credits must be at the 3000 level or higher and a minimum
	of 1.00 must be at		
	List		
		10 501	
n	MATH*2200	[0.50]	Advanced Calculus I
-	MATH*2210	[0.50]	Advanced Calculus II
	MATH*3100	[0.50]	Differential Equations II
-	MATH*3170	[0.50]	Partial Differential Equations and Special Functions
g	MATH*3240 MATH*4070	[0.50]	Operations Research Case Studies in Modeling
	N/IA I H 7/11 / 11		

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

MATH\*4510

STAT\*3100

STAT\*3110

Case Studies in Modeling

Advanced Numerical Methods

Environmental Transport and Dynamics

Introductory Mathematical Statistics I

Introductory Mathematical Statistics II

STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications
STAT*4510	[0.50]	Advanced Risk Analysis
STAT*4340	[0.50]	Statistical Inference
STAT*4350	[0.50]	Applied Multivariate Statistical Methods
STAT*4360	[0.50]	Applied Time Series Analysis
CIS*1900	[0.50]	Discrete Structures in Computer Science
CIS*2430	[0.50]	Object Oriented Programming
CIS*2460	[0.50]	Modelling of Computer Systems
CIS*2500	[0.50]	Intermediate Programming
CIS*2520	[0.50]	Data Structures
CIS*2750	[0.75]	Software Systems Development and Integration
CIS*3460	[0.50]	System Simulation
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms
CIS*3530	[0.50]	Data Base Systems and Concepts
Fnvironmot	rice and M	Modelling (FMM+C)

#### **Environmetrics and Modelling (EMM:C)**

Department of Mathematics and Statistics, College of Physical and Engineering Science

#### Department of Computing and Information Science, College of Physical and **Engineering 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

Semester 1 - Fa	11	
BIOL*1030	[0.50]	Biology I
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 - Wi	inter	
BIOL*1040	[0.50]	Biology II
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
Semester 3 - Fa	11	
CIS*1500	[0.50]	Introduction to Programming
ENVS*2150	[0.50]	Terrestrial Systems
MATH*2080	[0.50]	Elements of Calculus II
STAT*2040	[0.50]	Statistics I
0.50 electives or re	stricted ele	ctives

Note: Students in the Environmetrics and Modelling major must consult the Environmetrics and Modelling Faculty Advisor for course scheduling in semester 4 through 8.

Winter Semester COOP\*1000

COOP*1000	[0.00]	Co-op Work Term I
Semester 4 - Su	ımmer	
BIOL*2060	[0.50]	Ecology
MATH*2130	[0.50]	Numerical Methods
MATH*2150	[0.50]	Applied Matrix Algebra
MATH*2170	[0.50]	Differential Equations I
PHIL*2070	[0.50]	Philosophy of the Environment
Fall Semester		
COOP*2000	[0.00]	Co-op Work Term II
Semester 5 - W	inter	
ENVS*3150	[0.50]	Aquatic Systems
ENVS*3160	[0.50]	Atmospheric Systems
STAT*2050	[0.50]	Statistics II
1.00 electives or 1	estricted ele	ectives
Summer Seme	ster	
COOP*3000	[0.00]	Co-op Work Term III
Semester 6 - Fa	all	
ENVS*4011	[0.00]	Project in Environmental Sciences
One of:		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
One of:		
GEOG*3210	[0.50]	Management of the Biophysical Environment
POLS*3370	[0.50]	Environmental Policy Formation and Administration
1.50 electives or 1		
	may be subs	stituted for GEOG*3210 or POLS*3370 and would be taken
in Semester 7.		

ENVS\*4012 Project in Environmental Sciences [0.50] MATH\*3510 [0.50] **Biomathematics** STAT\*3510 [0.50] Environmental Risk Assessment 1.00 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**

List

Students in the Environmetrics major are required to choose 3.50 credits of restricted electives. A minimum of 2.50 credits must be at the 3000 level or higher and of these a minimum of 1.00 must be at the 4000 level.

List			
MATH*2200	[0.50]	Advanced Calculus I	
MATH*2210	[0.50]	Advanced Calculus II	
MATH*3100	[0.50]	Differential Equations II	
MATH*3170	[0.50]	Partial Differential Equations and Special Functions	
MATH*3240	[0.50]	Operations Research	
MATH*4070	[0.50]	Case Studies in Modeling	
MATH*4430	[0.50]	Advanced Numerical Methods	
MATH*4510	[0.50]	Environmental Transport and Dynamics	
STAT*3100	[0.50]	Introductory Mathematical Statistics I	
STAT*3110	[0.50]	Introductory Mathematical Statistics II	
STAT*3240	[0.50]	Applied Regression Analysis	
STAT*3320	[0.50]	Sampling Theory with Applications	
STAT*4510	[0.50]	Advanced Risk Analysis	
STAT*4340	[0.50]	Statistical Inference	
STAT*4350	[0.50]	Applied Multivariate Statistical Methods	
STAT*4360	[0.50]	Applied Time Series Analysis	
CIS*1900	[0.50]	Discrete Structures in Computer Science	
CIS*2430	[0.50]	Object Oriented Programming	
CIS*2460	[0.50]	Modelling of Computer Systems	
CIS*2500	[0.50]	Intermediate Programming	
CIS*2520	[0.50]	Data Structures	
CIS*2750	[0.75]	Software Systems Development and Integration	
CIS*3460	[0.50]	System Simulation	
CIS*3490	[0.50]	The Analysis and Design of Computer Algorithms	
CIS*3530	[0.50]	Data Base Systems and Concepts	
Natural Resources Management (NRM)			

### Natural Resources Management (NRM)

#### Department of Land Resource Science, 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		
BIOL*1030	[0.50]	Biology I
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		
BIOL*1040	[0.50]	Biology II
CHEM*1050	[0.50]	General Chemistry II
ECON*1050	[0.50]	Introductory Microeconomics
GEOG*1300	[0.50]	Introduction to the Biophysical Environment
PHYS*1130	[0.50]	Physics with Applications
Semester 3		
ENVS*2150	[0.50]	Terrestrial Systems
MET*2030	[0.50]	Meteorology and Climatology
SOIL*2120	[0.50]	Introduction to Environmental Stewardship
STAT*2040	[0.50]	Statistics I
One of:		
AGEC*2700	[0.50]	Survey of Natural Resource Economics
ECON*2100	[0.50]	Economic Growth and Environmental Quality
Note: GEOG*246	0 may be su	ubstituted for STAT*2040.
Semester 4		
BIOL*2060	[0.50]	Ecology
PHIL*2070	[0.50]	Philosophy of the Environment

SOIL*2010 [0.50] Soil Science	
1.00 electives or restricted electives	
Semester 5	
ENVB*2030 [0.50] Current Issues in Forest Science	
SOIL*3050 [0.50] Land Utilization	
SOIL*3080 [0.50] Soil and Water Conservation	
One of:	
GEOG*3210 [0.50] Management of the Biophysical Environment	
POLS*3370 [0.50] Environmental Policy Formation and Administ	ration
0.50 electives or restricted electives	
Note: ZOO*4050 may be substituted for GEOG*3210 or POLS*3370 and would b	e taken
in Semester 8.	
Semester 6	
ENVS*3150 [0.50] Aquatic Systems	
ENVS*3160 [0.50] Atmospheric Systems	
SOIL*3100 [0.50] Resource Planning Techniques	
One of:	
ENGG*2550 [0.50] Water Management	
GEOG*3610 [0.50] Environmental Hydrology	
GEOL*3060 [0.50] Groundwater	
0.50 electives or restricted electives	
Semester 7	
ENVS*4011 [0.00] Project in Environmental Sciences	
ENVS*4300 [0.50] Environmental Law & Regulation	
SOIL*4110 [0.50] Natural Resources Management Field Camp	
ZOO*4110 [0.50] Principles of Fish and Wild Life Management	
1.00 electives or restricted electives	
<b>Note</b> : BIOL*4150 may be substituted for ZOO*4110.	
Semester 8	
ENVS*4012 [0.50] Project in Environmental Sciences	
2.00 electives or restricted electives	
Restricted Electives	
Students in the Natural Resources Management major are required to choose 1.50 re	stricted
elective credits from the following list. Students are encouraged to seek advice	
choices and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the	
level or higher.	
CROP*2280 [0.50] Crops in Land Reclamation	

CROP*2280	[0.50]	Crops in Land Reclamation
ENVB*3000	[0.50]	Nature Interpretation
ENVB*4780	[0.50]	Forest Ecology
ENVS*3320	[0.50]	Principles of Landscape Ecology
ENVS*4220	[0.50]	Environmental Impact Assessment
GEOG*2420	[0.50]	Aerial-photo Interpretation
GEOG*3210	[0.50]	Management of the Biophysical Environment
GEOG*3480	[0.50]	GIS and Spatial Analysis
GEOL*3130	[0.50]	Agrogeology
LARC*4520	[0.50]	Park and Recreation Administration
MET*3050	[0.50]	Microclimatology
SOIL*3060	[0.50]	Environmental Soil Chemistry
SOIL*3070	[0.50]	Environmental Soil Physics
SOIL*3170	[0.50]	Soil Processes in Landscape
SOIL*3200	[0.50]	Environmental Soil Biology
SOIL*3600	[0.50]	Remote Sensing
Natural Reco	Ircos Ma	nagement (NRM·C)

## Natural Resources Management (NRM:C)

#### Department of Land Resource Science, 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*1030	[0.50]	Biology I	GEOG*2420
CHEM*1040	[0.50]	General Chemistry I	GEOG*3210
ENVS*1020	[0.50]	Introduction to Environmental Sciences	GEOG*3480
MATH*1080	[0.50]	Elements of Calculus I	GEOL*3130
PHYS*1080	[0.50]	Physics for Life Sciences	LARC*4520
Semester 2 - V	MET*3050		
BIOL*1040 CHEM*1050 COOP*1100 ECON*1050 GEOG*1300	[0.50] [0.50] [0.00] [0.50] [0.50]	Biology II General Chemistry II Introduction to Co-operative Education Introductory Microeconomics Introduction to the Biophysical Environment	SOIL*3060 SOIL*3070 SOIL*3170 SOIL*3200 SOIL*3600

PHYS\*1130 [0.50] Physics with Applications Semester 3 - Fall Current Issues in Forest Science ENVB\*2030 [0.50] ENVS\*2150 [0.50] Terrestrial Systems MET\*2030 [0.50] Meteorology and Climatology SOIL\*2120 [0.50] Introduction to Environmental Stewardship STAT\*2040 [0.50] Statistics I Note: GEOG\*2460 may be substituted for STAT\*2040. Winter Semester COOP\*1000 [0.00] Co-op Work Term I Semester 4 - Summer BIOL\*2060 [0.50] Ecology PHIL\*2070 [0.50] Philosophy of the Environment 1.50 electives or restricted electives **Fall Semester** COOP\*2000 [0.00] Co-op Work Term II Semester 5 - Winter ENVS\*3150 [0.50] Aquatic Systems ENVS\*3160 [0.50] Atmospheric Systems Soil Science SOIL\*2010 [0.50] One of: ENGG\*2550 [0.50] Water Management GEOG\*3610 [0.50]Environmental Hydrology GEOL\*3060 [0.50] Groundwater 0.50 electives or restricted electives Summer Semester COOP\*3000 Co-op Work Term III [0.00] Semester 6 - Fall ENVS\*4011 [0.00]Project in Environmental Sciences SOIL\*3050 [0.50] Land Utilization SOIL\*3080 [0.50] Soil and Water Conservation One of: AGEC\*2700 [0.50] Survey of Natural Resource Economics ECON\*2100 [0.50] Economic Growth and Environmental Quality One of: GEOG\*3210 [0.50] Management of the Biophysical Environment [0.50] POLS\*3370 Environmental Policy Formation and Administration 0.50 electives or restricted electives Note: ZOO\*4050 may be substituted for GEOG\*3210 or POLS\*3370 and would be taken in Semester 7. Semester 7 - Winter ENVS\*4012 [0.50] Project in Environmental Sciences SOIL\*3100 **Resource Planning Techniques** [0.50] 1.50 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 SOIL\*4110 [0.50] Natural Resources Management Field Camp Principles of Fish and Wild Life Management ZOO\*4110 [0.50] 1.00 electives or restricted electives Note: BIOL\*4150 may be substituted for ZOO\*4110. **Restricted Electives** Students in the Natural Resources Management major are required to choose 1.50 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. CROP\*2280 EN ΕN

CROP*2280	[0.50]	Crops in Land Reclamation
ENVB*3000	[0.50]	Nature Interpretation
ENVB*4780	[0.50]	Forest Ecology
ENVS*3320	[0.50]	Principles of Landscape Ecology
ENVS*4220	[0.50]	Environmental Impact Assessment
GEOG*2420	[0.50]	Aerial-photo Interpretation
GEOG*3210	[0.50]	Management of the Biophysical Environment
GEOG*3480	[0.50]	GIS and Spatial Analysis
GEOL*3130	[0.50]	Agrogeology
LARC*4520	[0.50]	Park and Recreation Administration
MET*3050	[0.50]	Microclimatology
SOIL*3060	[0.50]	Environmental Soil Chemistry
SOIL*3070	[0.50]	Environmental Soil Physics
SOIL*3170	[0.50]	Soil Processes in Landscape
SOIL*3200	[0.50]	Environmental Soil Biology
SOIL*3600	[0.50]	Remote Sensing

## **Bachelor of Science in Technology [B.Sc.(Tech.)]**

The B.Sc.(Tech.) program was designed for students who do not intend to pursue post-graduate studies and are strongly focused on securing industrial employment that makes use of the knowledge acquired in their bachelors degree. This program provides students with the knowledge and skills deemed to be essential by employers and exemplifies the positive benefits of cooperation between colleges and universities. The program combines rigorous theory with practical applications.

For the B.Sc.(Tech.) degree the University offers an honours program requiring the equivalent of 8 semesters of successful full-time study. Two of the semesters will be located at Seneca College in Toronto. The program requires the completion of four co-op work-terms. Students are encouraged to study full-time and to follow the schedule of studies listed below. In the B.Sc.(Tech.) program, 2.50 credits per semester is the normal load for a regular full-time student.

#### **Program Information**

Students are required to follow the pattern of study for one of the two majors offered (Applied Pharmaceutical Chemistry or Physics and Technology) and complete all of the required courses specified in the Schedule of Studies.

Courses taught by Seneca College are noted in the schedule of studies. The course descriptions are in this calendar however detailed course profiles can be accessed through the Seneca College home page.

#### **Entry Credits**

In general, the 4U or OAC 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 in physics

Not more than one of the above will be allowed for credit toward the B.Sc.(Tech.) degree.

#### **Continuation of Study**

Students are advised to consult the University's regulations for continuation of study which are outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures. In addition to the University regulations, students will also be required to achieve a 70% cumulative average by the end of semester 2 due to the required co-op component within this program. Students will be evaluated after semester 2 and those students who have a cumulative average less than 70% but meet the Guelph continuation of study requirements will be withdrawn from the B.Sc.(Tech.) program. Under these circumstances, students in the Applied Pharmaceutical Chemistry major will be automatically moved to B.Sc. Biological Chemistry and those students in the Physics and Technology major will be automatically moved to the B.Sc. Physics major. Students should contact their Program Counsellor regarding co-op appeal procedures.

Note: Students who voluntarily withdraw from co-op will be moved to the B.Sc. majors specified above.

#### **Honours Minors**

Students may wish to add a minor to their major. 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. It may also require certain specified courses. Given the intended technical training of this degree, students have very little flexibility in terms of electives. As such, students wishing to add a minor would be required to enrol in additional semesters of study. Students wishing to take a minor should consult with their program counsellor.

#### **Conditions for Graduation**

In order to qualify for graduation from the B.Sc.(Tech.) program, the student must have successfully completed all of the courses approved for the program, achieved a 60%, or higher, cumulative average and received a minimum grade of satisfactory for the co-op work reports and work performance evaluations.

## **Applied Pharmaceutical Chemistry (APPC:C)**

Department of Chemistry, College of Physical and Engineering Science

#### **Major (Honours Program)**

This major will require the completion of 20.25 credits as indicated below:

#### Semester 1 - Fall

BIOL*1030 CHEM*1040	[0.50] [0.50]	Biology I General Chemistry I		
MATH*1200	[0.50]	Calculus I		
PHYS*1000	[0.50]	An Introduction to Mechanics		
XSEN*2010	[0.50]	Effective Business and Technical Writing		
Semester 2 - Winter				
BIOL*1040	[0.50]	Biology II		
CHEM*1050	[0.50]	General Chemistry II		
COOP*1100	[0.00]	Introduction to Co-operative Education		
MATH*1210	[0.50]	Calculus II		

XSEN\*2020 [0.50] Management Studies: EQ and the New Workplace XSEN\*3030 [0.50] Pharmacology and Applied Toxicology XSEN\*3040 [0.50] Occupational Health and Chemistry XSEN\*3060 [0.50] Pharmaceutical Analysis - Advanced XSEN\*4010 [0.50] Pharmaceutical Calculations Note: All courses in Semester 7 are taught at Seneca College in Toronto. Seneca may change the ordering of the courses offered within semesters 6 and 7.

Semester 7 - Winter

PHYS\*1010

CHEM\*2060

CHEM\*2400

CHEM\*2880

STAT\*2040

COOP\*1000

BIOC\*2580

CHEM\*2070

CHEM\*2700

MICR\*2030

0.50 electives

COOP\*2000

COOP\*3000

BIOC\*3570

CHEM\*3360

CHEM\*3430

CHEM\*3750

0.50 electives Semester 6 - Fall

XSEN\*3020

XSEN\*4020

XSEN\*4030

XSEN\*4040

XSEN\*4050

Fall Semester

Winter Semester

Semester 5 - Summer

CIS\*1200

Semester 3 - Fall

Winter Semester

Semester 4 - Summer

[0.50]

[0.50]

[0.75]

[0.50]

[0.50]

[0.50]

[0.00]

[0.50]

[0.50]

[0.50]

[0.50]

[0.00]

[0.00]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

[0.50]

0.50 credits from an Arts/Social Science electives

Introductory Electricity and Magnetism

Structure and Bonding

Analytical Chemistry I

Introduction to Computing

Introductory Biochemistry

Structure and Spectroscopy

Physical Chemistry

Co-op Work Term I

Organic Chemistry I

Co-op Work Term II

Co-op Work Term III

Analytical Biochemistry

Organic Chemistry II

Pharmaceutical Analysis

Biopharmaceuticals

change the ordering of the courses offered within semesters 6 and 7.

Note: All courses in Semester 6 are taught at Seneca College in Toronto. Seneca may

Pharmaceutical Organic Chemistry

Pharmaceutical Manufacturing

Pharmaceutical Product Formulations

Environmental Chemistry and Toxicology

Analytical Chemistry II: Instrumental Analysis

Microbial Growth

Statistics I

## Summer Semester

COOP*4000	[0.00]	Co-op Work Term IV	
Semester 8 - Fa	all	•	
CHEM*3440	[0.50]	Analytical Chemistry III: Analytical Instrumentation	
On e of:			
CHEM*4730	[0.50]	Synthetic Organic Chemistry	
CHEM*4740	[0.50]	Topics in Bio-Organic Chemistry	
On e of:			
BIOC*4520	[0.50]	Metabolic Processes	
CHEM*3640	[0.50]	Chemistry of the Elements I	
MCB*4050	[0.50]	Protein and Nucleic Acid Structure	
MCB*4080	[0.50]	Applied Microbiology and Biochemistry	
One of:			
BIOM*3100	[0.50]	Mammalian Physiology I	
HK*3940	[1.25]	Human Physiology	
MBG*2000	[0.50]	Introductory Genetics	
PATH*3610	[0.50]	Principles of Disease	
0.50 electives			

### Physics and Technology (PHTC:C)

#### Department of Physics, College of Physical and Engineering Science Major (Honours Program)

Two streams are available. Stream A is different from Stream B in that Stream B offers a double work term following academic semester 6. This major will require the completion of 21.00 credits as indicated below:

### Stream A

Semester 1 - Fall		
BIOL*1030	[0.50]	Biology I
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	Semester 2 - Win	ter	
Semester 2 - Win	ter		CIS*2500	[0.50]	Intermediate Programming
CIS*2500	[0.50]	Intermediate Programming	COOP*1100	[0.00]	Introduction to Co-operative Education
COOP*1100	[0.00]	Introduction to Co-operative Education	MATH*1210	[0.50]	Calculus II
MATH*1210	[0.50]	Calculus II	PHYS*1010	[0.50]	Introductory Electricity and Magnetism
PHYS*1010	[0.50]	Introductory Electricity and Magnetism	PHYS*2040	[0.50]	Fundamental Electronics and Sensors
PHYS*2040	[0.50]	Fundamental Electronics and Sensors	One of:	[0.0.0]	
One of:	[0.00]		CIS*1910	[0.50]	Discrete Structures in Computing I *
CIS*1910	[0.50]	Discrete Structures in Computing I *	0.50 electives	[010 0]	Diserete Structures in Computing I
0.50 electives	[0.00]	Diserete Structures in Computing I		prerequisit	e for many upper level C.I.S. courses
	a prereguisi	te for many upper level C.I.S. courses	Semester 3 - Fall	prerequisit	e for many upper lever e.i.o. courses
Semester 3 - Fall		te for many upper lever e.i.b. courses	MATH*2160	IO 501	Lincon Alashra I
		I waa Alaahaa I		[0.50]	Linear Algebra I
MATH*2160	[0.50]	Linear Algebra I Advanced Calculus I	MATH*2200	[0.50]	Advanced Calculus I
MATH*2200	[0.50]		PHYS*2440	[0.75]	Mechanics I
PHYS*2440	[0.75]	Mechanics I	PHYS*2460	[0.75]	Electricity and Magnetism I
PHYS*2460	[0.75]	Electricity and Magnetism I	One of:	50 503	
One of:	FO		CIS*2030	[0.50]	Structure and Application of Microcomputers
CIS*2030	[0.50]	Structure and Application of Microcomputers	CIS*2910	[0.50]	Discrete Structures in Computing II
CIS*2910	[0.50]	Discrete Structures in Computing II	0.50 electives		
0.50 electives			Winter Semester		
Winter Semester			COOP*1000	[0.00]	Co-op Work Term I
COOP*1000	[0.00]	Co-op Work Term I	Semester 4 - Sum	mer	
Semester 4 - Sum	ımer	-	MATH*2170	[0.50]	Differential Equations I
MATH*2170	[0.50]	Differential Equations I	PHYS*2260	[0.50]	Quantum Physics
PHYS*2260	[0.50]	Quantum Physics	STAT*2040	[0.50]	Statistics I
STAT*2040	[0.50]	Statistics I	One of:	[0.50]	Statistics I
One of:	[0.50]	Sunsues 1	CIS*2030	[0.50]	Structure and Application of Microcomputers
CIS*2030	[0.50]	Structure and Application of Microcomputers	CIS*2030 CIS*2100	[0.50] [0.50]	Scientific Computing and Applications Development
		11 1			
CIS*2100	[0.50]	Scientific Computing and Applications Development	CIS*2520	[0.50]	Data Structures
CIS*2520	[0.50]	Data Structures	CIS*3120	[0.50]	Digital Systems
CIS*3120	[0.50]	Digital Systems	0.50 electives		
0.50 electives			Semester 5 - Fall		
Fall Semester			XSEN*3100	[0.50]	Analog and Digital Communications
COOP*2000	[0.00]	Co-op Work Term II	XSEN*3120	[0.50]	Microprocessors I
Semester 5 - Win	ter	*	XSEN*3130	[0.50]	Object Oriented Programming Using C++
XSEN*3100	[0.50]	Analog and Digital Communications	XSEN*3140	[0.50]	Operating Systems
XSEN*3120	[0.50]	Microprocessors I	XSEN*4130	[0.50]	Networking Essentials
XSEN*3130	[0.50]	Object Oriented Programming Using C++			5 are taught at Seneca College in Toronto.
XSEN*3140	[0.50]	Operating Systems	Semester 6 - Win		
XSEN*4130					Event Driven Drogramming and Visual Dagie
	[0.50]	Networking Essentials	XSEN*4100	[0.50]	Event Driven Programming and Visual Basic
		r 5 are taught at Seneca College in Toronto.	XSEN*4110	[0.50]	Data Acquisition and Control
Summer Semeste			XSEN*4120	[0.50]	Data Communications I
COOP*3000	[0.00]	Co-op Work Term III	XSEN*4140	[0.50]	Technical and Personal Communications
Semester 6 - Fall			One of:	F0 <b>F</b> 03	
XSEN*4100	[0.50]	Event Driven Programming and Visual Basic	XSEN*4150	[0.50]	Microprocessors II
XSEN*4110	[0.50]	Data Acquisition and Control	XSEN*4160	[0.50]	Computer Peripheral Systems
XSEN*4120	[0.50]	Data Communications I			6 are taught at Seneca College in Toronto.
XSEN*4140	[0.50]	Technical and Personal Communications	Summer Semeste	r	
One of:	[]		COOP*2000	[0.00]	Co-op Work Term II
XSEN*4150	[0.50]	Microprocessors II	Fall Semester		1
XSEN*4150 XSEN*4160	[0.50]	Computer Peripheral Systems	COOP*3000	[0.00]	Co-op Work Term III
		Computer relipheral systems	Semester 7 - Win		co-op work remi m
Semester 7 - Win					
PHYS*2450	[0.75]	Mechanics II	PHYS*2450	[0.75]	Mechanics II
PHYS*2470	[0.75]	Electricity and Magnetism II	PHYS*2470	[0.75]	Electricity and Magnetism II
PHYS*3220	[0.50]	Waves and Optics	PHYS*3220	[0.50]	Waves and Optics
One of:			One of:		
CIS*3120	[0.50]	Digital Systems	CIS*3120	[0.50]	Digital Systems
0.50 electives			0.50 electives		
0.50 electives			0.50 electives		
Summer Semeste	er		Summer Semeste	r	
COOP*4000	[0.00]	Co-op Work Term IV	COOP*4000	[0.00]	Co-op Work Term IV
Semester 8 - Fall			Semester 8 - Fall	[0.00]	
				FO 707	
MATH*3100	[0.50]	Differential Equations II	MATH*3100	[0.50]	Differential Equations II
PHYS*3230	[0.50]	Quantum Mechanics I	PHYS*3230	[0.50]	Quantum Mechanics I
PHYS*3240	[0.50]	Statistical Physics I	PHYS*3240	[0.50]	Statistical Physics I
PHYS*4500	[0.50]	Advanced Physics Laboratory	PHYS*4500	[0.50]	Advanced Physics Laboratory
0.50 electives			0.50 electives		
Note: At least 0.50	) in elective	s must be taken from courses in the Arts or Social Sciences.	Note: At least 0.50	) in elective	s must be taken from courses in the Arts or Social Sciences.
Stream B					
Semester 1 - Fall					
BIOL*1030	[0.50]	Biology I			
CHEM*1040	[0.50]	General Chemistry I			
CIS*1500	[0.50]	Introduction to Programming			
MATH*1200	[0.50]	Calculus I			

Calculus I

[0.50]

MATH\*1200

## 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 8 semesters to complete. The college is accredited by the Canadian Veterinary Medical Association, the 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**

- 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. The ability to relate to people is an acquired skill that must be encouraged during the program of study.
- 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 Assistant Dean for Student Affairs 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 Assistant 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.

Students on probation are required to meet regularly with the Assistant Dean so that the student's academic progress is monitored and resource information and assistance is provided to the student. As an aid to improving their academic efficiency all students whose program average (PA) is between 60% and 70% will be sent a letter from the Assistant Dean outlining resources available to them.

### **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.

This Continuation of Study Policy applies to students entering the D.V.M. Program in Fall 2000 and subsequent semesters. For continuation of study, a student must satisfy the conditions as presented below. In order to graduate, students must fulfill the course requirements for the program and have achieved at least a 60% program average. 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).

Students entering the D.V.M. Program prior to Fall 2000 should consult the Undergraduate Program for the year in which they entered the Program.

### **Full-time Study**

The D.V.M. program is offered as a full-time program and normally requires four phases (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 entire phase. A list denoting the consequences of failure of any particular course in the D.V.M. Program is 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\*3480, VETM\*3510, VETM\*4220, VETM\*4450, VETM\*4530, VETM\*4610, VETM\*4620, VETM\*4660, VETM\*4450, VETM\*4680, 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 reult 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\*4520.

This information is also available as part of the Phase Handbooks.

- 3. A student who is required to repeat a course and/or phase will be required to withdraw from the D.V.M. program. A student who is required to withdraw can register in the non-degree D.V.M. program. Non-degree D.V.M. Program status is normally granted for a maximum period of one year. Students must advise the Assistant Dean(s) of the College, in writing by 31 May, of their intention to register the following fall semester in the non-degree program to repeat the failed course and/or phase. Students must normally repeat a failed course and/or phase in the academic year immediately following that in which the failure occurred.
- 4. A student who successfully completes a repeated course and/or phase in the academic year immediately following that in which the failure occurred may re-apply to the D.V.M. program through Admission Services. Applications for readmission must be received by 31 May of the year in which they wish to be considered for readmission. Readmission is not automatic and will be conditional upon availability of space. Students considering readmission should consult the Assistant Dean(s) of the College regarding procedures and criteria for readmission to the D.V.M. program. A student who is readmitted to the D.V.M. program will be subject to the academic rules and regulations in effect for the readmission year.
- 5. A student will be allowed to fail a particular course only once. Any student who fails the same course twice will be ineligible for readmission to the D.V.M. Program.
- 6. Grades obtained by D.V.M. students who repeat one or more VETM course(s) while enrolled in the non-D.V.M. program, 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. The new D.V.M. program average will include the grades obtained in both the original and repeat 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 Assistant 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 8 semester Honours D.V.M. program, the student must have completed successfully the courses approved for the program. Students will not be allowed to graduate while on probation.

## 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.

## **Protective Clothing**

All D.V.M. students will require 3 laboratory coats and 3 pairs of coveralls. Students in Phase 3 must also have 3 surgical suits. Phase 4 students will require an additional 1 of each of the 3 types of protective clothing. Labels with each student's name must be affixed to all items of clothing. All soiled clothing must be laundered through the Veterinary Teaching Hospital's "dirty-in /clean-out" plan. Students must wear steel-capped shoes or boots in the large animal clinic and rubber boots in pathology laboratories. A pair of white shoes and a pair of obstetrical boots must be available in Phase 4. The Veterinary Teaching Hospital will not provide extra protective clothing; however, short white jackets will be provided by the Veterinary Teaching Hospital for Phase 4 students during the small animal medicine rotation.

### Estimate of Expenses

Attention is drawn to Section VI--Schedule of Fees for information on tuition, University student organizations and rabies immunization required for all students in the program. In addition, while the college supplies most laboratory equipment, students may wish to purchase instruments for personal use. Texts, protective clothing, and a minimum of supplies for personal use may cost approximately \$500 per semester.

## Health and Safety

Students must follow the health and safety policies required for the various courses in the veterinary program. Pregnant students and others with increased medical risks should consult Health Services concerning potential health risks which may occur during the normal course of their studies.

Immunization against rabies is a requirement for admission and continuation in the D.V.M. Program. Annual rabies titres and booster immunizations (if necessary) are mandatory for all Program participants. Prospective students and in-course students should contact Student Health Services (519-824-4120 extension 52131) for further information and guidance about the rabies surveillance program. Faculty and staff members should contact Occupational Health Services, extension 52133, for information about medical surveillance programs provided in accordance with University Safety Policy 851.13.03.

## Schedule 4 (D.V.M. Continuation of Study)

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 impact either the PA or PHA Average because they are not attached to any numerical grade.

Students on Probation at the end of Phase 1 or 2 must clear this probationary status by achieving the required PA average by the end of Phase 2 or 3 respectively. If a student does not achieve the required standing by the end of the probationary period he or she will normally be required to withdraw from the program.

Students finishing Phase 3 on probationary status will not be permitted to proceed to the Externship or into Phase 4. 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 Continue. These may include repeating a component of a course, one or more entire courses, an entire Phase, or one or more clinical rotations. The required averages are as follows:

#### For Course Attempts in Phase I

Program Average (PA)	Status of Student	
PA < 50%	Required to Withdraw	
$PA \ge 50\%$ and $PA < 60\%$	Probationary Status	
PA ≥ 60%	Eligible to Continue	

## For Course Attempts in Phase 2 and Beyond

If Eligible to	Continue:

Program Average (PA) and Phase Average (PHA)	Status of Student	
PHA < 50%	Required to Withdraw	
PA or PHA $\ge$ 50% but PA <60%	Probationary Status	
PA and PHA $\geq 60\%$	Eligible to Continue	
If on Probation:	1	
Program Average (PA)	Status of Student	

Required to Withdraw

Eligible to Continue

## $PA \ge 60\%$ Schedule of Studies

## Р

PA < 60%

Phase 1		
VETM*3000	[0.50]	Veterinary Biochemistry
VETM*3070	[2.00]	Veterinary Anatomy
VETM*3080	[1.50]	Veterinary Physiology
VETM*3120	[0.75]	Veterinary Histology
VETM*3210	[0.50]	Art of Veterinary Medicine I
VETM*3390	[0.50]	Veterinary Medical Genetics
VETM*3400	[0.75]	Health Management I
VETM*3430	[0.25]	Clinical Medicine I
Phase 2		
VETM*3220	[0.50]	Art of Veterinary Medicine II
VETM*3410	[0.75]	Health Management II
VETM*3440	[0.50]	Clinical Medicine II
VETM*3450	[2.75]	Principles of Disease in Veterinary Medicine
VETM*3460	[0.75]	Theriogenology
VETM*3470	[0.75]	Anaesthesiology and Pharmacology
VETM*3480	[0.50]	Phase 2: Special Topics
VETM*3510	[0.25]	Principles of Surgery
Phase 3		
VETM*4220	[0.50]	Art of Veterinary Medicine III
VETM*4420	[0.25]	Clinical Pharmacology
VETM*4450	[0.50]	Equine Medicine and Surgery
VETM*4460	[1.00]	Food Animal Medicine and Surgery
VETM*4470	[1.00]	Medicine and Surgery of Dog and Cat
VETM*4480	[0.75]	Comparative Medicine
VETM*4490	[1.00]	Systems Pathology
VETM*4530	[0.50]	Health Management III
VETM*4540	[1.75]	Surgical Exercises
VETM*4870	[0.25]	Clinical Medicine III
Dhoso /		

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:

oman / minut ou	cum.	
VETM*4610	[3.25]	Small Animal Clinics - Small Animal Stream
VETM*4620	[1.00]	Health Management - Small Animal Stream
VETM*4880	[3.25]	Electives in Veterinary Medicine I
VETM*4900	[2.50]	Veterinary Externship
Mixed Stream:		
VETM*4660	[2.00]	Small Animal Clinics - Mixed Stream
VETM*4670	[1.50]	Large Animal Clinics - Mixed Stream
VETM*4680	[2.00]	Health Management - Mixed Stream
VETM*4890	[2.00]	Electives in Veterinary Medicine II
VETM*4900	[2.50]	Veterinary Externship
Equine Stream:		
VETM*4920	[1.50]	Small Animal Clinics - Equine Stream
VETM*4930	[2.50]	Large Animal Clinics - Equine Stream
VETM*4940	[1.50]	Health Management - Equine Stream
VETM*4890	[2.00]	Electives in Veterinary Medicine II
VETM*4900	[2.50]	Veterinary Externship
Food Animal Stre	eam:	
VETM*4710	[1.00]	Large Animal Clinics - Food Animal Stream
VETM*4720	[3.25]	Health Management - Food Animal Stream
VETM*4880	[3.25]	Electives in Veterinary Medicine I
VETM*4900	[2.50]	Veterinary Externship

## **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 and Career Services as suitable learning experiences relevant to the students' area of academic study. A graded work report and 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 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 dependant 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 75% to apply to the co-op program. Once accepted to the University of Guelph, you must maintain a 70% cumulative average in the first 2 semesters (full-time study) in order to remain in the co-op program. For transfer students, you must meet normal admission requirements, as well as complete one academic semester at Guelph in which you achieve a minimum 70% average prior to participating in the co-op process. As well, you must have your academic and work schedule approved. Applicants must be a Canadian citizen or permanent resident/landed immigrant. Applicants holding U.S. citizenship should contact Co-operative Education and Career Services.

#### **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\*1100before 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 www.coop.uoguelph.ca.

#### **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 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 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 work performance evaluation, and the 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 Work Terms with the same employer should consult with their Co-op Faculty Advisor regarding Work Report requirements for eight-month 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 Work Report Evaluation will be given an opportunity to make revisions and resubmit the report. Students who are resubmitting a 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

In the case of a confidential Work Report, the student is responsible for ensuring that a confidential report is acceptable to the Co-op Faculty Advisor and making evaluation arrangements with the co-op Faculty Advisor and the employer.

#### **Conditions for Graduation**

In order to graduate, co-op students must follow the conditions for graduation for their degree program as outlined in the Undergraduate Calendar. In addition, students must receive evaluations of Good or higher in all but one Work Performance Evaluations and an evaluation of Satisfactory or higher in all Work Report Evaluations.

Students wanting to graduate with less than the required number of Work Terms must contact their Co-op Co-ordinator with the request. The Canadian Association for Co-operative Education (CAFCE) guidelines regarding Work Terms will be followed at all times.

#### **Co-op Fees**

Students in Co-op are required to pay a co-op fee each semester (see Section VI--Schedule of Fees). Students who enter Co-op in-course will have an altered payment schedule to be discussed upon admission. There is no application fee.

#### **Schedule of Studies**

Students entering the Co-op program are advised to review carefully the academic semester/work semester sequence as set out in the schedule of studies for the degree programs and specialization offered under Co-operative Education. Normally students must follow the sequence as scheduled. If, under exceptional circumstances, the schedule cannot be followed, the student must obtain written approval of an alternative work and academic semester sequence from the Co-op Coordinator and Co-op Faculty Advisor. In unusual circumstances the Director of Co-operative Education and Career Services may be involved in the approval process.

## University of Guelph-Humber

For University of Guelph-Humber programs please refer to http://www.guelphhumber.ca.

## **Associate Diploma Programs**

For Associate Diploma Programs please refer to the Associate Diploma Program Calendar, available on the world wide web at http://www.uoguelph.ca/diploma\_calendar/.

## XI. Special Study Opportunities

## **Certificates and Diplomas**

The University offers certificate and diploma programs in Applied Statistics, Communication Process, Environmental Citizenship, Environmental Conservation, Food Science, Hospitality Studies, Leadership, and Public Policy and Administration. 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.

For those who are in a degree program or who will be transferring into a degree program, there will be a restriction as to the number of courses which can be used for both a certificate/diploma and a degree specialization. Up to 50% of the requirements for a degree-credit certificate can be applied towards a degree. Note that the Certificate in Leadership is exempt from this restriction.

For more information, please consult with the Program Counsellor for Open Learning (ext. 56050).

## **Certificate in Communication Process**

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 [0.5	[0] Interpersonal Communication	
EDRD*3140*DE [0.5	0] Organizational Communication	
3 of the following 4 cou	irses:	
EDRD*3120*DE [0	0.50] Educational Communication	
EDRD*3160*DE [0	0.50] International Communication	
EDRD*3180*DE [0	0.50] Social Processes in Mediated Communication	
EDRD*4120*DE [0	0.50] Leadership Development in Small Organizations	
For more i	nformation, visit the website at:	
http://www.open.uogue	lph.ca/offerings/program.cfm?PID=75.	

### **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**

2 or 3 of the following:BOT*2000*DE[0.50]Plants, Biology and PeopleECON*1050*DE[0.50]Introductory MicroeconomicsECON*2100*DE[0.50]ECON*2100*DE[0.50]EDRD*3500*DE[0.50]Recreation and Tourism PlanningEDRD*4500*DE[0.50]Planning Industrial EcologyGEOG*1220*DE[0.50]Human Impact on the EnvironmentHIST*2250*DE[0.50]Environment and History	UNIV*2050*DE	[0.50]	Environmental Perspectives and Human Choices I	
ECON*1050*DE[0.50]Introductory MicroeconomicsECON*2100*DE[0.50]Economic Growth and Environmental QualityEDRD*3500*DE[0.50]Recreation and Tourism PlanningEDRD*4500*DE[0.50]Planning Industrial EcologyGEOG*1220*DE[0.50]Human Impact on the Environment	2 or 3 of the follow	2 or 3 of the following:		
ECON*2100*DE[0.50]Economic Growth and Environmental QualityEDRD*3500*DE[0.50]Recreation and Tourism PlanningEDRD*4500*DE[0.50]Planning Industrial EcologyGEOG*1220*DE[0.50]Human Impact on the Environment	BOT*2000*DE	[0.50]	Plants, Biology and People	
EDRD*3500*DE[0.50]Recreation and Tourism PlanningEDRD*4500*DE[0.50]Planning Industrial EcologyGEOG*1220*DE[0.50]Human Impact on the Environment	ECON*1050*DE	[0.50]	Introductory Microeconomics	
EDRD*4500*DE[0.50]Planning Industrial EcologyGEOG*1220*DE[0.50]Human Impact on the Environment	ECON*2100*DE	[0.50]	Economic Growth and Environmental Quality	
GEOG*1220*DE [0.50] Human Impact on the Environment	EDRD*3500*DE	[0.50]	Recreation and Tourism Planning	
	EDRD*4500*DE	[0.50]	Planning Industrial Ecology	
HIST*2250*DE [0.50] Environment and History	GEOG*1220*DE	[0.50]	Human Impact on the Environment	
	HIST*2250*DE	[0.50]	Environment and History	
PHIL*2070*DE [0.50] Philosophy of the Environment	PHIL*2070*DE	[0.50]	Philosophy of the Environment	
POLS*3370*DE [0.50] Environmental Policy Formation and Administration	POLS*3370*DE	[0.50]	Environmental Policy Formation and Administration	
SOIL*2120*DE [0.50] Introduction to Environmental Stewardship	SOIL*2120*DE	[0.50]	Introduction to Environmental Stewardship	
UNIV*3250*DE [0.50] Environmental Perspectives and Human Choices II	UNIV*3250*DE	[0.50]	Environmental Perspectives and Human Choices II	
2 or 3 of the following:	2 or 3 of the follow	wing:		
BIOL*2060*DE [0.50] Ecology	BIOL*2060*DE	[0.50]	Ecology	
BOT*1200*DE [0.50] Plants and Human Use	BOT*1200*DE	[0.50]	Plants and Human Use	
EDRD*3450*DE [0.50] Watershed Planning Practice	EDRD*3450*DE	[0.50]	Watershed Planning Practice	
EDRD*4010*DE [0.50] Tourism Planning in the Less Developed World	EDRD*4010*DE	[0.50]	Tourism Planning in the Less Developed World	
ENVB*3000*DE [0.50] Nature Interpretation	ENVB*3000*DE	[0.50]	Nature Interpretation	
GEOG*2210*DE [0.50] Environment and Resources	GEOG*2210*DE	[0.50]	Environment and Resources	
GEOG*3020*DE [0.50] Global Environmental Change	GEOG*3020*DE	[0.50]	Global Environmental Change	
GEOG*3210*DE [0.50] Management of the Biophysical Environment	GEOG*3210*DE	[0.50]	Management of the Biophysical Environment	
GEOG*3490*DE [0.50] Tourism and Environment	GEOG*3490*DE	[0.50]	Tourism and Environment	
MET*1000*DE [0.50] The Atmospheric Environment	MET*1000*DE	[0.50]	The Atmospheric Environment	
SOIL*3300*DE [0.50] Land Resource Stewardship	SOIL*3300*DE	[0.50]	Land Resource Stewardship	

ZOO\*1500\*DE[0.50]Humans in the Natural World - a Zoological PerspectiveZOO\*2050\*DE[0.50]Natural History of OntarioFor more information, please visit the website at:http://www.environmentalcertificates.com.

## **Certificate in Environmental Conservation**

Developed from a biophysical science perspective, this Certificate is beneficial to those who want to gain knowledge of issues surrounding environmental protection, conservation and preservation, and environmental research. The Certificate consists of six degree-credit distance education courses taken online from the University of Guelph's Faculty of Environmental Sciences. The program is designed to provide participants with the credentials they need for professional advancement in the environment industry and/or personal enrichment. It is structured as follows, requiring six courses total, to include at least two at the 3000 or 4000 level:

#### **Required Course**

SOIL*2120*DE	[0.50] Introduction to Environmental Stewardship				
2 or 3 of the following:					
EDRD*3450*DE	[0.50]	Watershed Planning Practice			
GEOG*1220*DE	[0.50]	Human Impact on the Environment			
GEOG*1300*DE	[0.50]	Introduction to the Biophysical Environment			
GEOL*1100*DE	[0.50]	Principles of Geology			
GEOL*2250*DE	[0.50]	Geology of Natural Disasters			
MET*1000*DE	[0.50]	The Atmospheric Environment			
SOIL*2010*DE	[0.50]	Soil Science			
SOIL*3080*DE	[0.50]	Soil and Water Conservation			
2 or 3 of the follow	ving:				
BIOL*2060*DE	[0.50]	Ecology			
BIOL*3450*DE	[0.50]	Introduction to Aquatic Environments			
ENVB*3000*DE	[0.50]	Nature Interpretation			
ENVB*3040*DE	[0.50]	Natural Chemicals in the Environment			
ENVB*4780*DE	[0.50]	Forest Ecology			
GEOG*2210*DE	[0.50]	Environment and Resources			
GEOG*3020*DE	[0.50]	Global Environmental Change			
GEOG*3210*DE	[0.50]	Management of the Biophysical Environment			
SOIL*3300*DE	[0.50]	Land Resource Stewardship			
ZOO*2050*DE	[0.50]	Natural History of Ontario			
For more information, please visit the website at:					
http://www.environmentalcertificates.com.					

### **Certificate in Food Science**

The Certificate in Food Science program is offered by the Department of Food Science in a distance education mode. Normally, learners will require two years to complete the process. The certificate program is aimed at upgrading individuals who either have a formal university education in an area other than Food Science or have been working in Food Science-related areas but who have no academic background in Food Science. The certificate program concentrates on the chemistry, analysis, microbiology and processing of foods, and on the maintenance of food safety and quality throughout. All courses are offered in an interactive format via the internet.

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

#### **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**

electives in the B.Sc. Food Science Major.

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.

Prior Learning Assessment is in place for this Certificate to evaluate and recognize experience and previous education, including seminars, workshops and corporate training programs. Students may receive credit to a maximum of one credit towards one of the required courses. See Chapter VIII, Prior Learning Assessment, for more information. Individuals interested in PLA should consult with the Program Counsellor at the Office of Open Learning (ext. 56050).

The Certificate requires the five courses listed below:

2007-2008 University of Guelph Undergraduate Calendar

#### **Required Courses**

HTM*2030*DE	[0.50]	Control Systems in the Hospitality Industry		
HTM*2150*DE	[0.50]	Introduction to Canadian Business Management		
HTM*2200*DE	[0.50]	Organizational Behaviour I		
HTM*3000*DE	[0.50]	Human Resources Management		
HTM*3070*DE	[0.50]	Hospitality and Tourism Management Accounting		
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 2.50 credits chosen from the lists below, plus 120 hours of leadership practice, in an approved placement. Some courses require particular prerequisites; it is important to take into account the necessary prerequisites and semester offered when determining the sequence in which courses are taken. Students should consult with the Open Learning program Counsellor at the Office of Open Learning (ext. 56050).

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: http://www.leadershipcertificate.com.

#### 1.00 credits from:

UNIV*2000*DE	[0.50]	Foundations of Leadership	
[students must con	students must contact the Office of Open Learning for instructor consent]		
UNIV*4000*DE	[0.50]		
[students must con	tact the Off	ice of Open Learning for instructor consent]	
0.50 credits from:		· · ·	
PHIL*2120*DE	[0.50]	Ethics	
PHIL*2600*DE	[0.50]	Business and Professional Ethics	
POLS*3440*DE	[0.50]	Corruption, Scandal and Political Ethics	
1.00 credits from:			
ENVS*2010	[0.50]	Decision-making and Communication Skills	
[restricted to B.Sc.	Env. studer	nts only]	
HTM*2150*DE	[0.50]	Introduction to Canadian Business Management	
[Note: B.Comm str	udents may	not take this course for credit in their degree program.]	
EDRD*3140*DE	[0.50]	Organizational Communication	
EDRD*3160*DE	[0.50]	International Communication	
EDRD*4120*DE	[0.50]	Leadership Development in Small Organizations	
HTM*3000*DE	[0.50]	Human Resources Management	
ISS*2500	[0.50]	Management in Organizations	
PHIL*2100*DE	[0.50]	Critical Thinking	
POLS*2250*DE	[0.50]	Public Administration	
POLS*3940*DE	[0.50]	Accountability and Canadian Government	
PSYC*3070*DE	[0.50]	Psychology in Human Resource Management	
PSYC*3080*DE	[0.50]	Organizational Psychology	
SOAN*2040	[0.50]	Globalization of Work and Organizations	
Dinlomo in A.	anlind St	otistics	

#### **Diploma in Applied Statistics**

The Diploma in Applied Statistics is a program offered by the Department of Mathematics and Statistics, which seeks to give students of the Applied Sciences a technical competency in the use and application of Statistics.

The program is intended mainly for those whose primary area of expertise is not in Statistics, but who feel the need to be able to use modern statistical techniques. This program seeks to fill a need of scientists to reach a useful level of competency in the use of statistical methodology.

#### **Diploma Requirements**

The program consists of 5.00 credits chosen from the following list. It is important to take into account the necessary prerequisites when determining the sequence in which the courses are taken. Consult an advisor from the department for assistance.

MATH*2080	[0.50]	Elements of Calculus II
MATH*2150*DE	[0.50]	Applied Matrix Algebra
STAT*2040	[0.50]	Statistics I
STAT*2050	[0.50]	Statistics II
STAT*3100	[0.50]	Introductory Mathematical Statistics I
STAT*3110	[0.50]	Introductory Mathematical Statistics II
STAT*3210	[0.50]	Experimental Design
STAT*3240	[0.50]	Applied Regression Analysis
STAT*3320	[0.50]	Sampling Theory with Applications
STAT*3510	[0.50]	Environmental Risk Assessment
STAT*4050	[0.50]	Topics in Applied Statistics I
STAT*4060	[0.50]	Topics in Applied Statistics II
STAT*4080	[0.50]	Data Analysis

STAT*4350	[0.50]	Applied Multivariate Statistical Methods
STAT*4360	[0.50]	Applied Time Series Analysis
STAT*4510	[0.50]	Advanced Risk Analysis

#### **Diploma in Public Policy and Administration**

The program is designed for those who wish to develop their skills in public sector management and public policy analysis. The requirement of 5.00 credits for the diploma is divided into 2 groups of courses: required courses and elective courses.

Students are encouraged to consult the Diploma in Public Policy and Administration program coordinator or Chair of the Department of Political Science with regard to the availability and on-going development of distance education courses.

#### **Required Courses**

POLS*1400*DE	[0.50]	Issues in Canadian Politics
POLS*2250*DE	[0.50]	Public Administration
POLS*3250	[0.50]	Public Policy: Challenges and Prospects
POLS*3440*DE	[0.50]	Corruption, Scandal and Political Ethics
POLS*4250	[0.50]	Topics in Public Management
Electives - at l	east 2.50	credits must be chosen from the following:
POLS*2300*DE	[0.50]	Canadian Government
POLS*3110	[0.50]	Politics of Ontario
POLS*3210	[0.50]	The Constitution and Canadian Federalism
POLS*3270	[0.50]	Local Government in Ontario
POLS*3280	[0.50]	Modern Political Ideologies
POLS*3330	[0.50]	Politics and Trade Liberalization in the Americas
POLS*3370*DE	[0.50]	Environmental Policy Formation and Administration
POLS*3470	[0.50]	Business-Government Relations in Canada
POLS*3670	[0.50]	Comparative Public Policy and Administration

### **Co-operative Education**

The Co-operative Education option is offered in 36 majors. Co-op provides eligible students with the opportunity to alternate semesters of academic study with semesters of paid work experience. 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).

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.

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.

AGEC*2300*DE	[0.50]	Organic Marketing
ANSC*2340*DE	[0.50]	Structure of Farm Animals
ANTH*1150*DE	[0.50]	Introduction to Anthropology
BIOL*2060*DE	[0.50]	Ecology
BIOL*2210*DE	[0.50]	Introductory Cell Biology
BIOL*3450*DE	[0.50]	Introduction to Aquatic Environments
BIOM*2000*DE	[0.50]	Concepts of Physiology
BIOM*3100*DE	[0.50]	Mammalian Physiology I
BOT*1200*DE	[0.50]	Plants and Human Use
BOT*2000*DE	[0.50]	Plants, Biology and People
BUS*2220*DE	[0.50]	Financial Accounting
BUS*2230*DE	[0.50]	Management Accounting
CHEM*1060*DE	[0.50]	Introductory Chemistry
CHEM*1100*DE	[0.50]	Chemistry Today
CIS*1000*DE	[0.50]	Introduction to Computer Applications
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CIS*1200*DE	[0.50]	Introduction to Computing	HIST*3540*DE	[0.50]	World War Two
CIS*1500*DE	[0.50]	Introduction to Programming	HIST*4050*DE	[0.50]	Topics in Scottish History
CIS*2100*DE	[0.50]	Scientific Computing and Applications Development	HORT*1060*DE	[0.50]	Plant Identification: Woody Plants
ECON*1050*DE	[0.50]	Introductory Microeconomics	HORT*3430*DE	[0.50]	Wine-Grape Culture
ECON*1100*DE	[0.50]	Introductory Macroeconomics	HTM*2030*DE	[0.50]	Control Systems in the Hospitality Industry
ECON*2100*DE	[0.50]	Economic Growth and Environmental Quality	HTM*2150*DE	[0.50]	Introduction to Canadian Business Management
ECON*2310*DE		Intermediate Microeconomics	HTM*2200*DE	[0.50]	Organizational Behaviour I
ECON*2410*DE		Intermediate Macroeconomics	HTM*3000*DE	[0.50]	Human Resources Management
ECON*2770*DE		Introductory Mathematical Economics	HTM*3070*DE	[0.50]	Hospitality and Tourism Management Accounting
ECON*3560*DE		Theory of Finance	HTM*3180*DE	[0.50]	Casino Operations Management
ECON*3660*DE		Economics of Equity Markets	HTM*3780*DE	[0.50]	Economics of Food Usage
ECON*4400*DE		Economics of Organizations and Corporate Governance	HTM*4160*DE	[0.50]	Human Resources Planning
EDRD*2020*DE	[0.50]	Interpersonal Communication	LARC*1950*DE	[0.50]	History of Cultural Form I
EDRD*3120*DE	[0.50]	Educational Communication	LARC*4610*DE	[0.50]	Professional Practice
EDRD*3140*DE	[0.50]	Organizational Communication	MATH*1000*DE	[0.50]	Introductory Calculus
EDRD*3160*DE	[0.50]	International Communication	MATH*2150*DE	[0.50]	Applied Matrix Algebra
EDRD*3180*DE	[0.50]	Social Processes in Mediated Communication	MBG*3060*DE	[0.50]	Quantitative Genetics
EDRD*3450*DE		Watershed Planning Practice	MBG*3090*DE	[0.50]	Applied Animal Genetics
EDRD*3500*DE		Recreation and Tourism Planning	MBG*3600*DE	[0.25]	Introduction to Genomics
EDRD*3550*DE		Economic Development for Rural and Smaller	MCS*1000*DE	[0.20]	Introductory Marketing
EDKD 5550 DE	[0.50]	Communities			
	10 501		MCS*2020*DE	[0.50]	Information Management
EDRD*4010*DE		Tourism Planning in the Less Developed World	MCS*2100*DE	[0.50]	Personal Financial Management
EDRD*4120*DE		Leadership Development in Small Organizations	MCS*3010*DE	[0.50]	Quality Management
EDRD*4500*DE	[0.50]	Planning Industrial Ecology	MCS*3030*DE	[0.50]	Research Methods
ENGL*1200*DE	[0.50]	Reading the Contemporary World	MCS*3040*DE	[0.50]	Business and Consumer Law
ENGL*1410*DE	[0.50]	Major English Writers	MET*1000*DE	[0.50]	The Atmospheric Environment
ENGL*2640*DE	[0.50]	Culture, Location, Identity: Minoritized Literatures in	MUSC*1060*DE	[0.50]	Introduction to Music
		Canada and Beyond	MUSC*1130*DE	[0.50]	Introduction to Musicianship
ENVB*2210*DE	[0.50]	Introductory Apiculture	MUSC*2140*DE		History of Jazz
ENVB*3000*DE		Nature Interpretation	MUSC*2280*DE		Masterworks of Music
ENVB*3040*DE		Natural Chemicals in the Environment	NUTR*1010*DE	[0.50]	Nutrition and Society
ENVB*4780*DE		Forest Ecology	NUTR*2050*DE	[0.50]	Family and Community Nutrition
EURO*1050*DE		The Emergence of a United Europe	PATH*3610*DE	[0.50]	Principles of Disease
EURO*2070*DE		European Integration, 1957-1992	PHIL*2070*DE	[0.50]	Philosophy of the Environment
FOOD*2010*DE	[0.50]	Principles of Food Science	PHIL*2100*DE	[0.50]	Critical Thinking
FOOD*2400*DE	[0.50]	Introduction to Food Chemistry	PHYS*1020*DE	[0.50]	Introductory Physics
FOOD*2410*DE	[0.50]	Introduction to Food Processing	PHYS*1600*DE	[0.50]	Contemporary Astronomy
FOOD*2420*DE	[0.50]	Introduction to Food Microbiology	POLS*1400*DE	[0.50]	Issues in Canadian Politics
FOOD*3430*DE	[0.50]	Introduction to Food Analysis	POLS*1500*DE	[0.50]	World Politics
FOOD*4010*DE		Food Plant Sanitation and Quality Control	POLS*2250*DE	[0.50]	Public Administration
FOOD*4070*DE		Food Packaging	POLS*2300*DE	[0.50]	Canadian Government
FREN*1090*DE		Basic French: Reading	POLS*3370*DE	[0.50]	Environmental Policy Formation and Administration
FREN*1100*DE		•			
		Basic French: Listening	POLS*3440*DE	[0.50]	Corruption, Scandal and Political Ethics
FREN*1120*DE	[0.50]	Basic French: Writing	POLS*3940*DE	[0.50]	Accountability and Canadian Government
		France: Literature and Society	PSYC*1100*DE	[0.50]	Principles of Behaviour
FREN*2500*DE		French Translation I	PSYC*1200*DE	[0.50]	Dynamics of Behaviour
FRHD*1010*DE	[0.50]	Human Development	PSYC*2010*DE	[0.50]	Quantification in Psychology
FRHD*1020*DE	[0.50]	Couple and Family Relationships	PSYC*2310*DE	[0.50]	Introduction to Social Psychology
FRHD*2060*DE	[0.50]	Adult Development and Aging	PSYC*2360*DE	[0.50]	Introductory Research Methods
FRHD*2100*DE	[0.50]	Development of Human Sexuality	PSYC*2390*DE	[0.50]	Principles of Sensation and Perception
FRHD*2110*DE		Exceptional Children and Youth	PSYC*2450*DE	[0.50]	Introduction to Developmental Psychology
FRHD*2260*DE		Infant Development	PSYC*2650*DE	[0.50]	Cognitive Psychology
FRHD*2270*DE		Development in Early and Middle Childhood	PSYC*2740*DE	[0.50]	Personality
FRHD*2280*DE		Adolescent Development			
			PSYC*3010*DE	[0.50]	Compensation Systems
FRHD*3190*DE		Administration of Programs for Children and Youth	PSYC*3020*DE	[0.50]	Psychology of Law
GEOG*1200*DE		Society and Space	PSYC*3060*DE	[0.50]	Occupational Health Psychology
GEOG*1220*DE		Human Impact on the Environment	PSYC*3070*DE	[0.50]	Psychology in Human Resource Management
GEOG*1300*DE	[0.50]	Introduction to the Biophysical Environment	PSYC*3080*DE	[0.50]	Organizational Psychology
GEOG*2210*DE	[0.50]	Environment and Resources	PSYC*3090*DE	[0.50]	Training and Development
GEOG*2510*DE	[0.50]	Canada: A Regional Synthesis	PSYC*3220*DE	[0.50]	Ergonomics: the Scientific Study of People-System
GEOG*3020*DE	[0.50]	Global Environmental Change			Relationships
GEOG*3210*DE		Management of the Biophysical Environment	PSYC*3250*DE	[0.50]	Psychological Measurement
GEOG*3490*DE		Tourism and Environment	PSYC*3340*DE	[0.50]	Psycholinguistics
	[0.50]	Principles of Geology	PSYC*3390*DE	[0.50]	Abnormal Psychology
GEOL*2250*DE		Geology of Natural Disasters	PSYC*3480*DE	[0.50]	Psychology of Sport
HIST*1150*DE	[0.50]	20th-Century Global History	PSYC*3570*DE	[0.50]	The Psychology of Death and Dying
HIST*2000*DE	[0.50]	The British Isles, 1066-1603	PSYC*3710*DE	[0.50]	Psychology of Learning Difficulties and Disabilities I
HIST*2040*DE	[0.50]	War and Society	PSYC*3800*DE	[0.50]	Psychology and Education
HIST*2070*DE	[0.50]	World Religions in Historical Perspective	PSYC*3850*DE	[0.50]	Intellectual Disabilities
HIST*2250*DE	[0.50]	Environment and History	SOAN*2400*DE	[0.50]	Introduction to Gender Systems
HIST*2450*DE	[0.50]	The Practicing Historian	SOC*1100*DE	[0.50]	Sociology
HIST*2610*DE	[0.50]	Contemporary Canadian Issues	SOC*1500*DE	[0.50]	Crime and Criminal Justice
HIST*2830*DE	[0.50]	The Emergence of Modern Germany 1871-1990	SOC*2070*DE	[0.50]	Social Deviance
HIST*3020*DE	[0.50]	Sexuality and Gender in History	SOC*2750*DE	[0.50]	Serial Murder
HIST*3030*DE	[0.50]	Celtic Britain and Ireland to 1066	SOC*2750*DE SOC*3490*DE	[0.50]	Law and Society
		Witch-hunts and Popular Culture			
HIST*3140*DE	[0.50]		SOIL*2010*DE	[0.50]	Soil Science
HIST*3530*DE	[0.50]	Celtic Britain and Ireland Since 1603	SOIL*2120*DE	[0.50]	Introduction to Environmental Stewardship

#### XI. Special Study Opportunities, General Studies

SOIL*3080*DE	[0.50]	Soil and Water Conservation
SOIL*3300*DE	[0.50]	Land Resource Stewardship
SPAN*1100*DE	[0.50]	Introductory Spanish
SPAN*1110*DE	[0.50]	Intermediate Spanish
STAT*2060*DE	[0.50]	Statistics for Business Decisions
THST*2500*DE	[0.50]	Contemporary Cinema
UNIV*2000*DE	[0.50]	Foundations of Leadership
UNIV*2050*DE	[0.50]	Environmental Perspectives and Human Choices I
UNIV*3250*DE	[0.50]	Environmental Perspectives and Human Choices II
UNIV*4000*DE	[0.50]	Leadership Capstone
WMST*1000*DE	[0.50]	Introduction to Women's Studies
ZOO*1500*DE	[0.50]	Humans in the Natural World - a Zoological Perspective
ZOO*2050*DE	[0.50]	Natural History of Ontario
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, VCR, DVD player, etc.) for the specific course(s) in which you are interested.

The courses have been designed and written by experts to meet rigorous standards. Clusters of courses are offered from selected areas of specialization within the University.

The Diploma in Applied Statistics, the Diploma in Public Policy and Administration, the Certificate in Communication Process, the Certificate in Food Science, the Certificate in Hospitality Studies, the Certificate in Environmental Citizenship, the Certificate in Environmental Conservation and the Certificate in Leadership are also offered in the distance education mode in whole or in part (see Certificates and Diplomas in this section for further information).

## **General Studies**

The objective of the General Studies program is to provide mature students with the opportunity to take university courses before registering in a specific degree program or to take university courses for continued learning with no immediate intention of registering in a degree program. The General Studies program does not lead towards a specific undergraduate degree at the University of Guelph. Initially, students register for part time studies only.

#### Academic Counselling

General Studies students can obtain counselling for selecting courses, and planning their future program from the B.A. Counselling Office located in Room 130 MacKinnon Building. Prospective students should contact the Admissions Section of the Office of Registrarial Services.

#### **Financial Assistance**

Students registered in 3 or more courses of the General Studies program are eligible to apply to the Ontario Student Assistance Program (OSAP) if an Ontario resident. Students who are residents of other provinces must apply to their home province for financial assistance. General Studies students are eligible to apply for OSAP assistance for a maximum of two semesters. General Studies students who transfer to a degree program may continue to apply for OSAP.

#### Schedule of Studies

- 1. Students may take any undergraduate course offered by the University, as long as any stated prerequisites are met or the approval of the instructor is obtained.
- 2. Students may take Associate Diploma courses with the approval of the Director of the Associate Diploma program.
- 3. Students will not normally be eligible to continue in the General Studies program after enrolment in 20 courses.
- 4. The grade assigned for each course will become part of the student's University academic record.
- 5. Students who register in the General Studies program and who subsequently apply for transfer to a degree or diploma program, will be required to meet admission requirements for that program, and credit granted for courses taken in the General Studies program will be subject to the regulations pertaining to that program.

#### Tuition Fees

Students are advised to refer to Section VI--Schedule of Fees.

#### **Undergraduate Regulations**

Students are referred to Section VIII--Undergraduate Degree Regulations for additional information regarding registration, course selection, withdrawal from study, continuation of study, examination policy and requests for academic consideration.

#### Graduate Studies

The University of Guelph offers graduate programs in most departments and schools. These post-baccalaureate programs offer opportunities for personal, academic and professional growth. Students with a 70% average or higher should consider and investigate these options, beginning no later than their third undergraduate year. Decisions regarding

the desired area of study and pursuit of scholarship support require forethought and planning. Information, application forms, and counselling are available through the graduate coordinators of each department/school. Students are also welcome to visit the Office of Graduate Program Services, Level 3, University Centre.

The University of Guelph offers opportunities for qualified students to do graduate work leading to the Master of Arts (M.A.), Master of Science (M.Sc.), Master of Landscape Architecture (M.L.A.), Master of Engineering (M.Eng.), Master of Science in Aquaculture (M.Sc. Aqua), Master of Business Administration (M.B.A.), Master of Fine Art (M.F.A.), Master of Science in Planning (M.Sc. Plan), Master of Applied Nutrition (M.A.N.), Doctor of Philosophy (Ph.D.), and Doctor of Veterinary Science (D.V.Sc.) degrees.

## **Interdisciplinary Studies**

The University of Guelph offers many interdisciplinary programs that cross departmental and college boundaries. In addition, specific courses and specializations have been modelled on an interdisciplinary approach to the topic or subject area.

Courses with an interdisciplinary approach and content are listed in Section XII under the following headings: Humanities, Physical Science, and Social Science as well as Interdisciplinary University Courses.

The following list of specializations is not intended to represent all the university's interdisciplinary initiatives. Instead it identifies those specializations that involve a significant degree of collaboration between departments or colleges. For further details, refer to the appropriate undergraduate degree program information in Section IX.

#### **Bachelor of Arts**

Criminal Justice and Public Policy Environmental Studies (Minor) European Studies Information Systems & Human Behaviour International Development Women's Studies

### **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 a B.A. Program

Open Learning program students who have no previous post-secondary experience and have completed four courses, (2.00 credits), with a 70% minimum cumulative average may transfer into the B.A. Program at the University of Guelph.

Applicants are advised to complete two courses (1.00 credit) from the College of Arts and two courses (1.00 credit) in the Social Sciences.

## **Open Learning program Certificates and Diplomas**

Certificate in Communication Process

Certificate in Environmental Citizenship

Certificate in Environmental Conservation

Certificate in Food Science

Certificate in Hospitality Studies

Certificate in Leadership

Diploma in Applied Statistics

Diploma in Public Policy and Administration

(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, VCR, DVD, etc.) for the specific course(s) in which you are interested.

## **Open Learning Scholarships/Bursaries**

## **Open Learning Bursaries**

The Office of Open Learning (OOL) staff and friends have established and contribute annually to a bursary fund. These funds are intended to provide support for non-degree students, in need of financial assistance, who are wishing to enroll in an Office of Open Learning continuing education activity and/or in the Open Learning program (courses, certificates and diplomas). Apply to the Office of Open Learning by January 30th and July 30th for the following Fall and/or Winter and/or Summer semesters of study with a letter of application outlining financial need with pertinent supporting documentation Applications must be submitted to: OOL Bursary Award Committee, Office of Open Learning, University of Guelph, Johnston Hall Room 160, Guelph, Ontario, N1G 2W1.

Qualification(s): Students with the greatest financial need.

## The Malik Scholarship

Awarded in honor of retired faculty member Professor Henrick Malik, of the Department of Mathematics and Statistics in the College of Physical and Engineering Science.

Qualification(s): A student in the Open Learning program who achieves at least 80% and the highest final grade in a given year in the distance education course Statistics for Business Decisions (STAT\*2060\*DE) Amount: One award of \$150

### **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 Program 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)** 

Violence in Families

Intensive Sex Therapy Training Program

Families in Transition: Divorce, Single Parenting and Re-marriage

Change Strategies in Therapy

Research in Marriage and Family Therapy

Professional Issues in Marriage and Family Therapy

Family Therapy and Mental Health

Spirituality: A New Story in Couple and Family Therapy

Couple and Family Therapy with LGBT Clients and their Families

Systemic Approaches with the Addicted Client: Assessment and Intervention

For details and to apply visit http://www.open.uoguelph.ca/certcfts/.

## **Diploma in Agricultural Communications**

The Diploma in Agricultural Communications is designed for students looking to strengthen their ability to communicate complex issues about agriculture, agri-food, the environment and life sciences. Students will enhance and develop skills through their studies, which incorporte communication theory and applied knowledge, resulting in a more effective communicator and professional.

### **Required Courses**

Agricultural Communications Studio I

Agricultural Communications Studio II

Agricultural Communication Theory in Action

Ethics in Leadership

Agricultural Communication Internship

For details and to apply, please visit http://www.agcommunications.ca/.

## **Diploma in Human Resources Management**

Human resources management is a system of interrelated activities including training and development, compensation management, and labour relations that work towards satisfying organizational goals and objectives. Typically, managers in smaller organizations are responsible for these activities in addition to other operational responsibilities. In larger organizations, the human resources department generally has subject specialists who oversee each function area. Regardless of how the system of activities is administered, individuals responsible for managing a group of employees should have a practical understanding of management tools and techniques to effectively work with the most important resource in their organizations - their people.

The Diploma in Human Resources Management program provides essential management foundation skills and knowledge with particular emphasis on relating practitioner principles, policies and procedures to "real world" situations. Courses in the Diploma meet the HRPAO academic program requirements. This program consists of 10 courses and is designed to meet the learning needs of individuals who currently work in a human resources environment or who have ambition to do so.

### **Required Courses**

Human Resources Administration Organization and Management Finance and Accounting Concepts Occupational Health and Safety Salary Administration and Benefits Training and Development Human Resources Labour-Management Relations Human Resource Planning Recruitment and Selection **One of the following two courses by distance education**:

 PSYC\*3070\*DE
 [0.50]
 Psychology in Human Resource Management

 PSYC\*3080\*DE
 [0.50]
 Organizational Psychology

 For details and to apply, please see http://hr.open.uoguelph.ca/.

#### **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. Daily classes in grammar, reading, writing, listening and speaking help students achieve the advanced level English skill needed to be successful in academic studies. A student who successfully completes the Advanced level with an average of 75% earns the University of Guelph Certificate of English Proficiency. Applicants must have a minimum of intermediate level English skill, and have an academic goal to study at a university.

#### Academic Writing at the Graduate Level

This online course introduces future and current graduate students to the writing requirements of graduate study in a Western university. Students study and analyze different types (genres) of writing from the three disciplinary areas of arts, the physical and natural sciences, and the social sciences in order to better understand these texts' function, audience and organization. These texts include abstracts, research proposals and thesis chapters. Through a small selection of readings, students are also introduced to the cultural dimension of graduate study at a Western university.

#### **Graduate Preparation Program**

This intensive academic preparation program for graduate level students is designed to provide a bridge to academic and cultural life in a Western university. Classes in this two-semester program include: Academic Writing Skills, Research Skills, Oral Presentation Skills, Lecture Note-taking Skills, Critical Thinking Skills, Academic Culture and Environment, Teaching Skills for Graduate Assistants, Understanding Canadian Culture and Conversation Practice.

# Academic Writing for Teachers of English as a Foreign Language (EFL), Level 1

This online course is designed to develop and improve the writing skills of English teachers who are not native English speakers, and who are teaching English writing to students planning to study in a Western university. This course takes a functional approach to developing EFL teachers' academic writing skills through the analysis of a number of short texts to learn about different types of academic texts and their purposes. Students develop the language used to describe, reason, analyze and evaluate in a supportive, interactive multimedia environment. The course includes a cultural component as students are introduced to the teaching and learning practices and general expectations of a Western university.

#### **International Student Certificate Program**

This one-year study abroad program is designed for international university students who do not qualify for traditional university exchange programs. The three-semester program can be configured in one of three combinations of English Language Certificate Program and Open Learning program. Participants must be an undergraduate university student in their home country and should have a letter of permission to study at the University of Guelph.

#### **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.

#### The courses are as follows:

Management of the Equine Environment

Health and Disease Prevention

Growth and Development

Functional Anatomy

Equine Nutrition

Exercise Physiology

For details and to apply, please see http://www.equinesciencecertificate.com

#### Landscape/Horticulture Online Certificate Programs

The Landscape/Horticulture Online Certificate Programs include five certificates and over 25 online/web-based courses offered by distance education. Learners may enrol in one or more individual courses or study towards one or more of the certificates.

#### **Creating Landscapes Certificate**

The Creating Landscapes Certificate is designed to provide landscape designers, contractors and gardening enthusiasts with the training and skills necessary for creating desirable outdoor living environments. The program refers to historical influences on modern landscape design and discusses the Design Process. Other topics include management principles for operating a successful business, the physical properties and uses of landscape construction material, and incorporating computer technology in creating successful designs.

#### **Required Courses:**

Landscape Design I

Landscape Design II

Introduction to Landscape Construction

Landscape Plants or Introduction to Plant Identification

Computer Assisted Design

**Business Management Principles** 

For details and to apply, please see http://www.horticulturecertificates.com/.

#### **Maintaining Golf Courses Certificate**

The Maintaining Golf Courses Certificate is designed to provide turf managers and golf superintendents with turf identification and management skills, insight into golf course design and construction techniques, tree care techniques and other best management practices related to the care of golf courses. Challenges such as maintaining healthy playing conditions while respecting environmental needs such as wildlife and water quality are also examined.

#### **Required Courses:**

Turf Management Irrigation Golf Course Design and Construction Weed Management in Turf

Arboriculture

Environmental Management of the Golf Course

For details and to apply, please see http://www.horticulturecertificates.com/.

#### The Horticulturist Certificate

This online certificate is designed especially for gardeners wishing to enhance their knowledge and skills relating to the residential garden environment. The impact of soil conditions are a critical aspect of this study program. Basic horticulture and botany are discussed as are principles of plant care for ensuring optimum health. Students will learn about common plant pests and diseases and their effective treatments. They will begin to create beautiful and hardy landscapes through innovative residential garden design tactics and strategies.

#### **Required Courses:**

Cultural Practices for Plants

Introduction to Plant Identification or Landscape Plants

Designing the Landscape

Ornamental Plant Protection

Introduction to Soils and Plant Growth

Weed Management in Horticulture

Growing Plants

For details and to apply, please see http://www.horticulturecertificates.com/.

#### **Growing Plants for Profit Certificate**

In the Growing Plants for Profit Certificate, students will learn how to effectively grow healthy crops while at the same time implementing sound business practices. Plant propagation techniques are thoroughly discussed as are the specifics of both greenhouse and nursery production. Business skills are offered to guide students through the complexities of running a profitable business operation. Plant identification techniques ensure that learners have a good understanding of the most exciting product choices.

#### Required Courses:

Commercial Floriculture

Landscape Plants or Introduction to Plant Identification

Greenhouse Management

Nursery Production

Plant Propagation

**Business Management Principles** 

For details and to apply, please see http://www.horticulturecertificates.com/.

#### Sustainable Landscapes Certificate

The Sustainable Landscapes Certificate is designed for students who wish to learn about innovative strategies which help fortify the relationships between water and land, ensuring care of both 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 Landscape Plants or Introduction to Plant Identification The Naturalized Landscape An Introduction to Woodland Ecology Arboriculture For details and to apply, please see http://www.horticulturecertificates.com/. **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 <u>cannot</u> 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 <a href="https://webadvisor.uoguelph.ca/">https://webadvisor.uoguelph.ca/</a>> 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.

Some courses are offered in the Guelph-Humber degree program and on the Humber campus only. Those courses will be identified in the course restriction information. See the University of Guelph-Humber web site at for more information about the Guelph-Humber degree programs (http://www.guelphhumber.ca/).

#### **Course Prerequisites**

In lists of course prerequisites, "or" conditions are spelled out explicitly, but "and" conditions are indicated with a comma "," . For example: "CSTU\*2270, FRHD\*2010, NUTR\*2010" means "CSTU\*2270 and FRHD\*2010 and NUTR\*2010". A number of courses have stated prerequisites which are prior requirements for entry to the course. Students who do not satisfy course prerequisites, or who in the opinion of the instructor do not possess an equivalent background to that of the stated prerequisites, are not eligible to enroll in the course. When some specific background is desirable but not required, the course description will include a statement of recommended background. It is understood that the instructor may accept equivalent courses from other institutions in place of the stated prerequisites. Students who wish to enroll in courses for which they do not have the stated prerequisite(s) must obtain instructor approval as outlined in Section VIII, Undergraduate Degree Regulations and Procedures, in this Calendar.

#### **Course Equates and Restrictions**

**Equates** - Equate indicates a course identical to the one under which it is listed. The course may have been re-numbered or may be cross-listed under two subject areas. **Students will not be permitted to register in equated courses.** 

**Restrictions** - A restriction is a "rule" that is placed on the computer system (Colleague) at the direction of an academic department so that particular students may not register in particular courses. The course may be restricted because there is sufficient 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).

370	XII. Course Descriptions, Agricultural Economics
Agricultural Economics	AGEC*3190 Markets, Firms & Natural Amenities F (3-0) [0.50]
Department of Food, Agricultural and Resource Economics	This course deals with how firms use different types of markets related to natural resources
AGEC*1100 Introduction to Business F (3-0) [0.50]	and the environment as they respond to heightened regulatory stringency and increasing environmental compliance costs while attempting to maintain their competitive edge.
This course provides an overview as well as a foundation in the fundamentals of business	This course covers the microeconomic theory of the firm while using case studies from
management. The basic functions of business and management to be examined include:	the business area to illustrate how different markets work for natural resource and
operations, human resources, marketing, finance, and strategic management. Small	environmental commodities. The types of markets and examples of environmental
Business and entrepreneurship are also studied, along with other forms of business	practices that will be discussed include: direct markets for resource and environmental
ownership, competition within a global economy, and the political and economic realities	amenities and markets for pollution; and indirect markets such as final goods market, the capital market and the market for new technologies.
of business in Canada today. Students will develop basic competencies in business management through assignments and case studies requiring the practice of learned	-
theory.	Prerequisite(s): 1 of AGEC*2700, ECON*2100, ECON*2310
Equate(s): BADM*1000	AGEC*3250 Food, Nutrition & International Development F (3-0) [0.50]
Restriction(s): Registration in BBRM.	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
AGEC*1300 Poverty, Food & Hunger W (3-0) [0.50]	economic analysis can enhance understanding of processes of international development
This course examines the nature of poverty, food security and hunger at both the local	in the contemporary world with a particular focus on food and nutrition. Students are
and global levels. In so doing, it explores the nature of international development more	encouraged to consider critically an economic approach to the analysis of development
broadly and its relevance to students studying a wide range of disciplines. It aims to	issues related to food and nutrition, alongside the perspectives of other social science
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	disciplines. Throughout the course, food and nutrition as development issues are considered in the global context, especially related to trade.
insecurity and hunger might be alleviated.	Prerequisite(s): ECON*1050, (AGEC*1300 or ECON*1100)
AGEC*2110 Sales and Society F (3-2) [0.50]	AGEC*3310 Operations Management F,W (3-0) [0.50]
The course is geared towards the global impact of trade on local sales environments.	The decision-making role of the operations manager in transforming inputs into desired
Students will learn the selling techniques and skills necessary to assess sales scenarios	outputs is the primary focus of this course. The major issues and problems of designing,
and react accordingly. Sales presentations will be covered extensively as well as buyer	scheduling, operating, and controlling the production system will be examined.
motivation and behaviour. Students will have ample opportunity to practice their sales	<i>Prerequisite(s):</i> AGEC*2220 or BUS*2220
skills through real-world cases and role-playing activities.	<i>Restriction(s):</i> Priority Access course. Enrolment may be restricted to particular
<i>Restriction(s):</i> Registered in B.B.R.M.	programs or specializations. See department for more information.
Location(s): Ridgetown	AGEC*3400 Agribusiness Financial Management F (3-0) [0.50]
AGEC*2300 Organic Marketing F,W (3-0) [0.50]	The course will focus on the application of principles and tools of finance to managerial
Economic theory of markets principles are applied to the marketing of organically-produced and processed products, through exploring open market price	problems in agribusiness, food and resource industries. The focus is on evaluating and
formation, value added, marketing margins, alternative marketing outlets and branding.	controlling profitability, growth, risks, and liquidity in agribusiness firms. Key concepts covered in the course include, credit, leverage, capital budgets, and capital costs. These
Adherence to organic production and marketing standards, quality management, supply	concepts are applied using financial analysis and developed in the context of farming
chain management, and advertising and promotion issues are also addressed. (Offered in distance education format only.)	and agribusiness. The course also examines how and from whom farmers and agribusinesses obtain loans.
Prerequisite(s): MCS*1000 or ECON*1050	Prerequisite(s): AGEC*2230 or BUS*2230
Location(s): Kemptville	<i>Restriction(s):</i> Registration in B.Comm. AGBU, AGBU Co-op, B.Sc.(Agr.) AGEC or B.A. AGEC.
AGEC*2410 Agrifood Markets and Policy W (3-0) [0.50] Students will be provided with an introduction to agrifood markets, policies and	AGEC*4000 Agricultural and Food Policy W (3-0) [0.50]
institutions. Focus will be placed on: the role and function of futures markets; domestic	A critical analysis of agricultural income, marketing, adjustment and trade problems and
agrifood policies; and agrifood trade policies, instruments and institutions. Economic	policies in the developed countries, with particular emphasis on Canadian agricultural
analysis of contemporary issues in agrifood markets will be emphasized.	policies.
Prerequisite(s): AGR*2400	<pre>Prerequisite(s): 15.00 credits including ECON*2310</pre>
Co-requisite(s): ECON*2310	AGEC*4210 World Agriculture and Economic Development F (3-0) [0.50]
Restriction(s): AGR*2402	The role of agriculture in economic development. Analyses of economic policies and
AGEC*2700 Survey of Natural Resource Economics F (3-0) [0.50] This course examines how humans, within a society, allocate natural resources - e.g.,	programs in developing countries and their effect on economic development.
water, land, forests, and fisheries. Economic concepts and methods provide the basis for	<i>Prerequisite(s):</i> 10.00 credits including ECON*1050 and ECON*1100
discussing and understanding both the use and misuse of natural resources.	AGEC*4220 Advanced Farm Management W (2-3) [0.50]
Prerequisite(s): ECON*1050	A course oriented toward practical application of theory and analytical principles to the
AGEC*3030 The Firm and Markets F (3-1) [0.50]	identification, analysis and solution of farm business organization/management problems. Students work on a major farm project as management consultants with a farm
A course in microeconomic theory applied to agricultural economics research. The theory	owner/operator. The course builds upon students' prior training in accounting, finance,
of the firm is used to analyze production and resource use in agriculture. Resource	mathematical analysis, computer applications, economics, agriculture and farm
allocation issues, risk responsive decision-making, and firm strategy on vertical and	management.
horizontal integration are studied. Consumer theory is used to analyze food purchase	<i>Prerequisite(s):</i> 1 of AGEC*2410, AGEC*3320, AGR*2402, BUS*3320,
decision. How theoretical relationships are quantified and used in the analysis of public policy issues is emphasized.	ECON*2770, instructor's consent
Prerequisite(s): ECON*2310, ECON*2770, ECON*3740	AGEC*4240 Futures and Options Markets W (3-0) [0.50]
AGEC*3170 Cost-Benefit Analysis W (3-0) [0.50]	An introduction to the study of the theory and application of futures, options and other
This course covers the principles and applications of cost-benefit analysis (CBA) in	derivative instruments for marketing, hedging, investment and speculative purposes.
environmental and natural resource issues. This course will present basic concepts and	Emphasis is placed on applications of agricultural and financial instruments to real business situations.
principles, supplemented with case studies of projects applying CBA to illustrate the	
different issues arising from the use of the CBA technique. Quantitative exercises	<i>Prerequisite(s):</i> 1 of AGEC*2410, AGEC*3320, AGR*2402, BUS*3320, ECON*3560, ECON*3660
involving analysis of actual environmental and natural resource data will be used to	ECON 5500, ECON 5000
illustrate the mechanics of established valuations methods such as contingent valuation,	
hedonic approach and travel cost approach.	
<i>Prerequisite(s):</i> 1 of AGEC*2700, ECON*2100, ECON*2310	

#### AGEC\*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): AGEC\*2700 or ECON\*2310

AGEC\*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, ECON\*2310, ECON\*2100, instructor consent

#### AGEC\*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

#### AGEC\*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 AGEC*2230, BUS*2230, COST*2600
	, MCS*2600)
Equate(s):	MCS*4370
Restriction(s):	Priority Access course. Enrolment may be restricted to particular

programs or specializations. See department for more information.

#### AGEC\*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

#### AGEC\*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
Restriction(s):	Permission of the instructor and Chair of the Department of Food,
	Agriculture and Resource Economics is required.

#### AGEC\*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

 Restriction(s):
 Permission of the instructor and Chair of the Department of Food, Agriculture and Resource Economics is required.

Agriculture	AGR*2500 Field Trip in International Agriculture W (3-0) [0.50]
Ontario Agricultural College, Dean's Office	A 2 week field study program to Costa Rica costing approximately \$2000 per student in
AGR*1050 Communication Skills W (3-2) [0.50]	addition to regular tuition fees during winter semester reading week. Students will visit corporate and individual farms, university and government research stations and become
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. <i>Restriction(s):</i> Registered in B.B.R.M. Instructor consent required. <i>Location(s):</i> Ridgetown, Kemptville	familiar with agricultural production systems. Projects and/or assignments will be completed during the winter semester. Classes are scheduled to meet once a week in the evening during the winter semester. It is important that students identify their interest in taking this course by contacting the OAC Dean's Office in September of the previous year. A deposit of \$875 in the form of a cheque made payable to the University of Guelph must be in the OAC Dean's Office by November in order to confirm a reservation for travel arrangements. Scholarship support is available to B.SC.(AGR.) students through
AGR*1100 Introduction to the Agrifood Systems F (2-3) [0.50]	the Cavers Memorial Scholarship and the Wolff International Scholarships. Applications are due in Student Financial Services, Office of Registrarial Services by April 1. This
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. <i>Restriction(s):</i> AGR*1150, UNIV*1500, enrolment in the B.Sc. (Agr.), B.COMM.	course must be recorded as part of your Winter course selection and tuition and compulsory fees will be calculated accordingly. <i>Prerequisite(s):</i> AGR*1250 or registration in International Development <i>Restriction(s):</i> Registration in B.Sc.(Agr.) or B.A.(I.D.). Instructor consent required.
(Ag. Bus.), or B.A. (Ag. Ec.) program	AGR*3010 Special Studies in Agricultural Science I S,F,W (3-0) [0.50]
AGR*1250 Agrifood System Trends & Issues W (3-2) [0.50]	A special study option that enables undergraduate students in semesters 5 through 8 to
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.	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.
AGR*2030 Pasture Management F (2-2) [0.50]	Prerequisite(s): 10.00 credits
This course focuses on forage and weed identification, establishing, maintaining and	Restriction(s): Instructor consent required.
<ul> <li>improving pasture for grazing or cropping, and environmental and conservation stewardship approaches to pasturelands. (First offering Fall 2008.)</li> <li><i>Prerequisite(s):</i> BIOL*1040, SOIL*2010</li> <li><i>Restriction(s):</i> Registered in B.B.R.M. Equine Management.</li> <li><i>Location(s):</i> Kemptville</li> </ul>	AGR*3500 Experiential Education F (0-0) [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.
AGR*2100 Human Resource Management W (3-2) [0.50]	The employer will also provide a description of the project and/or the work experience.
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.	The course is designed to meet the needs of B.SC.(Agr.), B.B.R.M. and Agricultural Business students. <i>Prerequisite(s):</i> 5.00 credits <i>Restriction(s):</i> Instructor consent required.
Restriction(s): Registered in B.B.R.M.	AGR*4010 Special Studies in Agricultural Science II S,F,W (3-0) [0.50]
Location(s): Ridgetown, Kemptville AGR*2320 Soils in Agroecosystems F (3-3) [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
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	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. <i>Prerequisite(s):</i> 15.00 credits <i>Restriction(s):</i> Instructor consent required.
plans will be placed in the broader context of provincial policies related to soil, air and	AGR*4050 Professionalism and Agrology W (3-0) [0.50]
<pre>water resources and local zoning regulations. Prerequisite(s): BIOL*1040, CHEM*1040, MATH*1080 Restriction(s): AGR*2301/2, SOIL*2010</pre>	This course is designed for students in the final year of the B.SC.(Agr.) program who wish to understand the responsibilities of professionals in agrology and the responsibilities that professional organizations have in Ontario and Canada. The course is offered in
AGR*2350 Animal Production Systems and Industry F (3-3) [0.50]	conjunction with the Ontario Institute of Agrologists and will be offered in a series of ten 3-hour evening sessions. The first three sessions will deal with the topics of
This course is designed to give students an overview of animal production systems and will consist of lectures dealing with major farm livestock species. Laboratories correlate with lectures and involve field trips, video and computer analyses of production alternatives. <i>Prerequisite(s):</i> BIOL*1030 or BIOL*1040	professionalism, ethics and professional development and utilize materials prepared jointly by the OIA and OAC Access. The remainder of the course will be comprised of discussions of ethical issues and workshops that will help students develop their personal professional development plan, improve their personal resume, and provide a framework for identifying potential professional employment opportunities.
AGR*2400 Economics of the Canadian Food System F (3-1) [0.50]	Prerequisite(s): 15.00 credits
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. <i>Prerequisite(s):</i> AGR*1250, ECON*1050 <i>Restriction(s):</i> AGR*2401/2  AGR*2470 Introduction to Plant Agriculture F (3-3) [0.50]	AGR*4450 Research Project I S,F,W (0-12) [1.00] Independent study of a current topic in Agriculture designed to encourage senior undergraduates to conduct research in Agriculture. 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 6, 7, and 8 of the B.SC. (Agr.) degree program.
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. <i>Prerequisite(s):</i> BIOL*1030 <i>Restriction(s):</i> AGR*2451/2	<ul> <li>This course will normally be followed by AGR*4460 to provide 2 semesters to complete the research project.</li> <li><i>Prerequisite(s):</i> Completion of semester 5 of the B.Sc. (Agr.) program, 70% cumulative average.</li> <li><i>Restriction(s):</i> AGR*4400, permission of the course coordinator (contingent on the availability and agreement of a faculty advisor)</li> </ul>

#### AGR\*4460 Research Project II S,F,W (0-12) [1.00]

Independent study of a current topic in Agriculture designed to encourage senior undergraduates to conduct research in Agriculture. 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 7 and 8 of the B.SC. (Agr.) degree program.

*Prerequisite(s):* AGR\*4450

Restriction(s): AGR\*4500, permission of the course coordinator and faculty advisor

#### AGR\*4500 Agrifood Industry Problem-Solving W (1-6) [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.

Animal Science	
Department of Animal and Poultry Science	ę

## ANSC\*2330 Horse Management Science F (3-2) [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. Laboratories are designed to familiarize the student with current management and handling techniques in addition to augmenting information presented in lectures.

## Prerequisite(s): BIOL\*1040 or consent of the instructor

## ANSC\*2340 Structure of Farm Animals W (3-1) [0.50]

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

## ANSC\*2360 Challenges and Opportunities in Animal Production F (2-3) [0.50]

This course consists of lecture presentations on current aspects of beef cattle, dairy cattle, swine and poultry production. Selected projects in these areas expose students to the practical application of animal science to production systems.

Prerequisite(s): AGR\*2350

AGR\*2360. Registration in B.Sc.(Agr.), B.Comm.(Ag.Bus.), or B.Sc. Restriction(s): Animal Biology.

## ANSC\*3050 Aquaculture: Advanced Issues F (3-0) [0.50]

This course examines the fundamental principles and advanced interdisciplinary issues involved in the farming of aquatic organisms. The course will concentrate primarily on finfish species due to their worldwide commercial importance. Lectures will cover fish physiology, behaviour, nutrition, genetics, water quality, health and disease, reproductive techniques, economic, political and legal issues and various culture technologies. Students will analyze contemporary challenges facing the aquaculture industry through exercises requiring interdisciplinary knowledge, lateral thinking, creative problem solving and bridging science and technology to issues management. (Offered in odd-numbered years.)

Prerequisite(s):	A minimum of 8.00 credits in biology, including AGR*2350 or
	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, digestive, endocrine and reproductive systems. The lectures and laboratories are closely integrated.

Prerequisite(s): BIOC\*2580

## ANSC\*3120 Introduction to Animal Nutrition F (3-2) [0.50]

The application of principles of nutrition to the development of diets and feeding programs for the various species of animals of agricultural importance.

Prerequisite(s): NUTR\*3190 or NUTR\*3210

## 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, ammonotelic animals mainly carnivorous, contrasted with warm blooded ureotelic omnivores. (Offered in even-numbered years.)

Prerequisite(s): NUTR\*3190 or NUTR\*3210 NUTR\*3340

Equate(s):

## 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) [0.50]

Students will be introduced to the major ethical theories that deal with humanity's duties to animals. The relationship of ethics to science will be discussed. Factors that contribute to the quality of life of animals will be considered and methods of assessing animal welfare will be described. Common causes of reduced animal welfare will be covered. The course will also deal with how different cultures approach animal welfare and attempt to regulate it.

Prerequisite(s): A minimum of 7.50 credits including AGR\*2350 ANSC\*3150 Restriction(s):

## ANSC\*3300 Animal Reproduction W (3-0) [0.50]

The course supplies basic knowledge to aid in the explanation of reproductive phenomena in domestic animals. Special attention will be given to the regulatory mechanisms of male and female fertility.

Prerequisite(s): ANSC\*3080 Restriction(s): ANSC\*4120

## 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

## 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\*4130 Reproductive Management and Technology W (3-2) [0.50]

Management of reproductive events at the farm level in the major classes of domestic livestock. An introduction to modern and emerging reproductive technologies as these relate to livestock propagation.

Prerequisite(s): ANSC\*3300 or ANSC\*4120

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 beet cattle and diagnosing nutritional deficiencies will be included.

Prerequisite(s): ANSC\*3120

ANSC\*4160 Restriction(s):

## ANSC\*4270 Dairy Cattle Nutrition W (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]	ANSC*4710 Research in Animal Biology II S,F,W (0-6) [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. <i>Prerequisite(s):</i> ANSC*3120 <i>Restriction(s):</i> ANSC*4180	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.
ANSC*4290 Swine Nutrition F (3-0) [0.50]	Prerequisite(s): 14.00 credits Restriction(s): Registration in Animal Biology Major Instructor consent required
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. <i>Prerequisite(s):</i> ANSC*3120 <i>Restriction(s):</i> ANSC*4190	<i>Restriction(s):</i> Registration in Animal Biology Major. Instructor consent required.
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.	
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 Immune Mechanisms of Animals 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. <i>Prerequisite(s):</i> 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. <i>Prerequisite(s):</i> 14.00 credits <i>Restriction(s):</i> Registered 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\*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 Restriction(s): ANTH\*4230

#### 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. (Offered in even-numbered years.)

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), SOAN\*2120

#### ANTH\*3690 History of Anthropological Thought F (3-0) [0.50]

This course offers a historical survey of the main trends in anthropological theory from the 19th century to the present.

Prerequisite(s): ANTH\*2160, ANTH\*2230, SOAN\*2120

ANTH\*3770 Kinship and Social Organization W (3-0) [0.50]

This course will deal with the theoretical implications of the study of kinship systems for an analysis of human society in general, including a comparative study of the social organization of kinship-based societies.

Prerequisite(s): ANTH\*2160, ANTH\*2230, SOAN\*2120

#### ANTH\*3840 Seminar in Anthropology F,W (3-0) [0.50]

This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

*Prerequisite(s):* 10.00 credits including ANTH\*2160, SOAN\*2120

#### ANTH\*3850 Seminar in Anthropology F,W (3-0) [0.50]

This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 10.00 credits including ANTH\*2160, SOAN\*2120

#### ANTH\*3950 Special Projects in Anthropology S,F,W (3-0) [0.50]

This special study option/reading course is designed to provide advanced undergraduates with an opportunity to explore independently the frontiers and foundations of a field of knowledge. Under supervision, the student will study in greater depth topics related to regular upper-level courses offered in the department which the student has taken or is taking. Permission of the instructor who will be supervising the study is required.

Prerequisite(s): 10.00 credits

Restriction(s): Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.

#### ANTH\*4300 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

#### 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 Set	minar in Anthropology F,W (3-0) [0.50]
interests of the fa outlines will be seminar courses	be offered as a structured seminar on various topics depending upon the culty member teaching the course. Topics will be announced and course available at course selection. The availability of third and fourth year will vary. Students must check with the Department of Sociology and see when seminar courses are available.
Prerequisite(s):	12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070
ANTH*4840 Set	minar in Anthropology F,W (3-0) [0.50]
interests of the fa outlines will be seminar courses Anthropology to	be offered as a structured seminar on various topics depending upon the culty member teaching the course. Topics will be announced and course available at course selection. The availability of third and fourth year will vary. Students must check with the Department of Sociology and see when seminar courses are available.
Prerequisite(s):	12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070
ANTH*4880 Sp	ecial Projects in Anthropology S,F,W (3-0) [0.50]
with an opportun knowledge. Und regular upper-lev	y/reading course option is designed to provide advanced undergraduates ity to explore independently the frontiers and foundations of a field of er supervision, the student will study in greater depth topics related to /el courses offered in the department which the student has taken or is on of the instructor who will be supervising the project is required.
Prerequisite(s): Restriction(s):	12.50 credits Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.
ANTH*4890 Sp	ecial Projects in Anthropology S,F,W (3-0) [0.50]
with an opportun knowledge. Und regular upper-lev	y/reading course option is designed to provide advanced undergraduates ity to explore independently the frontiers and foundations of a field of er supervision, the student will study in greater depth topics related to /el courses offered in the department which the student has taken or is on of the instructor who will be supervising the project is required. 12.50 credits Instructor consent required. Please note, a student is allowed a total of
	1.00 credits only for reading courses.
	nours Anthropology Thesis I S,F,W (3-0) [0.50]
	d design of an honours thesis proposal conducted under the supervision ber. Recommended to honours major students.
Prerequisite(s): Restriction(s):	15.00 credits including ANTH*3690, (SOAN*3070 or SOAN*3120) Instructor consent required. As well as a cumulative average of 70% in all Sociology and Anthropology courses.
ANTH*4910 Ho	nours Anthropology Thesis II S,F,W (3-0) [0.50]
Completion and	presentation of honours thesis.
Prerequisite(s):	ANTH*4900 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.

#### 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-grade 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]

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.

#### ARTH\*2060 Aboriginal Arts in the Americas W (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.

#### ARTH\*2070 Art of the USA F (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.

#### 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.

#### 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).

Equate(s): 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.

#### ARTH\*2290 History of Photographic Media W (3-0) [0.50]

An introduction to the history of photography through to its application in contemporary visual arts.

#### ARTH\*2480 Introduction to Art Theory and Criticism F (3-0) [0.50]

This course provides an overview of some of the most significant methodological approaches and critical practices used by art historians to write about visual culture. Traditional methods of art historical analysis include connoisseurship, iconography, and formalism. With these we will be exploring newer 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.

# *Prerequisite(s):* (2 of ARTH\*1220, ARTH\*1510, ARTH\*1520), (1 of SART\*1050, SART\*1060)

#### 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.

#### 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".

#### ARTH\*2550 The Italian Renaissance F (3-0) [0.50]

An investigation of 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, Verrocchio 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.

#### 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.

#### ARTH\*2600 Early Modern Art to 1900 W (3-0) [0.50]

A study of visual culture as it was transformed by the revolutions - industrial, political, and colonial - of the eighteenth and nineteenth centuries. (Offered in even-numbered years.)

#### 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.

## 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. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

#### ARTH\*3050 Pre-Columbian Art F (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.

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.

*Prerequisite(s):* 10.00 credits including 2.00 credits in Art History.

#### ARTH\*3100 Perspectives: Structure & Space in Western Art F (3-0) [0.50]

This course investigates the visual arts in Europe with special emphasis on issues of illusionism, mimesis, and the representation of space. (Offered in even-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

#### ARTH\*3150 Space: Roman Art and Urbanism W (3-0) [0.50]

Roman art and urbanism from the Early Republic to the end of the imperial period. The course will survey the developments of Roman art with an emphasis in architecture, sculpture and painting. It will illuminate the development of the urban space in the context of cultural, social and political life. (Also listed as CLAS\*3150). (Offered in even-numbered years.)

*Equate(s):* CLAS\*3150 *Restriction(s):* ARTH\*3530, ARTH\*4500

## ARTH\*3200 Colour: Practice & Meanings in Western Art W (3-0) [0.50]

This course explores the role colour has played in the work of selected artists and periods. *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 and Identity in Art F (3-0) [0.50]	ARTH*4060 Seminar in the Americas II 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	Selected topics in the visual arts of the Americas with special emphasis on the arts in Canada and the USA. <i>Prerequisite(s):</i> A minimum of 14.00 credits including 1 of ARTH*2070, ARTH*2490
identity in cultural institutions (including museums, and international art events) in cultural policy, and in cultural forms (fine art and popular culture, journals and	ARTH*3010, ARTH*3060, ARTH*3220           Restriction(s):         ARTH*4250
periodicals).	ARTH*4150 Seminar in Western Art I W (3-0) [0.50]
<i>Prerequisite(s):</i> 10.00 credits including 2.00 credits in Art History.	This course examines selected topics in the area of Western Art.
ARTH*3310 Image: Pictures & Their Power W (3-0) [0.50]	<i>Prerequisite(s):</i> A minimum of 14.00 credits including (ARTH*2540 or ARTH*354).
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	ARTH*4160 Seminar in Western Art II F (3-0) [0.50]
and iconophilia.	This course examines selected topics in the area of Western Art.
Prerequisite(s):10.00 credits including 2.00 credits in Art History.Equate(s):ARTH*3540	Prerequisite(s): A minimum of 14.00 credits including 1 of ARTH*2550, ARTH*295 ARTH*3100, ARTH*3550, ARTH*3640
ARTH*3320 Lives: Aspects of Western Art W (3-0) [0.50]	ARTH*4550 Questions in Criticism 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	This course examines selected topics in the area of Art Theory, Critical Methodolog and Museology.
'Artist', the artist's audiences, and the various contexts that inform artists' lives, real and imagined. (Offered in even-numbered years.)	Prerequisite(s): A minimum of 14.00 credits including (ARTH*2480 or ARTH*3210
Prerequisite(s): 10.00 credits including 2.00 credits in Art History.	ARTH*4600 Individual Study - Art History S,F,W (3-0) [0.50]
Equate(s): ARTH*3550	Each student establishes, in consultation with the faculty member chosen, the content of this special study within the area of expertise of that instructor.
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	<i>Restriction(s):</i> This course is available with the approval of the Director for studen
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	who have completed their 5th semester and for whom there is no suitable course available.
considered.	ARTH*4620 Museum Studies W (3-0) [0.50]
Prerequisite(s):10.00 credits including 2.00 credits in Art History.Equate(s):ARTH*3570	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 result of the art museum in western life and the critical day-to-day management of
ARTH*3340 The Art Object & Material Culture F (3-0) [0.50]	contemporary one. Students will participate, when possible, in the preparation of a curre
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	or forthcoming exhibition in the Centre. <i>Prerequisite(s):</i> 10.00 credits
of works of art. (Offered in odd-numbered years.) (First offering Fall 2009.)	ARTH*4850 Honours Thesis I S,F,W (0-9) [0.50]
Prerequisite(s):       10.00 credits including 2.00 credits in Art History.         Equate(s):       ARTH*3640	Under the guidance of a faculty member over two semesters (ARTH*4850 in the fin semester and ARTH*4860 in the second semester), the honours student will research
ARTH*3460 English Art, 1750 to Present F (3-0) [0.50]	and complete a major independent project in art history or criticism for final approv
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.	<ul> <li>by a faculty member. Recommended for all honours students.</li> <li><i>Restriction(s):</i> 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.</li> </ul>
Prerequisite(s): Admission to London Semester	ARTH*4860 Honours Thesis II S,F,W (0-9) [0.50]
ARTH*3520 Idea: Art Since 1950 F (3-0) [0.50]	Under the guidance of a faculty member over two semesters (ARTH*4850 in the fin
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.	semester and ARTH*4860 in the second semester), the honours student will researce and complete a major independent project in art history or criticism for final approv by a faculty member. Recommended for all honours students.
Prerequisite(s): 10.00 credits.	<i>Prerequisite(s):</i> ARTH*4850 <i>Restriction(s):</i> Instructor consent and approval of the Director required.
ARTH*3640 Objects: Baroque Art and Rococo Art F (3-0) [0.50] Selected topics investigating the visual arts in Italy, Spain, and France. These may include	······································
the study of key practitioners, the development of a complex artistic theory that reflects patterns of local and national discourse and instruction in the arts, the emergence of female artists. Key artists are Caravaggio, Bernini, Artemisia Gentileschi, Borromini, Velazquez et al. (Offered in odd-numbered years.) (Last offering Fall 2007.)	
Prerequisite(s): 10.00 credits	
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.	
Prerequisite(s): 10.00 credits including 2.00 credits in Art History.	
ARTH*4050 Seminar in the Americas I W (3-0) [0.50]	
Selected topics in the visual arts of the Americas with special emphasis on Pre-Columbian, Latin American, or Aboriginal arts.	
Prerequisite(s): A minimum of 14.00 credits including 1 of ARTH*2050, ARTH*2060, ARTH*3050, ARTH*3220	

Arts and Sciences	ASCI*4010 Arts and Sciences Honours Research Seminar W (3-0) [0.50]
Dean's Office, College of Arts Registration in ASCI* courses is limited to students in the Bachelor of Arts and Sciences degree program.	Under faculty supervision students will plan, develop, peer-edit and complete a major paper on a research topic developed in ASCI*4000 or revised therefrom. Designed to function as a senior-level writing seminar, this course is particularly recommended to students who plan to pursue graduate study and who have a cumulative average of at
ASCI*1000 Society and Science I: Historical Perspectives F (3-0) [0.50]	least 75%.
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	Prerequisite(s):ASCI*4000Restriction(s):Registration in the Bachelor of Arts and Sciences degree program.
social and cultural contexts.	ASCI*4020 Topics in Arts and Sciences Research F,W (3-0) [0.50]
<i>Restriction(s):</i> HIST*1250. Registration in the Bachelor of Arts and Sciences degree program.	This variable-content course provides a senior-level seminar experience in the conduct,
ASCI*1010 Society and Science II: Current Issues W (3-0) [0.50]	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.)
This interdisciplinary course examines scientific and technological activities in modern	Prerequisite(s): 12.00 credits including ASCI*2000
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.	<i>Restriction(s):</i> Registration in the Bachelor of Arts and Sciences degree program.         ASCI*4030 Topics in Arts and Sciences Research F,W (3-0) [0.50]
Prerequisite(s): ASCI*1000	
<i>Restriction(s):</i> Registration in the Bachelor of Arts and Sciences degree program.	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
ASCI*2000 Modes of Inquiry and Communication Across Disciplines F,W (3-0) [0.50]	of Arts and Sciences degree program. (See the B.A.S. website for topics.) <i>Prerequisite(s):</i> 12.00 credits including ASCI*2000
This course considers the process of inquiry and quest for knowledge in the natural and	<i>Restriction(s):</i> Registration in the Bachelor of Arts and Sciences degree program.
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	ASCI*4700 Independent Studies in Arts/Sciences S,F,W (3-0) [0.50]
<ul> <li>shape inquiry, including funding for research, and consider the communication of findings, both inside and outside the academy.</li> <li><i>Prerequisite(s):</i> ASCI*1000</li> <li><i>Restriction(s):</i> Registration in the Bachelor of Arts and Sciences degree program.</li> </ul>	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
ASCI*3000 Arts and Sciences Community Project W (0-3) [0.50] This course integrates the curricular, co-curricular and cross-disciplinary strands of the	learning contracts and other requirements that must be completed well in advance to permit registration for independent studies.
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	Prerequisite(s):       A minimum of 14.00 credits.         Restriction(s):       Registration in the Bachelor of Arts and Sciences degree program. Instructor consent required.
agency appropriate to that topic. (See the B.A.S. program website for topics.)	ASCI*4710 Independent Studies in Arts/Sciences S,F,W (3-0) [0.50]
Prerequisite(s):         ASCI*2000           Restriction(s):         ASCI*3100. Registration in the Bachelor of Arts and Sciences degree program.	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
ASCI*3100 Case Studies in Arts and Sciences Research F (3-0) [0.50]	appropriate to B.A.S. students. See the B.A.S. website for learning contracts and other
This variable-content course introduces students to case studies in the integration of academic knowledge and practices with social movements, investigating the ways in which cultural, social, and scientific endeavours meet to work on real-world problems. The course may contain both historical and current case studies.	requirements that must be completed well in advance to permit registration for independent studies. <i>Prerequisite(s):</i> ASCI*4700 <i>Restriction(s):</i> Registration in the Bachelor of Arts and Sciences degree program.
Prerequisite(s):       ASCI*2000         Restriction(s):       ASCI*3000. Registration in the Bachelor of Arts and Sciences degree program.	Instructor consent required.
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*4000 Arts and Sciences Honours Seminar F,W (3-0) [0.50]	
This senior-level integrating course builds on the principles learned in ASCI*2000, and requires research into an area of investigation relevant to the interdisciplinary focus of the program. Students will examine a topic from multiple theoretical and disciplinary perspectives, explore appropriate methodological approaches, prepare working	
bibliographies and annotations, and report on research. Students who take ASCI*4010 will build on work completed in ASCI*4000. <i>Prerequisite(s):</i> 12.00 credits including ASCI*2000	
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 Prerequisite(s):
 12.00 credits including ASCI\*2000

 Restriction(s):
 Registration in the Bachelor of Arts and Sciences degree program.

## XII. Course Descriptions, Biochemistry

## Biochemistry

Department of Molecular and Cellular Biology

## BIOC\*2580 Introductory Biochemistry S,F,W (3-3) [0.50]

The evolution, chemical structure, and biological roles of the major molecular components of the cell: proteins, nucleic acids, lipids, and carbohydrates, enzymology, intermediary metabolism, with emphasis on catabolic processes.

## *Prerequisite(s):* CHEM\*1050 or CHEM\*2300

## BIOC\*3560 Structure and Function in Biochemistry F,W (3-0) [0.50]

This course develops the understanding of biochemical processes, by examining the enzymatic molecular mechanisms underlying specific cellular and physiological systems. Examples may include oxygen binding/transport and the evolution of globin genes/proteins; regulation of carbohydrate and lipid metabolism; proteins that change shape, including enzymes, membrane proteins, and prion proteins, blood clotting; neurotransmission.

Prerequisite(s): BIOC\*2580

## BIOC\*3570 Analytical Biochemistry S,F (3-3) [0.50]

The tools and techniques by which biological molecules are isolated, separated, identified, and analyzed. Detailed discussion of experimental methods for macromolecule purification characterization.

Prerequisite(s):(CHEM\*2400 or CHEM\*2480), BIOC\*2580Restriction(s):MICR\*3110

## BIOC\*4520 Metabolic Processes F (3-0) [0.50]

An in-depth study of the role of bioenergetics, regulation, and chemical mechanisms in carbohydrate, lipid, and nitrogen metabolism.

*Prerequisite(s):* BIOC\*3560 or BIOC\*3570

## BIOC\*4540 Enzymology W (3-4) [0.50]

A laboratory-intensive course. Enzyme active sites and the mechanisms of enzyme action; enzyme kinetics and regulation; recombinant proteins and site-directed mutagenesis as tools for understanding enzymes.

Prerequisite(s): BIOC\*3560 (may be taken concurrently), BIOC\*3570

BIOC\*4580 Membrane Biochemistry W (3-0) [0.50]

An examination at the molecular level of structure and functions of cell membranes, cell surfaces and associated structures. Topics may include: membrane lipids; membrane protein structure; membrane transporters; ATP production; cytoskeleton; cell surface carbohydrates; membrane biogenesis; signal transduction.

Prerequisite(s): BIOC\*3560 or BIOC\*3570

## Biology

Department of Human Health and Nutritional Sciences Department of Integrative Biology

Department of Molecular and Cell Biology

#### BIOL\*1020 Introduction to Biology F (3-2) [0.50]

This course will introduce important concepts concerning the organization of life on our planet, from cells to ecosystems. The dynamic and interactive nature of all living systems will be emphasized. This course will be valuable for students without 12U or OAC biology who are interested in environmental issues, medicine, advances in biotechnology and related topics.

*Restriction(s):* BIOL\*1030, BIOL\*1040, or equivalent

#### BIOL\*1030 Biology I F,W (3-3) [0.50]

A lecture and laboratory course which introduces the concepts and controversies in contemporary biology and their implications. Using an integrative approach, the course examines some of the basics of biology and two of the common challenges of life, acquisition and processing of nutrients and information flow. How these challenges are faced by animals, microbes and plants and the diversity of structures and processes that have evolved in response to them will be discussed. This is the first course in a two course biology series. When you select it, you are strongly advised to take the second course, BIOL\*1040, immediately thereafter. Material from BIOL\*1030 will be referred to in BIOL\*1040 to emphasize the integrated nature of biology. Students lacking 4U or OAC Biology should consult with their program counsellor prior to taking BIOL\*1030.

### BIOL\*1040 Biology II F,W (3-3) [0.50]

A continuation of BIOL\*1030. A lecture and laboratory course which continues with additional challenges of life faced by animals, microbes and plants and the diversity of structures and processes that have evolved in response to them. To indicate the value of biology to society, some topical issues in biology will be addressed. This is the second course in a two course biology series and should be taken immediately after successfully completing BIOL\*1030. Materials introduced in BIOL\*1030 will be built on and referred to in BIOL\*1040.

#### Prerequisite(s): BIOL\*1030

#### BIOL\*2060 Ecology F,W (3-1) [0.50]

This is a basic course that presents a discussion of the ecology of plants, animals, fungi and bacteria as individual organisms, interacting populations, communities and ecosystems. Lectures and discussion groups are used to demonstrate the tremendous difficulty of interpreting ecological data derived from field studies. The value of laboratory-based research in ecology will also be discussed. The course will be important for anyone who wishes to understand what we know and need to know about the way ecological systems work. Department of Integrative Biology. (Also offered through distance education format.)

#### *Prerequisite(s):* BIOL\*1040

#### BIOL\*2210 Introductory Cell Biology S,F,W (3-0) [0.50]

The structure and function of eukaryotic cells with emphasis on multicellular organisms. Role of subcellular structures and organelles in cellular processes of bioenergetics, division, differentiation, motility, secretion, nutrition, and communication. (Also offered through distance education format.)

Prerequisite(s): BIOL\*1040

#### BIOL\*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. Weekly computer laboratory sessions will focus on practical data visualization and statistical analysis using computer statistical packages. Simple parametric and nonparametric methods are reviewed, followed by more advanced topics that will include some or all of the following: two factor ANOVA and multiple regression, and introductions to discriminant analysis, cluster analysis, principle components analysis, logistic regression, and resampling methods. (Also listed as STAT\*2250.) Departments of Mathematics and Statistics and Integrative Biology.

Prerequisite(s):	STAT*2040 or STAT*2100
Equate(s):	STAT*2250
Restriction(s):	STAT*2050

#### BIOL\*3010 Laboratory and Field Work in Ecology F (0-6) [0.50]

This course emphasizes field and laboratory work in ecology. Students will gain experience in experimental designs, sampling, analysis and interpretation of data collected to answer ecological questions. Local field sites will be used to run in-course experiments. Critical thinking about ecological issues relevant to society will be emphasized. Department of Integrative Biology.

*Prerequisite(s):* BIOL\*1040 or STAT\*2040 *Co-requisite(s):* BIOL\*2060 or BIOL\*3110

#### BIOL\*3050 Mycology W (3-3) [0.50]

This course provides an introduction to the fungal lifestyle and to classification and evolution of the major groups of fungi, including microfungi, yeasts and other eukaryotic microbes. The characteristics of fungal cell structure, genetics and metabolism will be presented, and fungal reproduction and sporulation processes discussed with reference to the life cycles of representative forms. The ecological and economic importance of fungi will be demonstrated by considering fungal ecology, symbiotic relationships, mycotoxins and pathogenic fungi and industrial applications of fungi and yeasts. Laboratory work will provide familiarity with procedures for culturing, examining and identifying fungi and yeasts. Department of Integrative Biology and Department of Mollecular and Cellular Biology.

Prerequisite(s): BOT\*2100 or MICR\*2030
Restriction(s): BOT\*3200, MICR\*3100

#### 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 concentrate on a variety of population processes, including predator-prey interactions, spatial dynamics, and disease-host interactions, and consider how these processes affect population dynamics. A quantitative approach emphasizing the use of mathematical models, graphical analysis, and statistics will provide the basic conceptual framework, which will be illustrated by selected case studies. Department of Integrative Biology.

Prerequisite(s): (MATH\*1080 or MATH\*1200), STAT\*2040

#### BIOL\*3120 Community Ecology F,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]

An introduction to the biological basis for the management of wild, living resources, including freshwater and marine fish and wild life. Topics will include an overview of processes related to resource population abundance and dynamics, theory and practice of sustained-yield harvesting, and conservation and restoration of endangered species and/or ecosystems. Both theoretical and applied aspects of resource management will be emphasized. Department of Integrative Biology.

Prerequisite(s): BIOL\*3110

#### BIOL\*3300 Applied Bioinformatics W (3-2) [0.50]

New molecular genetic and information technologies have enabled biologists to produce and to access large and informative data sets. This course will provide an introductory understanding of the databases and methods used in computational molecular data analysis. Topics covered will include introducing the UNIX-related operating system, reviewing major molecular databases and their structures, constructing sequence alignments, constructing phylogenies, and finding motifs and genes in biological sequences. Lab sessions will include an introduction to Unix and Perl for the biologist and hands-on use of several molecular data analysis programs.

Prerequisite(s): MBG\*2020, (STAT\*2040 or STAT\*2100)

#### BIOL\*3450 Introduction to Aquatic Environments F,W (3-3) [0.50]

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. (Also offered through distance education format.)

*Prerequisite(s):* BIOL\*1040, (CHEM\*1050 or CHEM\*1310), ZOO\*2070 is strongly recommended

#### BIOL\*4050 Advanced Eukaryotic Microbiology F (3-0) [0.50]

This course will focus on several selected topics concerning yeasts, fungi, and protists. It will emphasize the ecology of fungi in natural environments, fungi pathogens of animals and plants, use of yeasts and fungi as model systems in biology, and other topics in contemporary eukaryotic microbiology. Department of Integrative Biology and Department of Molecular and Cellular Biology. (Offered in even-numbered years.)

*Prerequisite(s):* BIOL\*3050

#### BIOL\*4060 Restoration Ecology W (3-1) [0.50]

An overview of the process used to restore naturally occurring ecological systems that have been degraded by human activity. Students will review restoration projects in Canada and abroad, to become more familiar with experimental design, analysis and data management, as it is currently used in restoration ecology. Emphasis will be placed on the scientific method and the role of ecological theory. Political, social, and economic aspects of restoration will also be considered. Department of Integrative Biology.

#### *Prerequisite(s):* BIOL\*2060 or (BIOL\*3110 and BIOL\*3120)

#### 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):* MBG\*3000 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]

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, (MBG\*3000 or ZOO\*3300)

#### BIOL\*4150 Wildlife Conservation and Management W (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 single populations, long-term persistence of ecological communities, harvesting, bio-economics, and habit modification. Department of Integrative Biology.

Prerequisite(s):BIOL\*3110 or BOT\*2050Restriction(s):ZOO\*4110

## **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 of Physiology F,W (3-0) [0.50]

An introductory course covering the fundamental integrative aspects of human physiology. The basic physiology of the cardiovascular, respiratory, gastrointestinal, nervous, endocrine, renal and reproductive systems will be discussed. (Also offered in distance education Format.)

*Restriction(s):* ANSC\*3080, BIOM\*3100, HK\*3940, ZOO\*3200, ZOO\*3210. Not available to B.Sc. Students in biological science specializations.

#### BIOM\*3000 Mammalian Neuroanatomy W (3-2) [0.50]

The basic organization of the mammalian nervous system. Includes 3 dimensional examination and dissection of the spinal cord, brain stem, cerebellum and cerebral hemispheres and study of serial sections. Emphasis is on the morphological basis of function.

Prerequisite(s): 1 of BIOL\*1040, PSYC\*2410, equivalent

BIOM\*3010 Laboratory Animal Anatomy F (2-3) [0.50]

The anatomy of common laboratory animals including primates. Emphasis is placed on similarities of the basic mammalian plan. Functional differences are considered. An introduction to avian anatomy is included.

Prerequisite(s): BIOL\*1040

#### BIOM\*3030 Biomedical Histology F (3-3) [0.75]

This histology course is designed for students with interests in Bio-Medical Sciences and Toxicology. Basic tissue types and major organ systems, will be examined focusing on structural/functional relationships. Human and common experimental mammals will be emphasized.

#### *Prerequisite(s):* BIOL\*2210, BIOC\*2580

*Restriction(s):* Priority Access Courses. Enrolment may be restricted to particular programs or specializations. See department for more information.

## BIOM\*3040 Medical Embryology W (2-3) [0.50]

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 mentioned.

Prerequisite(s): BIOL\*1040 (an anatomy course 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):* BIOC\*2580, (1 of BIOM\*3100, HK\*3940, ZOO\*3200) *Co-requisite(s):* if BIOM\*3100 taken, BIOM\*3110

BIOM\*3100 Mammalian Physiology I F (3-0) [0.50]

The first part of a two-semester sequence. A series of lectures concerning the normal functioning of the body treating in a detailed manner the physiology of the nervous, endocrine, and reproductive systems.

Prerequisite(s): BIOC\*2580

#### BIOM\*3110 Mammalian Physiology II W (3-0) [0.50]

This second lecture course in mammalian physiology deals with the cardiovascular and digestive systems and with homeostasis as reflected in respiratory and renal function.

*Prerequisite(s):* BIOM\*3100 or HK\*3940

#### BIOM\*3120 Laboratory Exercises in Mammalian Physiology W (0-3) [0.25]

A series of laboratory exercises in which the students measure cardiovascular, neuromuscular and respiratory parameters on themselves using a computer based acquisition system. These exercises complement the lectures in BIOM\*3100, BIOM\*3110, and HK\*3940.

*Prerequisite(s):* BIOM\*3100 or HK\*3940 *Co-requisite(s):* BIOM\*3110

#### BIOM\*4010 Teratology F (2-3) [0.50]

The principles and practices of the study and analysis of birth defects in individuals and populations will be examined through lectures, lab projects and seminars. An on-going theme is the medical, social and moral/ethical impact of birth defects and testing for teratogenic safety.

*Prerequisite(s):* (1 of BIOM\*3010, HK\*3402, ZOO\*2090), (BIOM\*3040 or ZOO\*2100), (BIOM\*3120 or HK\*3940 )

## BIOM\*4020 Physiology of Digestion F (3-1) [0.50]

A comparative study of the function and control of the mammalian digestive system with an emphasis on domestic species and on the human. (Offered in even-numbered years.)

*Prerequisite(s):* 1 of BIOM\*3110, HK\*3940, ZOO\*3210, or instructor consent.

#### 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, 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): BIOC\*2580, [1 of BIOM\*3110, HK\*3940, (ZOO\*3200, ZOO\*3210)]

#### BIOM\*4050 Biomedical Aspects of Aging F (3-0) [0.50]

Aging is accompanied by alterations in the physiological and biochemical functioning of body organ systems. The relationship between aging and the cardiovascular, respiratory, digestion/nutrition and reproductive systems will be discussed as will homeostatic functions associated with bone metabolism and fluid balance.

*Prerequisite(s):* BIOM\*3110 or HK\*3940

#### BIOM\*4090 Pharmacology F (3-0) [0.50]

Topics covered in this course include drugs used in the treatment of inflammatory, allergic, hormonal, infectious, neoplastic and hemorrhagic/thromboembolic disease. The focus will be on drug targets and mechanisms of action that explain therapeutic and toxicological effects.

*Prerequisite(s):* BIOM\*3090

#### BIOM\*4110 Mammalian Reproductive Biology F (2-2) [0.50]

This multidisciplinary course provides an introduction to various aspects of mammalian reproduction of medical and veterinary significance. The course will cover the normal physiology and gross and micro anatomy of the female and male reproductive systems including the brain. Placentation will also be addressed. The impact of the normal biology on social issues will be discussed.

*Prerequisite(s):* (1 of BIOM\*3010, HK\*3402, ZOO\*2090), (BIOM\*3030 or ZOO\*3000), (1 of BIOM\*3110, HK\*3940, ZOO\*3210)

BIOM\*4120 Mammalian Reproductive Biotechnologies W (2-2) [0.50]

This course examines medically significant aspects of applied mammalian reproduction in detail. The pre-clinical medical disciplines will provide the basis for the analysis of key reproductive processes, which will be presented in the context of modern techniques and applications of reproductive manipulation and biotechnologies, and the ethical problems they pose.

#### Prerequisite(s): BIOM\*3040, BIOM\*4110, ZOO\*2100

#### BIOM\*4420 Research Modules W (0-6) [0.50]

This course is taught as a series of modules on various research topics, techniques and approaches that are current in laboratories of the Departments of Biomedical Sciences and Human Health and Nutritional Sciences. 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 hands-on research experience.

Prerequisite(s):	14.00 credits. Recommended: HK*4410
Equate(s):	HK*4420
Restriction(s):	BIOM*4510, BIOM*4521/2, HK*4360, HK*4371/2. Instructor consent
	required.
	1
BIOM*4500 Re	search in Biomedical Sciences I S,F,W (0-6) [0.50]
	1

Students work under the supervision of individual faculty. Faculty consent must be obtained prior to being admitted into the course by the course coordinator. *Prerequisite(s):* 14.00 credits

Restriction(s): Instructor consent required. Enrolment restricted to Bio-Medical Science majors or Neuroscience minors.

BIOM*4510 Res	search in Biomedical Sciences II S,F,W (0-12) [1.00]
biomedical scient biochemistry). St	nduct independent laboratory research on a current topic in any of the ces (such as anatomy, physiology, pharmacology, toxicology, genetics, udents work under the supervision of individual faculty. Faculty consent prior to being admitted into the course by the course coordinator.
Prerequisite(s): Restriction(s):	14.00 credits BIOM*4521/2. Instructor consent required. Enrolment restricted to Bio-Medical Science majors or Neuroscience minors.
BIOM*4521 Res	search in Biomedical Sciences II S,F,W (0-6) [0.50]
First part of the t description.	wo-semester course BIOM*4521/2. Refer to BIOM*4521/2 for course
Prerequisite(s): Restriction(s):	14.00 credits BIOM*4510. Instructor consent required. Enrolment restricted to Bio-Medical Science majors or Neuroscience minors.
BIOM*4521/2 R	esearch in Biomedical Sciences II S-F,F-W,W-S [1.00]
physiology, phar	rch of a current topic in any of the biomedical sciences (such as anatomy, nacology, toxicology, genetics, biochemistry). Students work under the lividual faculty. Faculty consent must be obtained prior to being admitted
into the course b consecutive sem- semester and BI	y the course coordinator. This is a two-semester course offered over
into the course b consecutive sem- semester and BI	y the course coordinator. This is a two-semester course offered over esters. When you select it you must select BIOM*4521 in the first OM*4522 in the second semester. A grade will not be assigned in 1 BIOM*4522 has been completed.
into the course b consecutive sem semester and BI BIOM*4521 unti <i>Prerequisite(s):</i> <i>Restriction(s):</i>	y the course coordinator. This is a two-semester course offered over esters. When you select it you must select BIOM*4521 in the first OM*4522 in the second semester. A grade will not be assigned in 1 BIOM*4522 has been completed. 14.00 credits BIOM*4510. Instructor consent required. Enrolment restricted to

Prerequisite(s): BIOM\*4521.

# Botany

Department of Integrative Biology

Department of Molecular and Cellular Biology

Additional course listings may be found in the course descriptions for Biology and Plant Biology.

Senior students are encouraged to inquire about graduate courses, particularly in the areas of Vascular Plant Systematics and Morphology, that can be taken for credit.

#### BOT\*1200 Plants and Human Use W (3-0) [0.50]

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. (Also offered through distance education format.)

Restriction(s): BIOL\*1030, BIOL\*1040

#### BOT\*2000 Plants, Biology and People F (3-1) [0.50]

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.

*Prerequisite(s):* BIOL\*1040 *Restriction(s):* BOT\*1200

#### BOT\*2030 Plants in the Ontario Landscape F (3-3) [0.50]

In this course you will learn to identify plants and their habitats in the Ontario landscape. In addition, you will apply methods typically used for field studies in plant biology. Through a series of field exercises, this course will foster an appreciation of local natural areas and provide a foundation for further studies and careers in ecology and environmental assessment.

*Prerequisite(s):* BIOL\*1040

#### BOT\*2050 Plant Ecology F (3-3) [0.50]

This course supplies the tools needed to assess plant populations and communities quantitatively. Field work is carried out at semi-natural sites on campus to provide practical experience in data collection. These data are analyzed to address conceptual and practical issues raised in lectures. This course is especially valuable for students interested in plant or wildlife biology and in environmental management.

*Prerequisite(s):* BIOL\*1040

#### BOT\*2100 Life Strategies of Plants F,W (3-3) [0.50]

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.

Prerequisite(s): BIOL\*1040

#### BOT\*3310 Plant Growth and Development W (3-3) [0.50]

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 "hands-on" laboratories.

*Prerequisite(s):* BIOL\*1040

### BOT\*3410 Plant Anatomy F (3-3) [0.50]

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.

*Prerequisite(s):* BIOL\*1040

#### BOT\*3710 Classification and Morphology of Seed Plants W (3-3) [0.50]

The interpretation of floral and vegetative morphology for purposes of classification and identification of flowering plants and conifers; flower and cone structure as related to function; principles of plant classification, fundamentals of nomenclature and economic importance of selected plant families are covered. Labs stress interpretation of plant form and plant identification at the ranks of family to species by use of a key to the flora of North-Eastern North America.

Prerequisite(s): BOT\*2100

#### 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.

Prerequisite(s): BIOL\*1040, BIOC\*2580

# **Business**

Business	
Department of Bı	usiness - College of Management and Economics
BUS*2220 Finar	ncial Accounting F,W (3-0) [0.50]
principles and th The course appro	course designed to develop an understanding of current accounting eir implication for published financial reports of business enterprises. aches the subject from the view of the user of accounting information f a person who supplies the information. 1 of ECON*1050, ECON*1100, ENGG*3240 AGEC*2220 Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.
BUS*2230 Mana	agement Accounting F.W (3-0) [0.50]
management dec	phasizes the use of accounting information to facilitate effective isions. Topics include cost determination, cost control and analysis, -volume analysis and capital investment analysis. AGEC*2220 or BUS*2220
Equate(s): Restriction(s):	AGEC*2230 Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.
BUS*3320 Finar	ncial Management F,W (3-0) [0.50]
The focus is on t intermediate term	ken in the course is that of the senior financial officer of a business firm. he management of cash, accounts receivable, inventory and short and liabilities. Emphasis is placed on the analysis and forecasting of financial nancial modeling for planning and controlling the growth of the business
Prerequisite(s): Equate(s): Restriction(s):	<ol> <li>of AGEC*2230, BUS*2230, HAFA*3070, HTM*3070</li> <li>AGEC*3320</li> <li>Registration in BCOM programs, BA Management Economics</li> <li>programs, BA International Development area of emphasis Economic</li> <li>&amp; Business Development or BA European Studies area of emphasis</li> <li>in European Business Studies.</li> </ol>
BUS*3330 Inter	mediate Accounting F (3-0) [0.50]
the traditional an the effect of alt	tion of accounting concepts, principles and practices in relation to both d current value accounting measurement models. Emphasis will be on ernative accounting practices and measurement models on income d asset valuation. 10.00 credits including AGEC*2220 or BUS*2220 AGEC*3330
BUS*4250 Busir	ness Policy F,W (3-0) [0.50]
Business policy i upon the formati- enable the studen in analyzing com <i>Prerequisite(s):</i> <i>Equate(s):</i> <i>Restriction(s):</i>	is a synthesis of the principles of business management with emphasis on of business decisions and policies. The purpose of this course is to t to draw on analytic tools and factual knowledge from all other courses prehensive business problems. AGEC*3310, (AGEC*3320 or BUS*3320), ECON*3560 AGEC*4250 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 Appl	ied Business Project I S,F,W (3-0) [0.50]
year students in a <i>Prerequisite(s)</i> :	based independent study course on a business issue for third or fourth an agreed program of study with the instructor. 10.00 credits
Restriction(s):	AGEC*4550. Instructor consent required.
	ied Business Project II S,F,W (3-0) [0.50]
	des an opportunity to conduct a second independent study on a business fourth year students in an agreed program of study with the instructor. BUS*4550 AGEC*4560. Instructor consent required.

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Chemistry	CHEM*2700 Organic Chemistry I S,W (3-3) [0.50]
Department of Chemistry Credit may be obtained in only 1 of CHEM*1040, CHEM*1100; 1 of CHEM*2400, CHEM*2480; 1 of CHEM*2820, CHEM*2880. *A 1 hour tutorial is scheduled in the third hour of the time slot. Laboratory period extends 3 hours.	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. <i>Prerequisite(s):</i> CHEM*1050
Laboratory Deposit: During the first week of classes, a refundable laboratory deposit	Restriction(s): CHEM*2300
of \$10.00 will be collected from each student who registers in any of the courses in	CHEM*2820 Thermodynamics and Kinetics F (3-3) [0.50]
Chemistry, designated below by the symbol "+". Breakages will be charged against this leposit.	The laws and applications of chemical thermodynamics and chemical kinetics.
CHEM*1040 General Chemistry I F,W (3-3) [0.50]	Prerequisite(s): CHEM*1050, (MATH*1210 or MATH*2080) Restriction(s): CHEM*2880
A course which introduces concepts of chemistry, the central link between the physical	CHEM*2880 Physical Chemistry F (3-2) [0.50]
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. <i>Prerequisite(s):</i> 1 of 4U Chemistry, OAC Chemistry (or equivalent), CHEM*1060	A survey course for students who are not specializing in chemistry or chemical physics. Topics include basic thermodynamics, chemical equilibrium, macromolecular binding, chemical kinetics, enzyme kinetics, transport processes, colligative properties and spectroscopy. This course describes macroscopic observable properties of matter in terms
Restriction(s): CHEM*1100, CHEM*1300	of molecular concepts.
CHEM*1050 General Chemistry II F,W (3-3) [0.50]	<i>Prerequisite(s):</i> CHEM*1050, (1 of MATH*1000, MATH*1080, MATH*1200)
An introductory study of the fundamental principles governing chemical transformations:	Restriction(s): CHEM*2820
thermodynamics (energy, enthalpy, and entropy); kinetics (the study of rates of reactions); and redox/electrochemistry. <i>Prerequisite(s):</i> CHEM*1040	CHEM*3360 Environmental Chemistry and Toxicology S,W (3-0) [0.50] The chemistry of the natural environment; the influence of pollutants upon the environment, including methods of introduction of pollutants to, and removal of pollutants
Restriction(s): CHEM*1300, CHEM*1310	from the environment. (Also listed as TOX*3360.)
CHEM*1060 Introductory Chemistry F (3-0) [0.50]	Prerequisite(s): CHEM*1050
A course stressing fundamental principles of chemistry, designed for students without	<i>Equate(s):</i> TOX*3360 <i>Restriction(s):</i> CHEM*1310
4U or OAC Chemistry or equivalent. Topics include: atomic theory, the periodic table, stoichiometry, properties of gases and liquids, acid-base concepts and chemical equilibria.	CHEM*3430 Analytical Chemistry II: Instrumental Analysis S,W (3-3) [0.50]
This course is intended only for students who require the equivalent of 4U or OAC	Methods for the separation, identification and quantification of substances in the solid
Chemistry in order to proceed to CHEM*1040 or CHEM*1300.	liquid and vapour states. Emphasis will be placed on modern instrumental methods and trace analysis.
CHEM*1100 Chemistry Today F (3-0) [0.50] A chemistry course for non-scientists. This course will outline the involvement of	<i>Prerequisite(s):</i> (CHEM*2400 or CHEM*2480), CHEM*2070 (may be taken
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,	Restriction(s): TOX*3300
natural and synthetic polymers, household chemicals, foods, drugs and biochemicals.	CHEM*3440 Analytical Chemistry III: Analytical Instrumentation F (3-3) [0.50]
Restriction(s): CHEM*1040, CHEM*1300	Analytical Instrumentation, data acquisition, processing and applications in Chemistry
CHEM*2060 Structure and Bonding F (3-2) [0.50] Applications of symmetry, simple crystal structures and principles of bonding. Molecular	and Biological Chemistry. <i>Prerequisite(s):</i> CHEM*3430
orbital theory is used to explain the fundamental relationship between electronic and	CHEM*3640 Chemistry of the Elements I F (3-3) [0.50]
molecular structure. This course provides the elementary quantum background for an	A comprehensive introduction to concepts used by inorganic chemists to describe the
understanding of the electronic structures of atoms and molecules.	structure, properties, and reactivity of compounds of the main group elements. The mos
Prerequisite(s):         CHEM*1050, MATH*1210, PHYS*1010           CHEM*2070, Starstone and Scientific Starstone	important concepts covered are: Electronic Structure of Atoms, Symmetry, MO theory Acids and Basis, Structure of Solids, Trends in the Periodic System.
CHEM*2070 Structure and Spectroscopy S,W (3-2) [0.50] An introduction to spectroscopy and its relationship to molecular structure and dynamics.	<i>Prerequisite(s):</i> CHEM*2070
Rotational, vibrational, electronic and magnetic resonance spectroscopies will be studied.	CHEM*3650 Chemistry of the Elements II W (3-3) [0.50]
Concepts introduced in CHEM*2060 will be applied to chemical and biochemical problems through spectroscopic techniques. Central to this course is the use of	The chemistry and structure of transition metal compounds; electronic spectral and
spectroscopy for the determination of molecular structures and the investigation of molecular motions.	structural properties of transition metal complexes; mechanisms of their substitution and redox reactions. Introduction to organometallic chemistry.
Prerequisite(s): CHEM*2060	Prerequisite(s): CHEM*3640
CHEM*2300 Chemical Reactivity F (3-3) [0.50]	CHEM*3750 Organic Chemistry II S,F (3-3) [0.50]
A general coverage of the reactivity of the elements and some of their compounds, with an emphasis on the compounds of carbon.	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
Prerequisite(s):CHEM*1050 or CHEM*1310Restriction(s):CHEM*2700	introduction to spectroscopic methods for the identification of organic compounds.
CHEM*2400 Analytical Chemistry I S,F,W (2-6) [0.75]	Prerequisite(s): CHEM*2700
Quantitative analysis of important inorganic species in solution by volumetric, gravimetric	CHEM*3760 Organic Chemistry III W (3-3) [0.50] An in-depth treatment of various aspects of organic chemistry. This will include such
and spectrophotometric techniques. Spreadsheet applications to solution equilibria and data analysis. This course is intended to build the foundations of good analytical laboratory practice.	topics as the chemistry of heterocycles, bio-organic chemistry, polar rearrangements organic photochemistry and a detailed discussion of organic spectroscopy.
Prerequisite(s): CHEM*1050	Prerequisite(s): CHEM*2070, CHEM*3750
Restriction(s): CHEM*2480	CHEM*3860 Quantum Chemistry F (3-1) [0.50]
CHEM*2480 Analytical Chemistry I S,F,W (2-3) [0.50]	Elementary quantum mechanics for the understanding of the electronic structure of atoms
Same as CHEM*2400 with a 3 hour laboratory component.	and molecules.
Prerequisite(s): CHEM*1050 or CHEM*1310	<i>Prerequisite(s):</i> CHEM*2070, MATH*2170

# CHEM\*3870 Symmetry and Spectroscopy W (3-3) [0.50] Elementary group theory with applications to molecular spectroscopy. (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\*2700), (CHEM\*3430 or TOX\*3300), (MATH\*1210 or MATH\*2080) CHEM\*4400 Advanced Topics in Analytical Chemistry W (3-0) [0.50] Recent developments in instrumental methods of chemical analysis. A typical selection will include topics from the areas of surface analysis and the applications of lasers in chemical analysis. Prerequisite(s): CHEM\*3430 or CHEM\*3450 CHEM\*4620 Advanced Topics in Inorganic Chemistry F (3-0) [0.50] A contemporary treatment of subjects of current interest in modern inorganic chemistry. Possible topics include solid state chemistry and organometallic chemistry. Prerequisite(s): CHEM\*3650 CHEM\*4630 Bioinorganic Chemistry W (3-0) [0.50] The role and importance of transition metal systems in biological processes. (Offered in odd-numbered years.) Prerequisite(s): BIOC\*2580, CHEM\*3650 (may be taken concurrently) Co-requisite(s): CHEM\*3650 CHEM\*4720 Organic Reactivity W (3-0) [0.50] Introduction to physical organic chemistry, including discussion of reactive intermediates, substituent effects, medium effects, the mechanisms of organic reactions and the theoretical description of the bonding in organic molecules. (Offered in even-numbered years.) Prerequisite(s): CHEM\*3760 (may be taken concurrently) CHEM\*4730 Synthetic Organic Chemistry F (3-0) [0.50] Introduction to synthetic organic chemistry, including discussion of retrosynthetic analysis, natural products and organic reactions. The integration of these topics for the rational design of synthetic schemes will also be discussed. Prerequisite(s): CHEM\*3760 or XSEN\*4020 CHEM\*4740 Topics in Bio-Organic Chemistry F (3-0) [0.50] This course covers the principles, methods and techniques of current bio-organic chemistry with emphasis on modern synthetic and analysis methods applied to biological molecules, a molecular based approach to structure recognition, and an introduction to molecular modeling and drug design. Prerequisite(s): BIOC\*2580, CHEM\*3750 CHEM\*4880 Topics in Advanced Physical Chemistry W (3-0) [0.50] Selected topics in advanced physical chemistry. (Offered in even-numbered years.) Prerequisite(s): (CHEM\*2820 or PHYS\*3240), (CHEM\*3860 or PHYS\*3230) CHEM\*4900 Chemistry Research Project I S,F,W (0-9) [0.75] Research project and seminar in chemistry. This course 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). Students should note that most projects are of two semesters' duration, and should plan their studies on the expectation that they will also register in CHEM\*4910 in a subsequent semester. Prerequisite(s): 5.00 credits in chemistry including 1.50 credits from (CHEM\*3430 or CHEM\*3450), CHEM\*3640, CHEM\*3650, CHEM\*3760, CHEM\*3870 Restriction(s): Instructor consent required. CHEM\*4910 Chemistry Research Project II S,F,W (0-9) [0.75] Research project and seminar in chemistry . Students must make arrangements with both a faculty supervisor and the course coordinator prior to registration. Prerequisite(s): CHEM\*4900 Restriction(s): Instructor consent required.

Classical Studies	CLAS*3070 History of the Hellenistic World (in Greek) F (6-0) [1.00]
School of Languages and Literatures Unless otherwise noted, these courses do not require a knowledge of the Greek or Latin	This course augments CLAS*3020 for Classical Languages students through the reading and study in Greek of selected Greek sources pertaining to the history of the Hellenistic World, primarily Polybius and Plutarch. (Offered in odd-numbered years.)
languages. CLAS*1000 Introduction to Classical Culture F,W (3-0) [0.50]	Prerequisite(s): GREK*2020
A wide-ranging look at essential features of Greek and of Roman culture and society.	Restriction(s):       Registration in Classical Languages.         CLAS*3080 Epic Heroes and Poems (in Greek) W (6-0) [1.00]
Considerable emphasis will be given to the classical views of the human condition.	This course augments CLAS*3030 for Classical Languages students through the reading
CLAS*2000 Classical Mythology W (3-0) [0.50] An examination of the nature and function of myth in Classical Antiquity. The course shows how the narrative and symbolic structure of myths orders individual and communal experience. The myths that have influenced Western civilization receive special emphasis.	in Greek of selected books from the Iliad and/or Odyssey. The course will include close study of the epic dialect and features of its formulaic language.(Offered in odd-numbered years.) <i>Prerequisite(s):</i> GREK*2020
CLAS*2150 Western Art: Greece F (3-0) [0.50]	Restriction(s): Registration in Classical Languages.
A survey of Ancient Greek Art and Archaeology, with stress on form and function plus stylistic trends and aesthetic values. The course will illuminate the cultural, social, and political life in Ancient Greece. (Also listed as ARTH*2150). <i>Equate(s):</i> ARTH*2150	CLAS*3090 Greek Tragedy and Comedy (in Greek) W (6-0) [1.00] This course augments CLAS*3040 for Classical Languages students through the reading and study in Greek of an extant play. Offered in even-numbered years.) <i>Prerequisite(s):</i> GREK*2020
CLAS*2350 The Classical Tradition W (3-0) [0.50]	Restriction(s): Registration in Classical Languages.
This course examines the transmission of Graeco-Roman culture in circumstances radically different from those in which it originated. It highlights the aspects of classical culture most influential in forming the Western tradition. (Offered in odd-numbered years.) <i>Prerequisite(s):</i> CLAS*1000 or CLAS*2000	CLAS*3100 Religion in Greece and Rome F (3-0) [0.50] An examination of the varieties of religious experience and of religious activity in Greece and Rome, before the establishment of Christianity. Particular attention is paid both to the relations of religion to state and to the relations of the individual to gods. (Offered in even-numbered years.)
CLAS*2360 The Classical Tradition (in Latin) W (6-0) [1.00]	Prerequisite(s): CLAS*1000 or CLAS*2000
This course augments CLAS*2350 for Classical Languages students through the reading and study in Latin of certain primary sources, in particular Cicero, Quintilian, Augustine. (Offered in odd-numbered years.) <i>Prerequisite(s):</i> LAT*2000	CLAS*3120 Religion in Greece and Rome (in Latin) F (6-0) [1.00] This course augments CLAS*3100 for Classical Languages students through the reading and study of Latin primary sources. (Offered in even-numbered years.)
Restriction(s): Registration in Classical Languages.	Prerequisite(s): LAT*2000
CLAS*3000 The Rise and Fall of Athens F (3-0) [0.50] Greek history in the 5th century; the development of Athenian democracy; the	Restriction(s):       Registration in Classical Languages.         CLAS*3150 Space: Roman Art and Urbanism W (3-0) [0.50]
Peloponnesian War and the decline of Athenian dominance. Special attention is paid to the literature and thought of the period. (Offered in even-numbered years.) <i>Prerequisite(s):</i> 1 of CLAS*1000, CLAS*2000, HIST*2850 <b>CLAS*3010 The Roman Revolution W (3-0) [0.50]</b>	Introduction to Roman art and urbanism from the Early Republic to the end of the imperial period. The course will survey the developments of Roman art with an emphasis on architecture, sculpture and painting. It will illuminate the development of the urban space in the context of cultural, social and political life. (Also listed as ARTH*3150). (Offered in even-numbered years.)
An examination of the collapse of the Roman Republic and the development of the	Equate(s): ARTH*3150
Imperial government under Augustus. The paradox of the external power and inner instability of Rome. (Offered in even-numbered years.)	CLAS*3200 Sport in Antiquity F (3-0) [0.50]
<i>Prerequisite(s):</i> 1 of CLAS*1000, CLAS*2000, HIST*2850	The history of sport in Greece and Rome from Homer to the Caesars, with emphasis on its relationship to religion, education, literature, and community life. (Offered in
CLAS*3020 History of the Hellenistic World F (3-0) [0.50] The rise and fall of the Hellenistic states from the death of Alexander the Great until the	odd-numbered years.)
Roman conquest, with political emphasis on the development of the monarchies and cultural emphasis on the Hellenization of the East. (Offered in odd-numbered years.)	Prerequisite(s):       CLAS*1000, CLAS*2000         CLAS*3750 Greek Myth in the Western Tradition F (3-0) [0.50]
Prerequisite(s): 1 of CLAS*1000, CLAS*2000, HIST*2850	This course will study the functions of Greek myths in the non-Greek cultures which
CLAS*3030 Epic Heroes and Poems W (3-0) [0.50] The nature and significance of the epic hero. Epic as code and as critique of tradition. Oral poetry, and critical problems raised by it. The central texts are The Iliad, The Odyssey, and Virgil's Aeneid; other poems are also studied. (Offered in odd-numbered	adopted them and so transmitted them to the later general culture of the West. The period to be explored extends from Augustan Rome through the European Middle Ages to the Early Renaissance in Italy. (Offered in even-numbered years.) <i>Prerequisite(s):</i> CLAS*2000
years.)	CLAS*4000 Novel and Romance in Antiquity F (3-0) [0.50]
Prerequisite(s): CLAS*1000 or CLAS*2000	The historical and formal roots of fiction in the classical prose romances. Special attention is paid to the influence of myth, religion, historiography and ethical biography. Among
CLAS*3040 Greek Tragedy and Comedy W (3-0) [0.50] The nature of tragedy, and the existential and moral questions raised by the plays of Aischylos, Sophokles, and Euripides. Comedy, fantasy, and society in Aristophanes.(Offered in even-numbered years.)	texts studied are Daphnis and Chloe, Satyricon, and Aithiopika. (Offered in odd-numbered years.) <i>Prerequisite(s):</i> CLAS*3030 or CLAS*3040
Prerequisite(s): CLAS*1000 or CLAS*2000	CLAS*4010 Novel and Romance in Antiquity (in Latin) F (6-0) [1.00] This course augments CLAS*4000 for Classical Languages students through the reading
CLAS*3050 The Rise and Fall of Athens (in Greek) F (6-0) [1.00]	and study in Latin of an extant novel. (Offered in odd-numbered years.)
This course augments CLAS*3000 for Classical Languages students through the reading and study in Greek of selected primary sources, such as Herodotus, Thucydides, and	Prerequisite(s): LAT*2000 Restriction(s): Registration in Classical Languages.
Plutarch. (Offered in even-numbered years.) <i>Prerequisite(s):</i> GREK*2020	CLAS*4150 Research Paper in Classics F,W (3-0) [0.50]
Restriction(s): Registration in Classical Languages.	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
CLAS*3060 The Roman Revolution (in Latin) W (6-0) [1.00]	a topic of importance to the discipline and of interest to the student.
This course augments CLAS*3010 for Classical Languages students through the reading and study in Latin of selected primary sources, notably Sallust, Cicero, Caesar, and Suetonius.(Offered in even-numbered years.) <i>Prerequisite(s):</i> LAT*2000	<i>Prerequisite(s):</i> 1.50 credits in Classical Studies courses at the 3000 level
Restriction(s): Registration in Classical Languages.	
Last Revision: January 28, 2008	2007-2008 University of Guelph Undergraduate Calendar

# 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

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Computing and I	Information	Science
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# Department of Computing and Information Science

Note: Credit may be obtained for 1 of CIS\*1000 or CIS\*1200. Students with credit for MCS\*2020 may not register in 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: MCS\*2020, MATH\*1050.

# CIS\*1000 Introduction to Computer Applications S,F,W (3-2) [0.50]

A survey of computer systems and software. An introduction to computer programming and data organization. An emphasis on using application packages for personal and business use. The social impact of computing. 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.

Restriction(s):	CIS*1200, MCS*2020, 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]

An introduction to computer hardware and software, data organization, problem-solving and programming. 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.

# Restriction(s): MCS\*2020, CIS\*1000

# 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\*1900 Discrete Structures in Computer Science W (3-2) [0.50]

Provides a foundation in finite mathematics which is required for further computer science courses. Abstract representation of structures and algorithms. Topics include graph theory, logic, and set theory. (Also offered in distance education format.)

Restriction(s): CIS\*1910, CIS\*2910

# 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 S,F (3-3) [0.50]

Components of a computer system, including memories, CPU, buses, and input/output subsystems and interface hardware. 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\*2100 Scientific Computing and Applications Development S,F (3-2) [0.50]

This course is intended to introduce the student to techniques in modern applications development using current technologies and practices. The emphasis of the first part of the course ranges from building and maintaining WEB sites to search engines and multimedia presentations. The second part of the course is concerned with building and maintaining simple databases as needed for the management of scientific data. This is done in conjunction with packages for mathematical and statistical analysis, and presentation techniques. Cannot be taken for credit by students taking a major or minor in Computing and Information Science.

Prerequisite(s): 1 of CIS\*1000, CIS\*1200, CIS\*1500

CIS\*2430 Object Oriented Programming S,F (3-2) [0.50]

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]

Discrete simulation based on event queues. Random number generation. How to generate input data, measure and evaluate results using standard statistical tests. Model calibration and validation. Algebraic, probabilistic and simple queuing models of software and hardware operation.

Prerequisite(s): CIS\*2500, CIS\*2910, (STAT\*2040 or STAT\*2100)

# 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\*1500Equate(s):CIS\*2650

# CIS\*2520 Data Structures S,F (3-2) [0.50]

Basic data structures: stacks, queues, lists, trees, hashing, search trees, and graphs. Their representation, uses, and algorithms for their traversal and manipulation. The emphasis is on using these structures in implementations and assessing the relative effectiveness of alternative implementations.

 Prerequisite(s):
 (CIS\*1910 or CIS\*1900), CIS\*2500

 Co-requisite(s):
 CIS\*2910

 Equate(s):
 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\*2450

CIS\*2910 Discrete Structures in Computing II S,F (3-2) [0.50]

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 *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

# 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 S,W (3-2) [0.50]

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\*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\*3460 System Simulation F (3-2) [0.50]

Simulation model classification. Continuous and discrete languages. Process and transaction oriented systems. GPSS: entities, processing logic, chains, queue disciplines. Random number generators. Design and optimization of simulation applications and validation techniques.

Prerequisite(s): (CIS\*2420 or CIS\*2520), CIS\*3110, STAT\*2040

# CIS\*3490 The Analysis and Design of Computer Algorithms S,W (3-2) [0.50]

The design and analysis of efficient computer algorithms: 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)

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CIS*3530 Data Base Systems and Concepts F (3-1) [0.50]	CIS*4300 Human Computer Interaction F (2-2) [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.	Methods for user interface software design, including interface representations and testing. Evaluation and design of sample application systems. Impacts of computer-based information systems on individuals and organizations. Implementation and testing tools. Planning of learning stages and design of assistance subsystems. (Offered in odd-numbered years and may be offered in even-numbered years.)
<i>Prerequisite(s):</i> (CIS*2420 or CIS*2520), (CIS*2450 or CIS*2750)	<i>Prerequisite(s):</i> CIS*3110, (CIS*3430 or CIS*3750)
CIS*3620 Programming Language Foundations F (3-1) [0.50]	CIS*4400 Distributed Information Systems F (3-2) [0.50]
This course explores finite automata, formal languages, parsing, sequential machines and models of computation, including an introduction to Turing machines and the hierarchy of machines/languages. <i>Prerequisite(s):</i> (CIS*2450 or CIS*2750), CIS*3490 <i>Restriction(s):</i> CIS*4600	This course addresses the basic concepts and methodologies used to build distributed systems applications. The course deals with building information infrastructures involving a base network layer, middleware and application layer. The emphasis is on the enabling methodologies for building complex distributed information systems. <i>Prerequisite(s):</i> (CIS*3210 or CIS*4200), (CIS*3430 or CIS*3750), CIS*3530
CIS*3700 Introduction to Intelligent Systems W (3-1) [0.50]	CIS*4410 Trends in Distributed 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 3 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.	A course that 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. <i>Prerequisite(s):</i> (CIS*3210 or CIS*4200), (CIS*3430 or CIS*3750), CIS*3530
<i>Prerequisite(s):</i> (CIS*3430 or CIS*3750), STAT*2040	CIS*4430 Information Organization and Retrieval W (3-1) [0.50]
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.	Advanced techniques for information management. 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.) <i>Prerequisite(s):</i> CIS*3110, CIS*3530, (CIS*3430 or CIS*3750) <b>CIS*4450 Special Topics in Information Science U (3-1) [0.50]</b>
Prerequisite(s): CIS*2750	A variety of advanced topics mainly from areas within general information processing.
Restriction(s): CIS*3430	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
CIS*3760 Software Engineering S,W (3-2) [0.75] Examination of the software engineering process and the production of reliable systems.	and Information Science to determine what topic will be offered during specific semesters and which prerequisites, if any, are appropriate.
Techniques for the design and development of complex software. Topics include object-oriented analysis, design and modeling, software architectures, software reviews,	Restriction(s): Instructors consent required.
software quality, software engineering, ethics, maintenance and formal specifications.	CIS*4500 Special Topics in Computing Science U (3-1) [0.50]
Prerequisite(s):       CIS*3530, CIS*3750 (CIS*3110 recommended )         Restriction(s):       CIS*3200	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
CIS*4000 Applications of Computing Seminar F,W (0-6) [0.50]	determine what topic will be offered during specific semesters and which prerequisites,
This capstone course of the B.Comp. program provides students an opportunity to combine their area of application with their studies in computing via a course project and seminar	if any, are appropriate.
series. Application areas discussed in any particular semester will depend on areas of	Restriction(s): Instructor consent required.
application selected by students. Students are required to present their work in a seminar	CIS*4620 Computability and Complexity W (3-1) [0.50]
and also to participate in the critical analysis and review of the work of other students taking this course.	This course explores the theory of computation: Turing machines and variants, computability, NP and NP-completeness, complexity classes, reductions, undecidability and intractability. (Offered in odd-numbered years.)
<i>Prerequisite(s):</i> Registration in semester 7 or higher of the B.Comp. Program and completion of a minimum of 2.50 credits in an Area of Application.	Prerequisite(s): CIS*3620
CIS*4050 Advanced Computer Architectures F (3-1) [0.50]	Restriction(s): CIS*4600
Central processor architectures, control and microprogramming, memory systems, special	CIS*4650 Compilers W (3-1) [0.50]
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.)	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*3120           CIS*4150 Software Reliability and Testing F (2-2) [0.50]	Prerequisite(s): (CIS*2030 or IPS*2010), CIS*3110, CIS*3620
This course serves as an introduction to systematic methods of testing and verification,	Restriction(s): CIS*3650
covering a range of static and dynamic techniques and their use within the software	CIS*4720 Image Processing and Vision W (3-1) [0.50]
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	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,
integration testing will be explained. (First offering Fall 2008.)	forensics, food and security are surveyed. (Offered in odd-numbered years.)
<i>Prerequisite(s):</i> CIS*3200 or CIS*3760	<i>Prerequisite(s):</i> (CIS*2450 or CIS*2750), CIS*3110, STAT*2040 (CIS*3700 recommended)
CIS*4210 Telecommunications W (3-1) [0.50] This course covers the low-level and the hardware-oriented aspects of computer	Restriction(s): CIS*4760
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*3210 Restriction(s): CIS*4200	

All. Course Desc	inpuolis, Computing and information Science
CIS*4730 Patter	rn Recognition W (3-1) [0.50]
This course intr recognition, whic recognition and supervised and us	oduces fundamental concepts, theories and algorithms for pattern thare used in areas including computer vision, signal processing, speech linguistics. Major themes include statistical pattern classification, nsupervised learning, feature selection and extraction, clustering, image d syntactical pattern recognition. (Offered in even-numbered years.)
Prerequisite(s): Restriction(s):	( CIS*2450 or CIS*2750), CIS*3110, STAT*2040 (CIS*3700 recommended) CIS*4760
CIS*4770 Topic	s in Artificial Intelligence F (3-1) [0.50]
Topics will be che having the greate	ores selected topics in Artificial Intelligence at an intermediate level. osen to acquaint students with important aspects of Artificial Intelligence est current interest. (Offered in even-numbered years.)
Prerequisite(s): Restriction(s):	CIS*3700 CIS*4750
CIS*4780 Comp	outational Intelligence F (3-1) [0.50]
computing, neuro computing for so Fall 2007.)	oduces concepts of soft computing: modelling uncertainty, granular ocomputing, evolutionary computing, probabilistic computing and soft oftware engineering. (Offered in odd-numbered years.) (First offering
Prerequisite(s): Restriction(s):	( CIS*3430 or CIS*3750), CIS*3490, STAT*2040 (CIS*3700 recommended) CIS*4750
CIS*4800 Comp	outer Graphics W (3-1) [0.50]
geometrical trans visible surface de	computer graphics. Topics include graphics programming concepts, formations, viewing 3-D projections, raster graphics, sculptured surfaces, etermination, image processing and other special topics. Practical issues by assignment using currently available graphics equipment. (Offered d years.)
Prerequisite(s):	CIS*3110, (CIS*3430 or CIS*3750)
CIS*4820 Game	e Programming W (3-1) [0.50]
emphasize the a graphics, sound a	focus on the components found in modern 3-D game engines. It will lgorithms and data structures required to create real-time computer and network communications. (Offered in odd-numbered years.)
	CIS*3110, (CIS*3430 or CIS*3750)
	outer Science Project S,F,W (0-6) [0.50]
The course, in control to pursue an ind	ping and writing a research proposal under individual faculty supervision. ntinuation with CIS*4910 provides senior undergraduates an opportunity lependent course of study. The topic selected will be determined by en the student and the faculty member with expertise in the area.
Prerequisite(s): Restriction(s):	2 CIS courses at the 4000 level Instructor consent required.
CIS*4910 Comp	outer Science Thesis S,F,W (0-6) [0.50]
undergraduate th the student is rec	a continuation of CIS*4900. The student will conduct and write an esis under the individual supervision of a faculty member. In addition puired to present his/her work in a seminar and also participate in the and review of the work of other students taking this course.
Prerequisite(s): Restriction(s):	CIS*4900 Instructor consent required.

Restriction(s): Instructor consent required.

# **Co-operative Education**

### Co-operative Education Services

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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

### CROP\*2050 Gateway to Organic Agriculture F (3-3) [0.50]

Students taking this course will be exposed to the full spectrum of opportunities in the field of organic agriculture, from social policy and marketing to crop rotation and rare breeds. In addition to lectures provided by faculty from several departments, guest speakers will offer practical insights into the field. Experiential learning will be encouraged, through data collection and analysis from organically managed land and from site interviews with practitioners in the field.

Prerequisite(s): 5.00 credits
Restriction(s): CROP\*3400

#### CROP\*2110 Crop Ecology W (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

#### CROP\*2280 Crops in Land Reclamation F (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\*3130 Tutorials in Organic Agriculture II W (3-2) [0.50]

Building on the introductory exposure offered in CROP\*2050, this course will rely on small group mentoring to stimulate independent, learner-centered analysis of selected topics in organic agriculture. Students will participate in an interdisciplinary analysis of case study topics offered in the form of two, 6-week modules in biophysical and social areas, including organic certification, non-chemical pest management, organics in an international context, and enhancing soil and crop health. The goal is to encourage holistic, systematic thinking in students learning to become self-directed analysts and decision-makers. Seminar periods will support both guest speakers and student presentations.

Prerequisite(s): CROP\*2050

### CROP\*3300 Grain Crops W (3-0) [0.50]

Management strategies and world production of the major temperate grain crops are studied relative to their botanical and physiological characteristics and to available environmental resources. The utilization of grain crops for human food, livestock feed, and various industrial products are examined. (Offered in odd-numbered years.)

Prerequisite(s): 1 of AGR\*2451/2, AGR\*2470, CROP\*2110

# CROP\*3310 Protein and Oilseed Crops F (3-0) [0.50]

Management strategies and world production of the major temperate protein and oilseed crops are studied relative to their botanical and physiological characteristics and to available environmental resources. The utilization of protein and oilseed crops for human food, livestock feed and various industrial products are examined. (Offered in odd-numbered years.)

Prerequisite(s): 1 of AGR\*2451/2, AGR\*2470, CROP\*2110

### CROP\*3340 Managed Grasslands W (3-2) [0.50]

Managed forage grasses and legumes provide grazing, conserved feed, and a wider range of services to the environment and society at large. 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 W (3-2) [0.50]

Design of cropping systems for specific livestock, poultry and cash crop enterprises; integration of all factors affecting crop yields, quality and economy of production such as choice and interchangeability of crops, crop sequence, tillage, pest control, seasonal work programming, harvesting, drying and storage.

*Prerequisite(s):* (2 of CROP\*3300, CROP\*3310, CROP\*3320, CROP\*3330), (SOIL\*3080 or SOIL\*4090)

#### CROP\*4240 Weed Science F (3-3) [0.50]

Weeds will be studied in relation to agricultural practices. Principles of chemical, mechanical and biological control will be outlined. Laboratories will include weed identification, weed control methods, and demonstrations of the effects of various herbicides.

### *Prerequisite(s):* AGR\*2451/2 or AGR\*2470

### CROP\*4260 Crop Science Field Trip F (0-4) [0.50]

A field study designed to increase the student's knowledge of agricultural production and agri-business. Students will tour a selected area of North America prior to the fall semester, visiting cash crop and livestock farms, supporting industries (e.g. processing, manufacturing) and markets (e.g. elevators, stockyards). A fee of approximately \$750.00 per student will be assessed.

*Prerequisite(s):* 12.50 credits including AGR\*2451/2 or AGR\*2470

Restriction(s): Instructor consent required.

CROP\*4340 Seminar: Selected Topics in Crop Science F (2-0) [0.50]

This course is designed to permit students to study topics of current interest in the production of crops for feed and food purposes. Students will present seminars and prepare video presentations on the selected topics.

Prerequisite(s): 0.50 credits at the 3000 level in Crop Science

Economics	ECON*2720 Business History F (3-0) [0.50]
Department of Economics	This course surveys the evolution of economic activity and organization from the industrial
For courses without semester designations, please check with the department. Advance	revolution to the present. Particular attention is given to the changing relationship between technology and business organization, the shift from proprietorship to corporation and
schedules are available in the department.	the rise of multinational enterprise. Other topics may include the relationship between
ECON*1050 Introductory Microeconomics S,F,W (3-0) [0.50]	business and government, the role of the entrepreneur in the process of technical change
An introduction to the Canadian economy: price determination, market structure and	and the evolution .of work patterns and standards of living.
resource allocation; the behaviour of consumers and firms; market intervention by government. Some of the economic issues addressed may include agricultural price	Prerequisite(s): ECON*1050, (ECON*1100 or any 1.50 credits in history)
supports, rent control, the NAFTA, environmental regulation, price discrimination, pay	ECON*2740 Economic Statistics F,W (3-1) [0.50]
equity, and taxation. (Also offered through distance education format.)	A course designed to prepare students conceptually and mathematically for ECON*3560, Theory of Finance and ECON*2740. Introduction to Econometrica. Topics include the
Equate(s): ECON*1200	Theory of Finance and ECON*3740, Introduction to Econometrics. Topics include the summation operator, descriptive statistics, frequency distributions, probability and
ECON*1100 Introductory Macroeconomics S,F,W (3-0) [0.50]	statistical independence, the binomial distribution, algebra of the expectation operator,
The Canadian economy: aggregate performance and policy; an analysis of the determinants	discrete bivariate distributions, covariance, variance of a linear function of random
of national income, employment and the price level, the role of government monetary	variables, the normal and t distributions, sampling distributions, point and interval estimation, hypothesis testing and an introduction to ordinary least squares. Additional
and fiscal policies in improving the rate of economic growth. (Also offered through distance education format.)	topics may be included at the instructor's discretion. Examples and assignment questions
Prerequisite(s): ECON*1050	are drawn from economics and finance.
ECON*2000 Economic Problems in Canada U (3-0) [0.50]	<i>Prerequisite(s):</i> ECON*1050, ECON*1100, (1 of MATH*1000, MATH*1050, MATH*1090, MATH*1200)
This course is a study of important socio-economic issues in Canada using the basic	MATH*1080, MATH*1200)
principles of macro and microeconomics. Topics may include population, poverty, foreign	ECON*2770 Introductory Mathematical Economics F,W (3-1) [0.50]
ownership, regional development, etc.	This course applies the elements of calculus and matrix algebra to simple microeconomic and macroeconomic problems.
Prerequisite(s): ECON*1050, ECON*1100	Prerequisite(s): ECON*1050, ECON*1100, (1 of MATH*1000, MATH*1080,
ECON*2100 Economic Growth and Environmental Quality F (3-0) [0.50]	MATH*1200)
An examination of the implications of economic growth on the quality of the environment,	ECON*3100 Game Theory W (3-1) [0.50]
employing the basic principles of economic analysis. (Also offered through distance education format.)	The course introduces students to non-cooperative game theory, which is an important
Prerequisite(s): ECON*1050	method of analysis for economics situations involving small numbers of interacting
ECON*2200 Industrial Relations F (3-0) [0.50]	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
This is a survey course of the Canadian industrial relations system. Among the topics	information. The purpose of the course is to enable students to take any economic situation,
covered are: the growth and objectives of unions, the legal framework of collective	find an economic model (game) that depicts the incentives facing the participants, and
bargaining, the effects of unions on industry and the economy, industrial conflict and	analyze the game to predict the behaviour of the economic agents.
public policies.	<i>Prerequisite(s):</i> ECON*2310, ECON*2410, (ECON*2770 or MATH*1210) <i>Restriction(s):</i> ECON*3770
Prerequisite(s): ECON*1050	Restriction(s). ECON-5770
	ECON*3200 Economics of Industrial Palations II (3-0) [0.50]
ECON*2310 Intermediate Microeconomics S,F,W (3-1) [0.50]	ECON*3200 Economics of Industrial Relations U (3-0) [0.50]
The analysis of the behaviour of households and firms under alternative assumptions and	An economic analysis of the Canadian industrial relations system. Emphasis is placed
The analysis of the behaviour of households and firms under alternative assumptions and market conditions. (Also offered through distance education format.)	An economic analysis of the Canadian industrial relations system. Emphasis is placed on understanding the theoretical implications of unions and collective bargaining practices for wage and employment outcomes. Empirical analysis of the nature and growth of
The analysis of the behaviour of households and firms under alternative assumptions and market conditions. (Also offered through distance education format.) <i>Prerequisite(s):</i> ECON*1050, (AGR*1101/2 or ECON*1100)	An economic analysis of the Canadian industrial relations system. Emphasis is placed on understanding the theoretical implications of unions and collective bargaining practices for wage and employment outcomes. Empirical analysis of the nature and growth of unions and of their effect on industrial conflicts, public policy and the performance of
The analysis of the behaviour of households and firms under alternative assumptions and market conditions. (Also offered through distance education format.) <i>Prerequisite(s):</i> ECON*1050, (AGR*1101/2 or ECON*1100) ECON*2410 Intermediate Macroeconomics S,F,W (3-1) [0.50]	An economic analysis of the Canadian industrial relations system. Emphasis is placed on understanding the theoretical implications of unions and collective bargaining practices for wage and employment outcomes. Empirical analysis of the nature and growth of unions and of their effect on industrial conflicts, public policy and the performance of the economy.
The analysis of the behaviour of households and firms under alternative assumptions and market conditions. (Also offered through distance education format.) <i>Prerequisite(s):</i> ECON*1050, (AGR*1101/2 or ECON*1100) ECON*2410 Intermediate Macroeconomics S,F,W (3-1) [0.50] The analysis of closed economy models of aggregate spending, output, employment,	An economic analysis of the Canadian industrial relations system. Emphasis is placed on understanding the theoretical implications of unions and collective bargaining practices for wage and employment outcomes. Empirical analysis of the nature and growth of unions and of their effect on industrial conflicts, public policy and the performance of the economy. <i>Prerequisite(s):</i> ECON*2310
The analysis of the behaviour of households and firms under alternative assumptions and market conditions. (Also offered through distance education format.) <i>Prerequisite(s):</i> ECON*1050, (AGR*1101/2 or ECON*1100) <b>ECON*2410 Intermediate Macroeconomics S,F,W (3-1) [0.50]</b> The 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	An economic analysis of the Canadian industrial relations system. Emphasis is placed on understanding the theoretical implications of unions and collective bargaining practices for wage and employment outcomes. Empirical analysis of the nature and growth of unions and of their effect on industrial conflicts, public policy and the performance of the economy. <i>Prerequisite(s):</i> ECON*2310 ECON*3300 Economics of Health and the Workplace U (3-0) [0.50]
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ECON*3510 Money, Credit and the Financial System U (3-0) [0.50]	ECON*3730 Europe and the World Economy to 1914 U (3-0) [0.50]
Economics of the payments system, banking and other financial institutions and of credit	This course surveys the world economy with a particular focus on the industrial revolution
markets. Bank of Canada operations and policy instruments. Monetary theory and policy. <i>Prerequisite(s):</i> ECON*2310, ECON*2410	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
ECON*3520 Labour Economics U (3-0) [0.50]	century. Particular attention is given to international trade, capital flows and migration.
A study of the labour market, wage determination and the relationship between wages,	<i>Prerequisite(s):</i> ECON*1050, ECON*1100, (1 of ECON*2310, EURO*2070, HIST*2450, HUMN*2070, IDEV*2010)
employment, and prices.	ECON*3740 Introduction to Econometrics F,W (3-1) [0.50]
Prerequisite(s): ECON*2310	This computer-based course involves the specification and estimation of economic models
ECON*3530 Industrial Organization U (3-0) [0.50]	and the testing of economic hypotheses using appropriate test statistics. Topics include
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,	the summation operator, expectation operator, ordinary least squares estimation, dummy variables, seasonality, multicollinearity, heteroskedasticity, autocorrelation, data sources
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	(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
Canadian competition policy and regulations are discussed.	results. Some use of spreadsheet software (e.g. QuattroPro, Excel) and statistical software
Prerequisite(s): ECON*2310, (ECON*2770 or MATH*1210)	(e.g. TSP, SHAZAM) will be required.
ECON*3560 Theory of Finance F,W (3-0) [0.50]	<i>Prerequisite(s):</i> ECON*2310, ECON*2410, (ECON*2740 or STAT*2040),, (ECON*2770 or MATH*1210)
Capital budgeting and long-term finance and investment decisions by firms and individuals. Introduction to capital asset pricing under uncertainty and to concept of	ECON*4400 Economics of Organizations and Corporate Governance U (3-0) [0.50]
efficient markets. Major emphasis is on corporate finance. (Also offered through distance	This course introduces students to the latest developments in the economic analysis of
education format.)	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
<i>Prerequisite(s):</i> ECON*2310, (1 of ECON*2740, PSYC*2010, STAT*2040, STAT*2050, STAT*2060, STAT*2080, STAT*2090, STAT*2100,	evaluation and performance incentives. The course tries to explain the diversity of
STAT 2000, 5111 2000, 5110 5110, 5111 2000, 510000, 51000, 510000, 510000, 5100000, 510000, 5100000, 510000000, 5100000000, 51000000	economic organizations, and more generally, why economic activity is sometimes carried out through firms and sometimes through markets. (Offered through Distance Education
ECON*3580 Economics of Regulation U (3-0) [0.50]	only.)
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	<i>Prerequisite(s):</i> ECON*2310 Students must have completed a minimum of 12 credits.
and public sector price-setting in the Canadian economy.	ECON*4500 Topics in Urban Economics U (3-0) [0.50]
Prerequisite(s): ECON*2310	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
ECON*3600 Macroeconomics in an Open Economy W (3-0) [0.50]	structure, transportation economics, the economics of housing, the economics of land
This course focuses on international macroeconomic issues; the balance of payments; models of exchange rate determination; foreign exchange risk and covered interest	use regulation, urban public finance.
arbitrage; alternative exchange rate regimes; small versus large economies; monetary	Prerequisite(s): ECON*3710, ECON*3740
and fiscal policy in an open economy.	ECON*4560 Advanced Topics in Finance U (3-0) [0.50] This course will examine selected advanced topics in finance, such as optimal capital
<i>Prerequisite(s):</i> ECON*2410, (ECON*2740 or STAT*2040), (ECON*2770 or MATH*1210)	structure under asymmetric information; theoretical and empirical analysis of mergers
ECON*3610 Public Economics U (3-0) [0.50]	and acquisitions; asset pricing theory; pricing derivative securities; and financial econometrics.
This course examines the interventionist role of government in the economy. It examines	Prerequisite(s): ECON*3560, ECON*3710, (ECON*3100 or ECON*3770)
several sources of market failure which are used to justify government intervention. These include public goods, externalities and redistribution. The course also evaluates alternative	ECON*4640 Applied Econometrics I F (3-0) [0.50]
sources of government revenue from the perspectives of both equity and efficiency. These	This course discusses the classical linear regression model and its extensions including
include the personal and corporate income taxes, sales taxes and wealth taxes. <i>Prerequisite(s):</i> ECON*2310	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
ECON*3620 International Trade U (3-0) [0.50]	and Wald tests. Additional topics may be included at the instructor's discretion. Matrix
An introduction to the general equilibrium analysis of international trade, international	algebra is used and proof of the Gauss-Markov theorem is included, but discussion of proofs is in general limited in order to allow substantial applications to data using statistical
factor movements and commercial policy. Special emphasis is given to Canada's	software such as TSP, SHAZAM, SAS, STATA.
international trade relationships. <i>Prerequisite(s):</i> ECON*2310	Prerequisite(s): ECON*3740 Equate(s): ECON*4740
ECON*3660 Economics of Equity Markets U (3-0) [0.50]	Equate(s): ECON*4740 ECON*4710 Advanced Topics in Microeconomics F (3-0) [0.50]
This course studies the economic literature regarding the determination of security prices	An intensive study of the scope, methodology, and content of contemporary
and the operation of the stock market. (Also offered through distance education format.)	microeconomics; selected topics in partial and general equilibrium analysis.
Prerequisite(s): ECON*3560	Prerequisite(s): ECON*3710
ECON*3710 Advanced Microeconomics F,W (3-1) [0.50]	ECON*4720 Topics in Economic History U (3-0) [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.	The use of economic theory to analyse the process of historical economic change.
<i>Prerequisite(s):</i> ECON*2310, (ECON*2770 or MATH*1210). A grade average of 70%	Prerequisite(s): 12.50 credits including ECON*2310 ECON*4750 Topics in Public Economics U (3-0) [0.50]
or more in these courses is recommended.	This course examines selected topics related to the expenditure and taxation functions
ECON*3720 History of the World Economy Since 1850 U (3-0) [0.50]	of government. Topics may include issues in public good theory such as the free rider
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	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
"settler colonies", economic growth in the Third World, reparations and war debt,	well as tax evasion. Throughout this course the trade-off between efficiency and equity
agricultural overproduction, origins of the Great Depression, the 1945-1973 boom in world production and trade.	is emphasized.
<i>Prerequisite(s):</i> ECON*1050, ECON*1100, (1 of ECON*2310, EURO*2070,	Prerequisite(s): ECON*3710
HIST*2450, HUMN*2070, IDEV*2010)	

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.	

*Prerequisite(s):* ECON\*3600, ECON\*3710, ECON\*3740

# 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. 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\*3710, ECON\*3740, (ECON\*3100 or ECON\*3770)

### 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.

Prerequisite(s): ECON\*3710, ECON\*3740

#### ECON\*4800 Theory of Strategic Management 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. ECON\*4800 may not be counted as a 4000 level economics course for purposes of satisfying the minimum 4000 level economics course requirements in the B.A. Honours Economics or B.A. Management Economics programs.

*Prerequisite(s):* (AGEC\*3320 or BUS\*3320), ECON\*2740. Completion of semester 5.

# ECON\*4810 Advanced Macroeconomic Theory W (3-0) [0.50]

The theory of complex aggregate economic models; their assumptions, construction, and use in the analysis of macroeconomic activity.

Prerequisite(s): ECON\*3600, 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]

Examination in a seminar setting of selected contemporary economic problems.

*Prerequisite(s):* ECON\*3600, ECON\*3710, ECON\*3740, or instructor consent

ECON\*4870 Mathematical Economics: Dynamics F (3-0) [0.50]

The purpose of this course is to introduce the student to the techniques and application of dynamic analysis. The discussion concentrates on systems of differential equations, optimal control theory, etc.

*Prerequisite(s):* ECON\*3600, ECON\*3710

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.

Prerequisite(s): ECON\*3600, ECON\*3710, or instructor consent

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

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. One only of ECON\*4900/ECON\*4910 may count as one of the required minimum number of 4000 level economics courses in the B.A. programs.

*Prerequisite(s):* ECON\*3600, ECON\*3710, ECON\*3740

ECON\*4900 Special Study in Economics S,F,W (3-0) [0.50]

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]

An advanced treatment of the interrelationship between economic activities and the state of the natural environment from the economists' point of view.

*Prerequisite(s):* ECON\*2410, ECON\*3710

# ECON\*4940 Model Building and Economic Analysis U (3-0) [0.50]

Progress in economic theory is increasingly made by studying the properties of small artificial economies or competitive general equilibrium models. This course examines the construction of competitive general equilibrium models and outlines the computational techniques required to solve them. These models may be used to study a range of subject areas, including topics in macroeconomics with a particular emphasis on business cycle analysis or the economics of the environment. The subject areas will vary from year to year and are chosen at the instructor's discretion.

# Prerequisite(s): ECON\*3740

ECON\*4950 Applied Economics Research Project W (3-0) [0.50]

Students plan, develop and conduct a research project under individual faculty supervision and structured co-ordination. The supervisor is a faculty member with expertise in the area being investigated. The co-ordinator is a faculty member who leads group sessions on research project objectives, expectations, potential topics, data sources, available software and other relevant issues. Students will also present proposals, progress reports and final products in this group setting.

*Restriction(s):* Students registered in the B.A. Applied Economics program. Students must have completed 17.0 credits.

# **Environmental Design and Rural Development**

# School of Environmental Design and Rural Development

# EDRD\*1150 Landscape Design W (2-3) [0.50]

This course is an introduction to the design of the built landscape environment, with an emphasis on graphic communication skills, creativity, and the design process. Basic drawing and drafting techniques along with the principles and styles of design, landscape materials and structures, and the incorporation of plant materials will be covered.

Registered in B.B.R.M. Restriction(s): Location(s): Ridgetown

# EDRD\*2000 Introduction to Rural Extension F (3-0) [0.50]

Introduction to Rural Extension including history and philosophy; learning and motivation; the rural setting; adoption/ technology transfer processes; marketing; planning; extension teaching/communication methods and technology; evaluation; extension agencies and programs.

Equate(s): REXT\*2000

### EDRD\*2010 Introduction to Landscape Management F (2-3) [0.50]

Students taking this course will be exposed to the range of issues and opportunities in the field of Landscape Management. Reviewing historic and contemporary practices they will explore the benefits of a scientific and multidisciplinary approach to addressing the environmental, political, social and cultural imperatives of open space and natural resources in urban and rural areas.

Restriction(s): Registered in B.Sc. (Agr.).

### EDRD\*2020 Interpersonal Communication F,W,S (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\*2050 Landscape Construction and Planning F (1-4) [0.50]

Students will be engaged in the creation of landscape structures, including plan reading and estimating. Practical skills and experience will be obtained through real-life and simulated projects, using actual materials and design scenarios taken from industry examples. Technical and professional guidance will enable students to undertake typical landscape structure layout, estimates, and installation, based on design plans and specifications.

Prerequisite(s): EDRD\*1150 Restriction(s): Registered in B.B.R.M. Ridgetown Location(s):

# 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. (Offered in odd-numbered years.)

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*40

#### EDRD\*3120 Educational Communication W (3-0) [0.50]

This course addresses the communication concepts and practices within the formal and non-formal educational contexts. Communication is central to teaching and learning because communication mediates a conscious effort either on the part of the learners to learn, or on the part of the teachers to provide and transfer knowledge, attitudes and skills. (Offered through Distance Education only.)

*Prerequisite(s):* 5.00 credits Restriction(s): REXT\*3100

#### EDRD\*3140 Organizational Communication W (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
Last Revision: Ja	nuary 28, 2008

#### 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\*3180 Social Processes in Mediated Communication W (3-0) [0.50]

This course is an introduction to dyadic communication, small-group communication. mediated work groups and online learning in mediated environments. The focus of this course will be on communication style, effectiveness, and online dynamics and processes in asynchronous environments. (Offered through Distance Education only.)

Prerequisite(s): 10.00 credits

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 agro-industrial complex on Ontario communities will be considered mainly from a comparative perspective. Related topics will include physical infrastructure, political conflicts, labour markets, settlement patterns, housing, gender relations, landscape management, quality of life, sustainability and the promotion of community leadership.

Prerequisite(s): AGR\*1250 or 10.00 credits Restriction(s): AGR\*3400

### EDRD\*3450 Watershed Planning Practice S,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 UNIV\*3400

Equate(s):

# EDRD\*3500 Recreation and Tourism Planning F,W (0-0) [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 UNIV\*3500 Equate(s):

#### EDRD\*3550 Economic Development for Rural and Smaller Communities S (0-0) [0.50]

This course addresses the variety of challenges facing rural and smaller communities in Canada relating to livelihood creation and maintenance, employment, investment, business development, tax base maintenance and enhancement and the associated strategies for development planning and management. The roles of various agents (public, private, community, Third Sector) are addressed through the literature and case studies. The course critically examines "local" and "community" economic development, and reviews the rich Canadian experience here. The structure and dynamics of rural economies are examined. The course addresses selected methods of analysis and outlines the process of planning for, and managing, economic development at the local level. Various development organizations (e.g. cooperatives, Community Development Corporations) are examined. (Offered through Distance Education only.)

UNIV\*3550 Equate(s):

# EDRD\*4010 Tourism Planning in the Less Developed World F,W (0-0) [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

	ricultural Communication II W (3-0) [0.50]	
through the prod	ractical and effective writing and communication techniques, mainly uction of print publications and the further development and application riting and editing skills. Special emphasis on issues important to the y.	
Prerequisite(s): Equate(s): Restriction(s):	1 of EDRD*3050, REXT*3050, equivalent REXT*4060 Instructor consent required.	
. ,	adership Development in Small Organizations F (3-0) [0.50]	
The main theories of leadership bet applied in bilant organizations if (e 6) for of 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): Restriction(s):	10.00 credits REXT*4100	
EDRD*4180 So	cial Issues in Organic Agriculture W (2-2) [0.50]	
Organic Agriculture I and II, to 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, the commons, the debate between economics and the environment, the organic agri-food system, rural communities, the role of the family farm, land use and certification/regulation. <i>Prerequisite(s):</i> 1 of AGR*3400, (CROP*3130, SOIL*3030), SOC*2080 <i>Equate(s):</i> REXT*4180		
1 ()		
used in the planr a broad range of experience will of	<b>ues in Landscape Management F (2-3) [0.50]</b> a students will be exposed to the historic and contemporary approached ing design of urban open space. Lectures and case studies will presen solutions which will be evaluated against appropriate criteria. Studio expose the student to the process of planning and design. Projects will apply their theoretical and technical knowledge to contemporary issues	
used in the planr a broad range of experience will e allow students to	<b>ues in Landscape Management F (2-3) [0.50]</b> a students will be exposed to the historic and contemporary approached ing design of urban open space. Lectures and case studies will presen solutions which will be evaluated against appropriate criteria. Studio expose the student to the process of planning and design. Projects will apply their theoretical and technical knowledge to contemporary issues	
used in the planr a broad range of experience will a allow students to (First offering - 1 <i>Prerequisite(s):</i> <i>Restriction(s):</i>	ues in Landscape Management F (2-3) [0.50] a students will be exposed to the historic and contemporary approached ing design of urban open space. Lectures and case studies will presen solutions which will be evaluated against appropriate criteria. Studie expose the student to the process of planning and design. Projects will apply their theoretical and technical knowledge to contemporary issues Fall 2009.) 14.00 credits	

# Engineering

#### School of Engineering

Students who are not registered in the B.Eng. degree program may take no more than 3.00 Engineering (ENGG\*XXXX) credits.

Some ENGG\* courses have priority access restrictions. Enrolment in these courses is restricted to students registered in B.Eng. Degree program. All other students will require a waiver form to be signed by the B.Eng. Program Counsellor.

#### ENGG\*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 Engineering Program

#### ENGG\*1210 Engineering Mechanics I W (3-1) [0.50]

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]

Engineering applications of Matrix algebra, vector spaces and computer techniques to solve linear systems. Linear transformations, eigenvalues and eigenvectors, diagonalization and their applications in engineering problems. Complex variable algebra, multi-variables functions, partial derivatives, and maxima and minima.

*Co-requisite(s):* ENGG\*1210, MATH\*1210 *Restriction(s):* MATH\*2150

#### ENGG\*2100 Engineering and Design II F (2-4) [0.75]

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, structured programming and database management software. An introduction to safety in engineering practice and design. An introduction to the concept of sustainable development.

Prerequisite(s): ENGG\*1100, ENGG\*1210, ENGG\*1500, MATH\*1200, PHYS\*1130

### 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 fluid flow systems using the Continuity, Bernoulli and Momentum equations. Boundary layer theory is treated in terms of viscous and pressure drag, lift and its importance in heat and mass transfer. Dimensional analysis and dynamic similitude 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\*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 stimulate 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, 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 (3-1) [0.50]

Electrical quantities; electrical circuit elements and their characteristics; exponentials, sinusoids and phasors applied to electrical circuits; s-plane representation and pole-zero concepts; steady-state a.c. circuits; general network analysis; magnetic quantities and circuits; demonstration of principles as applied in several engineering fields.

# *Prerequisite(s):* ENGG\*2400, 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

#### ENGG\*2660 Biological Engineering Systems I W (3-1) [0.50]

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, MICR\*1020 *Co-requisite(s):* BIOC\*2580

ENGG\*3050 Embedded Reconfigurable Computing Systems W (3-2) [0.50]

This course introduces the students to the analysis, synthesis and design of embedded systems and implementing them using Field Programmable Gate Arrays. Topics include: review of digital design concepts; Programmable Logic Devices; Field Programmable Logic Devices; physical design automation (partitioning, placement and routing); Hardware Descriptive Languages; VHDL; Verilog; High Level Languages; System-C; Handle-C; Fixed Point and Floating Point Arithmetic; Hardware Accelerators; Reconfigurable Instruction Set Computers; Hardware Software Co-design techniques; Application of Field Programmable Logic in Embedded Systems. (First offering - Winter 2010)

#### Prerequisite(s): ENGG\*3380, ENGG\*3450

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.Sc.(Eng.) program, ENGG*2100, ENGG*2230,
	ENGG*2400, ENGG*3260 and, for the specific majors: BIOE, (
	ENGG*2150 or ENGG*2160), ENGG*2660; ESC, ENGG*3390;
	ENVE, (ENGG*3180 or ENGG*3360), ENGG*3590, ENGG*3650;
	WRE, ENGG*3590, ENGG*3650
Restriction(s):	Students must have a minimum cumulative average of 60% or higher
	in ALL ENGG courses.

ENGG*3150 Engineering Biomechanics W (3-2) [0.50]	ENGG*3390 Signal Processing F (3-2) [0.50]
Basic concepts of biological material structure, properties, adaptation and remodeling;	This course will establish the fundamental analysis and design techniques for signal
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. <i>Prerequisite(s):</i> ENGG*2160	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
Restriction(s): ENGG*2150	to design continuous-time filters and both design and implement discrete-time digital filters using computer-based tools.
ENGG*3160 Biological Engineering Systems II F (3-2) [0.50]	Prerequisite(s): ENGG*2400
Mass transfer in biological systems: concepts; gas-liquid mass transfer; membrane transport processes; and heterogeneous reactions. Applications may include fermenter	ENGG*3410 Systems and Control Theory W (3-2) [0.50]
aeration, tissue perfusion, mass transfer limitations in biofilms, microbial flocs and solid tumours, protein recovery and drug delivery.	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.
Prerequisite(s): ENGG*2230, ENGG*2660	Control by ON/OFF and PID Controllers.
ENGG*3170 Biomaterials F (3-2) [0.50] Physical properties of natural and synthetic (e.g. stainless steel, polymers) materials used	Prerequisite(s): ENGG*2400, MATH*2270 Co-requisite(s): ENGG*2450
in biological engineering applications. Topics will include microstructure and mechanical properties of typical biomaterials, quantification of advanced material properties and	ENGG*3430 Heat and Mass Transfer W (3-1) [0.50]
behaviours, fabrication, compatibility, biodegradation and mechanical failure. Typical applications will include processing of biomaterials as well as equipment and implant design.	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
Prerequisite(s): ENGG*2120	involving a change of state.
ENGG*3180 Air Quality F (3-2) [0.50]	Prerequisite(s): ENGG*2230, ENGG*3260, MATH*2270
The study of the transport, transformation and deposition processes associated with air	ENGG*3450 Electrical Devices F (3-2) [0.50]
pollutants. The chemical and biological nature, impacts, and sources of air pollutants. The physical aspects of the atmospheric boundary layer. The mathematical treatment of diffusion in a homogeneous field in a boundary layer. Regulatory approaches worldwide and their use of air quality modeling. The use of models for the design of stacks and monitoring networks.	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.
<i>Prerequisite(s):</i> ENGG*2230, (ENGG*2560 or ENGG*2660) <i>Co-requisite(s):</i> ENGG*3260	Prerequisite(s): ENGG*2450
Restriction(s): ENGG*3360	ENGG*3470 Mass Transfer Operations W (3-2) [0.50]
<b>ENGG*3240 Engineering Economics F (3-0) [0.50]</b> 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.	Application of mass transfer principles in the natural and engineered systems. Mass transport in the multi-media fate of contaminants in and between air, water and land. Design and analysis of separation processes for emission and pollutant prevention. <i>Prerequisite(s):</i> ENGG*2230, ENGG*3260, MATH*2270
Prerequisite(s): ENGG*2400, ENGG*2450, MATH*1210, MATH*2270	Co-requisite(s): ENGG*3430 ENGG*3490 Introduction to Mechatronic Systems Design W (3-2) [0.75]
<i>Restriction(s):</i> Registration in the Engineering program.	This course covers the design of mechatronic systems, which are synergistic, combinations
ENGG*3260 Thermodynamics F (3-1) [0.50] Macroscopic thermodynamics and its applications to engineering analysis and design. First and second laws and applications to closed and flow systems, both with and without reaction; properties of pure substances and solutions; introduction to phase and reaction equilibrium. Applications include gas-vapour systems (psychrometrics and beyond), power and refrigeration cycles, raoult and henry law solution behavious, flame temperature calculations, semiconductor device fabrication.	of components and controls drawn from mechanical engineering, electronics, control engineering, and computer science. The course emphasizes the integration of these area through the design process employing the two skills of (1) modeling, analysis, control design, and computer simulation of dynamic systems, and (2) experimental validation of models, analysis and the understanding of the key issues of hardware implementation. The two skills are developed though assignments emphasizing analytical analysis with complementary laboratory exercises. The material covered includes mechatronic system
<i>Prerequisite(s):</i> CHEM*1040, ENGG*2230, ENGG*2400, ENGG*2450, MATH*2270 ENGG*3340 Geographic Information Systems in Environmental Engineering F	design; a review of kinematics, electronics, modeling, simulation, signals and control; control architectures; sensors including vision; and actuators.
(3-0) [0.50]	Prerequisite(s): ENGG*3450 Co-requisite(s): ENGG*3410
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	Restriction(s):         ENGG*3400           ENGG*3590 Water Quality F (3-3) [0.50]
a GIS software package to build geographical information systems. Prerequisite(s): (CIS*1500 or CIS*1600), (1 of MATH*1000, MATH*1080, MATH*1200)	This course builds on the student's experience in chemistry, biology, physics and fluid mechanics, and provides an engineering perspective on: (i) standard methods of water quality analysis for physical, chemical and biological characteristics of water; (ii) significance and interpretation of analytical results, (iii) modeling of water quality in
ENGG*3380 Computerized Organization and Design F (3-2) [0.50]	natural systems and (iv) introduction to engineered water and wastewater treatment
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, registers; 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.	systems. <i>Prerequisite(s):</i> ENGG*2230, ENGG*2560, (BIOL*1040 or MICR*1020), STAT*2120
Prerequisite(s): ENGG*2410	

### ENGG\*3640 Microcomputer Interfacing F (3-3) [0.50]

Interfacing microcomputers to external equipment. Topics include peripheral devices, hardware interfaces, device driver software and real time programming. Advanced programming: debugging of embedded systems, data structures and subroutine calls, high-level system programming. Interrupts and resets, real time events, signal generation and timing measurements. Synchronous and asynchronous serial communication. Parallel I/O ports and synchronization techniques. I/O interfacing, microcomputer busses, memory interfacing and direct memory access (DMA). Data acquisition topics include signal conditioning analog to digital conversion and digital signal processing.

Prerequisite(s):ENGG\*2410Co-requisite(s):ENGG\*3390Restriction(s):ENGG\*4640

# ENGG\*3650 Hydrology F (3-1) [0.50]

Quantitative study of natural water circulation systems with emphasis on basic physical principles and interrelationships among major processes; characteristics of mass and energy; inputs to and output from watersheds; factors governing precipitation occurrence, evaporation rates, soil-water storage changes, groundwater recharge and discharge, run-off generation; methods of streamflow analysis; mathematical modeling.

Prerequisite(s): (ENGG\*2230 or MET\*2030), (MATH\*1210 or MATH\*2080), (STAT\*2120 or STAT\*2040), and competency in computing

#### ENGG\*3670 Soil Mechanics F (3-2) [0.50]

Relations of soil physical and chemical properties to strength; soil water systems and interactive forces. Visco-elastic property and pressure-volume relationships of soil systems. Stress-strain characteristics of soil under dynamic loads. Application of engineering problems. Laboratory and field investigation methods.

*Prerequisite(s):* ENGG\*2120, ENGG\*2230

### ENGG\*3830 Bio-Process Engineering F (3-1) [0.50]

Application of engineering principles to the processing of biological products in the biological and food industry. Analysis and design of unit processes such as sedimentation, centrifugation, filtration, milling and mixing involving rheology and non-Newtonian fluid dynamics of biological materials. Analysis of heat and mass balances for drying evaporation, distillation and extraction.

Prerequisite(s): ENGG\*2230, ENGG\*2660

Co-requisite(s): ENGG\*3260

## ENGG\*4080 Analog Integrated Circuits F (3-0.5) [0.50]

The purpose of this course is to describe the operating principles of analog integrated circuits and to teach how to design and use such circuits. These circuits include analog and switched-capacitor filters, analog-to-digital and digital-to-analog converters, amplifiers, oscillators, 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. (First offering - Fall 2010)

*Prerequisite(s):* ENGG\*3450

ENGG\*4110 Biological Engineering Design IV F,W (2-6) [1.00]

Capstone design project in the Biological Engineering program. Teams of 3-4 students apply engineering analysis and design principles to a problem in a biological system or process. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. Teams produce reports and a poster presentation to a professional standard. Ethics and law case studies relevant to professional engineering practice are discussed.

Prerequisite(s): All 1000 and 2000 level core credits, ENGG\*3100.
 Restriction(s): Registration in semester 8 (last semester) of the B.Sc.(Eng.) program and in a max. of 3.25 credits registration. Student must have a minimum cumulative average above 60% in ALL ENGG courses. Instructor consent required.

### ENGG\*4120 Engineering Systems and Computing Design IV F,W (2-6) [1.00]

Capstone design project in the Engineering Systems and Computing program. Teams 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. Teams produce reports and a poster presentation to professional standard. Ethics and law case studies relevant to professional engineering practice are discussed.

 Prerequisite(s):
 All 1000 and 2000 level core credits, ENGG\*3100.

 Restriction(s):
 Registration in semester 8 (last semester) of the B.Sc.(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.

#### ENGG\*4130 Environmental Engineering Design IV F,W (2-6) [1.00]

Capstone design project in the Environmental Engineering program. Teams 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. Teams produce reports and a poster presentation to professional standard. Ethics and law case studies relevant to professional engineering practice are discussed.

 Prerequisite(s):
 All 1000 and 2000 level core credits, ENGG\*3100.

 Restriction(s):
 Registration in semester 8 (last semester) of the B.Sc.(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.

### ENGG\*4150 Water Resources Engineering Design IV F,W (2-6) [1.00]

Capstone design project in the Water Resources Engineering program. Teams 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. Teams produce reports and a poster presentation to professional standard. Ethics and law case studies relevant to professional engineering practice are discussed.

Prerequisite(s): All 1000 and 2000 level core credits, ENGG\*3100.
 Restriction(s): Registration in semester 8 (last semester) of the B.Sc.(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.

#### ENGG\*4250 Watershed Systems Design F (3-2) [0.75]

Hydrological analysis of watershed systems including stream flow for design of structures and channels, flood warning, flood plain mapping, low-flow characteristics. Hydraulic analysis applied to design of dams, reservoirs, control structures, energy dissipation structures, bridges and culverts. Analysis of steady flow profiles, flood waves, and sediment transport, for 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\*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]

Solid waste generation rates and waste composition. Integrated waste management: collection, recovery, reuse, recycling, energy-from-waste, and landfilling. Biological treatment of the organic waste fraction - direct land application, composting, anaerobic digestion. Environmental impact of waste management and sustainable development. Cross media issues related to solid waste disposal. An introduction to hazardous waste management and treatment methods.

Prerequisite(s): ENGG\*2560 or ENGG\*2660

406	XII. Course Descriptions, Engineering
ENGG*4360 Soil-Water Conservation Systems Design F (3-2) [0.75]	ENGG*4460 Robotic Systems F (3-3) [0.50]
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 system for rural land. Design of sprinkler and trickle irrigation systems.	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.
<i>Prerequisite(s):</i> ENGG*2230, ENGG*3650, ENGG*3670	Prerequisite(s): ENGG*1500, ENGG*2400
ENGG*4370 Urban Water Systems Design F (3-2) [0.75]	ENGG*4510 Assessment & Management of Risk W (3-1) [0.50]
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.	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. <i>Prerequisite(s):</i> STAT*2040 or STAT*2120
Modeling of water systems for sustainable urban development.	ENGG*4550 VLSI Digital Design F (3-2) [0.50]
Prerequisite(s): ENGG*2230, ENGG*3650	This course introduces the students to the analysis, synthesis and design of Very Large
ENGG*4380 Bioreactor Design F (3-2) [0.75] 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. <i>Prerequisite(s):</i> ENGG*3160	Scale integration (VLSI) digital circuits and implementing them in silicon. The topics of this course are presented at three levels of design abstraction. At device level: MOS diode; MOS (FET) transistor; interconnect wire. At circuit level: CMOS inverter; static CMOS gates (NAND, NOR); dynamic gates (NAND, NOR); static latches and registers; dynamic latches and registers; pipelining principles and circuit styles; BICMOS logic
ENGG*4390 Bio-instrumentation Design F (3-2) [0.75]	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
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.	shifter; memory design and array structure; low power design circuits and architectures. (First offering - Fall 2010) <i>Prerequisite(s):</i> ENGG*2410, ENGG*2450, ENGG*3450
Prerequisite(s): ENGG*3450	ENGG*4560 Embedded System Design W (3-3) [0.75]
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. <i>Prerequisite(s):</i> ENGG*2120, <i>Co-requisite(s):</i> ENGG*3170	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 CUPs; 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 Tobotics, Automobile, and Communication Systems. (First offering - Winter 2011)
ENGG*4420 Real-time Systems Design F (3-3) [0.75]	Prerequisite(s): ENGG*4550 Co-requisite(s): ENGG*3050
Hard versus soft real-time systems. Real-time issues in computer architecture. Clocks	ENGG*4660 Medical Image Processing W (3-2) [0.50]
and timing issues. Correctness and predictability. Structuring and describing real-time software. Clock Synchronization. Real-time objects and atomicity. Validation of timing constraints. Formal Real-time systems design and analysis techniques: process-based, event-based, and Petri Nets. Resource management and control. Real-time scheduling and task allocation (Uni-processor and Multi-processor). Design for dependability, reliability and fault tolerance. Real-time programming using ADA. Survey of Real-time operating systems. Scenarios of real-time systems. <i>Prerequisite(s):</i> CIS*3110 ENGG*4430 Neuro-Fuzzy and Soft Computing Systems W (3-0) [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
Introduction to Fuzzy systems; Fuzzy Sets; Fuzzy Rules and Fuzzy Reasoning; Fuzzy	effect image quality will be covered: x-ray radiology, MRI, ultrasound, and nuclear
Inference Systems; Fuzzy Control; Introduction to Neural and Automata Networks; Neural Network Paradigms; Supervised Learning Neural Networks, Learning from Reinforcement, Unsupervised Learning, Robust Neurocontrol; Adaptive Neuro-Fuzzy Inference Systems, Coactive Neuro-Fuzzy Modeling; Reinforcement Learning Control, Gradient-Free Optimization, Feedback Linearization and Sliding Control; Applications: Quality Assurance, Decision Aid Systems, Automatic Character Recognition, Inverse Kinematics Problems, Automobile MPG (Miles Per Gallon) Prediction, System Identification, Channel Equalization, Adaptive Noise Cancellation, Process Control. <i>Prerequisite(s):</i> ENGG*3410 <i>Co-requisite(s):</i> ENGG*4280	medicine. <i>Prerequisite(s):</i> ENGG*3390

#### ENGG\*4450 Large-Scale Software Architecture Engineering F (3-2) [0.50]

This course introduces the students to the analysis, synthesis and design of large-scale software systems at the architectural level. This is in contrast to the algorithmic and data structure viewpoint of most software systems. Large-scale software systems are complex, execute on many processors, under different operating systems, use a particular or many language(s) of implementation, and typically rely on system layers, network connectivity, messaging and data management and hardware interfacing. The material covered includes architectural styles, case studies, architectural design techniques, formal models, specifications and architectural design tools. The laboratory sessions will expose the students to analyzing and redesigning an existing large-scale software system.

Prerequisite(s): (CIS\*2420 or CIS\*2520), ENGG\*2100

# English

School of English and Theatre Studies

- 1. ENGL\*1080 and ENGL\*2080 provide a strong foundation for English studies at the University level and are required courses for students intending to major or minor in English. These linked courses expose students not only to a broad range of texts from different countries and historical periods but also to some of the exciting developments in the discipline.
- 2. Honours major students are required to take the seminar courses ENGL\*2120, ENGL\*2130, ENGL\*3940, ENGL\*3960, preferably in their 3rd, 4th, 5th and 6th semesters. ENGL\*1080 is a pre-requisite to ENGL\*2120 and ENGL\*2130; ENGL\*2080 is a pre-requisite to ENGL\*3940 and ENGL\*3960.
- Honours major students are required to take two 4000-level seminars, preferably in their 7th and 8th semesters. The prerequisites for the 4000-level seminars are ENGL\*2080 plus one of ENGL\*2120, ENGL\*2130 plus one of ENGL\*3940, ENGL\*3960.
- 4. Honours minor students are required to take the seminar course ENGL\*2120 and **one** of ENGL\*2130, ENGL\*3940, ENGL\*3960, preferably in their 3rd to 6th semester.
- 5. Many English lecture courses are offered on alternate years only and many English seminars have variable content. For more information, students should consult the School's home page at http://www.arts.uoguelph.ca/sets/.
- 6. Many English lecture courses are reading-intensive while seminar courses are writing and presentation-intensive. Honours major students are advised to take **two** lectures and **one** seminar per semester beginning in their 3rd semester.
- 7. WRITING- AND PRESENTATION-INTENSIVE: Seminars emphasize written and oral work to help students develop the critical reading and writing skills essential to their learning throughout the curriculum.
- 8. READING-INTENSIVE: Lectures emphasize breadth of reading, contexts, and comparisons, to help students develop the knowledge base essential to their understanding of the field. In order to allow essay-writing to be concentrated in seminars, assignments in lecture courses will not predominantly take the traditional essay form but a range of other formats.

### ENGL\*1080 Literatures in English I: Reading the Past F,W (3-0) [0.50]

This course introduces students to a range of historical and national writings in prose, poetry, and drama, and to some of the key terms and concepts in contemporary literary studies. Lectures and discussions address selected works from the middle ages onwards, the periods in which these works were produced, and some of the ways in which these texts have been or could be interpreted. ENGL\*1080 and its companion course, ENGL\*2080, are required for a major or minor in English. Students are encouraged to enrol in ENGL\*2080 in the semester after they have completed ENGL\*1080. Reading-and writing-intensive course.

*Equate(s):* ENGL\*1060

### ENGL\*1200 Reading the Contemporary World F,W (3-0) [0.50]

This course, which is designed primarily for those not planning a specialization in English, introduces students to literary texts and persuasive forms of writing, bringing to the fore some of the links between language and contemporary social and political issues. Course materials will represent diversity in terms of national origins, gender, race, and class. The course emphasizes the use of figurative language as well as the development of students' critical reading and writing skills. Students planning to major or minor or pursue an area of concentration in English must take ENGL\*1080 and ENGL\*2080, but may also take ENGL\*1200 and count it as an elective lecture. (Also offered in distance education format.)

#### ENGL\*1410 Major English Writers U (3-0) [0.50]

This course offers an introduction to the study of literature through a chronological consideration of works by selected major authors from the Middle Ages to the 20th century, in relation to their social, intellectual and literary backgrounds. Instruction and practice in effective essay writing will be included. (Offered through Distance Education only.)

#### 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 Latina/os primarily in the U.S. Because different Latina/o groups have been concentrated in particular U.S. regions and cities, the approach allows students to study how Latina/o literature and art have shaped the politics and culture of different regions and cities. Reading-intensive course. (Offered in odd-numbered years.)

*Prerequisite(s):* 1 of DRMA\*1000, 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\*1080Equate(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 writing and discussion. (Choices of approaches and texts will be determined by individual instructors.) Writing- and presentation-intensive course.

Prerequisite(s): ENGL\*1080

### ENGL\*2130 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.

*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):* ENGL\*1080 or ENGL\*1200

#### 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.

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 Native literatures and their contexts in North America. One purpose of the course is to raise questions about the meaning of the U.S. - Canadian border for Native writers. Reading-intensive course.

*Prerequisite(s):* ENGL\*1080 or ENGL\*1200

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):* ENGL\*1080 or ENGL\*1200

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 experiment, 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): ENGL\*1080 or ENGL\*1200
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): ENGL\*1080 or ENGL\*1200
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 DRMA\*1000, ENGL\*1080, ENGL\*1200), ENGL\*2040

## ENGL\*3080 History of the English Language W (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. (Offered in even numbered years.)

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 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 Skelton, Wyatt, Surrey, Mary Stuart, the Sidneys, Spenser, Marlowe, Shakespeare, Raleigh, Aemilia Lanyer, Mary Wroth, Elizabeth I, Jonson, Donne, and Herbert). Reading-intensive course. (Offered in odd-numbered years.)

Prerequisite(s): 1.00 credits in English.

ENGL\*3180 Colonial Encounters: Nation and Discovery W (3-0) [0.50]

This course examines writings concerning, or alluding to, English (and other European) encounters with new worlds and different cultures. These will include accounts of travel, conquest, and colonization written or collected by such writers as Bernal Diaz, Luis de Camoës, Columbus, Hakluyt, Raleigh, Harriot, Drake, and Bradford; essays by writers such as Las Casas, Spenser, and Montaigne; and plays, poems, and prose such as Marlowe's Tamburlaine, Shakespeare's The Tempest, Jonson, Chapman, and Marston's Eastward Ho, parts of Spenser's Faerie Queene, Marvell's "Bermudas", and Behn's Oronooko: or the Royal Slave. Key intertexts to these writings will also be studied, along with relevant aspects of postcolonial theory. 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 and Jacobean 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 kingship, transgression, rhetoric, and the relation between political subjection and literary subjectivity. The course will establish connections between early modern notions of power and its manipulation, and contemporary critical and political discourses in which similar issues are at stake. A wide range of materials chosen from such authors as More, Ascham, Castiglione, Montaigne, Ariosto, Sidney, Puttenham, James I., Nash, Fennor, Bacon, Lyly, Marston, Greene, and Lodge will be examined by way of close readings. 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 sufferage reform and agitation, the colonization of Ireland, the construction of political subjectivity, political paranoia, conspiracy and sedition. Reading-intensive course. (Offered in odd-numbered years.)

Prerequisite(s): 1.00 credits in English.

ENGL\*3230 Literary Culture and the English Civil War W (3-0) [0.50]

This course will examine key literary figures and texts in the period leading up to and including the English Civil War (1623-1660). Literary contributions to the political and religious struggles of the period will be studied in the light of a range of different approaches. Primary readings will be selected from among the works of such writers as Milton, Marvell, Charles I, Hobbes, Coppe, Winstanly, Everard, Katherine Philips, Jonson, Webster, Middleton, and Massinger. Reading-intensive course.(Offered in even-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] ENGL\*3540 Writing the United States: Forging the Nation F (3-0) [0.50] This multigenre course explores the relationship between literary production and political 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 power from the emergence of American culture in the seventeenth century to the of family and society; science and narrative; Britain's "others"; class and conflict; protest fragmentation of the United States around the time of the Civil War in the mid-nineteenth and power; the roots of modernism; European influences. Reading-intensive course. century. Areas of focus may include national fantasy; the literature of revolution and (Offered in odd-numbered years.) federation; narratives of slavery, captivity, and native genocide; immigration and travel literature; the literature of reform, abolition, and the cult of domesticity. Reading-intensive Prerequisite(s): 1.00 credits in English. course. (Offered in even-numbered years.) ENGL\*3340 British Imperial Culture F (3-0) [0.50] Prerequisite(s): 1.00 credits in English. This multi-genre course introduces students to the literature of British imperialism in the ENGL\*3550 Modern United States Literatures W (3-0) [0.50] eighteenth and nineteenth centuries. The course will consider the changing relationship between nation, empire, and colony by examining literary representations of such topics This multigenre course explores powerful examples of twentieth-century United States as: orientalism; travel writing; the construction of race; the representation of trade; the literatures, from about the First World War to the present. The selection is wide, including popular literature of empire; children's literature; the question of the other. both traditional and experimental forms; female and male writers from various ethnic Reading-intensive course. (Offered in even-numbered years.) and racial groups; and a range of cultural issues. Reading-intensive course. (Offered in odd-numbered years.) Prerequisite(s): 1.00 credits in English. Prerequisite(s): 1.00 credits in English. ENGL\*3360 Scottish Formations F (3-0) [0.50] ENGL\*3560 Emergent Literary Forms W (3-0) [0.50] This variable content course explores selected issues, ideas and periods of this national This course will introduce students to a range of medieval writing practices including literature, including influences on immigrant and world literature. Topics may include: mythologizing the Celt; Scottish writers and English critics; sovereignty and nationhood; manuscript culture, oral culture, early drama, literatures in translation, early lyric, and 'new wave" writing; Scottish influences on the Canadian canon; witches, devils, and so forth. Its focus will be on the transition from oral to written literatures by way of folk tales. Reading-intensive course. (Offered in even-numbered years.) emergent literary forms in English and other languages. The texts to be studied will be chosen from a corpus that includes the following: Monmouth's History of the Kings of Prerequisite(s): 1.00 credits in English Britain, the Lais of Marie de France, Chretien de Troyes, Layamon's Brut, the Mabinogion, ENGL\*3370 Narrative Modes: 18th- and 19th-Century Literature W (3-0) [0.50] Harald's Saga, the Chanson de Roland, extracts from saints' lives, miracle stories, play This course offers comparative study of narrative structures, which includes selections cycles, and others. Reading-intensive course. (Offered in even-numbered years.) from such genres as poetry, fiction, biography, autobiography and specialized discourses. Prerequisite(s): 1.00 credits in English. Focal points may include romance; the gothic; the novel of sensibility; the realist novel; ENGL\*3570 Chaucer in Context F (3-0) [0.50] sensation fiction; the discourses of medicine and science. Reading intensive courses This course will introduce students to significant aspects of Chaucer's writing read in the (Offered in even-numbered years.) context of works by Chaucer's precursors and near contemporaries. Reading-intensive Prerequisite(s): 1.00 credits in English. course. (Offered in even-numbered years.) ENGL\*3380 Studies in the History of Literary Production W (3-0) [0.50] Prerequisite(s): 1.00 credits in English. This course will examine a range of issues arising from the materiality of book production ENGL\*3630 Writing Canada: Forging the Nation W (3-0) [0.50] and circulation. Topics may include serialization; mass production and circulation; patronage; reviewing; circulating libraries; licensing; censorship; children's literature; This multigenre course focuses on Canadian literature to World War One, examining periodicals; gift books; letters; and other aspects of publishing and the public sphere. cultural contestation in the Canadian settler colony among the Canadian, U.S., British, Reading-intensive course. (Offered in odd-numbered years.) 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 Prerequisite(s): 1.00 credits in English. literature, slavery and resistance narratives, travel and captivity narratives. ENGL\*3420 Contemporary Drama W (3-0) [0.50] Reading-intensive course. (Offered in odd-numbered years.) This course offers a selective study of recent play-scripts written in English. Students Prerequisite(s): 1.00 credits in English. are advised to consult the web-descriptions for the particular focus of the course's offering. ENGL\*3660 Canadian Poetry W (3-0) [0.50] (Offered in odd-numbered years.) This course is an introductory study of Canadian poetry, in a variety of national and Prerequisite(s): 1.00 credits in English or (THST\*2010, THST\*2120) international contexts. Reading-intensive course. (Offered in even-number years.) ENGL\*3450 Early Twentieth-Century Drama F (3-0) [0.50] Prerequisite(s): 1.00 credits in English. This course considers contexts for the development of play-scripts written in English ENGL\*3670 Twentieth-Century Canadian Literature and Criticism F (3-0) [0.50] during the first part of the twentieth century. (Offered in odd-numbered years.) This multigenre course examines formations of, and resistances to, ideas of national Prerequisite(s): 1.00 credits in English or (THST\*2010, THST\*2120) consciousness and cultural identity in Canadian literature and criticism in English from ENGL\*3460 Literature in London U (2-3) [0.50] the beginnings of the twentieth century to the 1960s. Reading-intensive course. (Offered A study of British literature in its social and historical context. Reading of particular in even-numbered years.) works will be supplemented by visits to sites of literary interest, the use of special library Prerequisite(s): 1.00 credits in English. and museum collections, and attendance at public lectures and performances. For London ENGL\*3680 Twentieth-Century Canadian Literature and Criticism F (3-0) [0.50] This course examines the role of narrative in Canadian literature and criticism in English, Prerequisite(s): Admission to the London Semester. since the 1960s, in relation to a variety of social, cultural, and historical contexts. ENGL\*3470 Twentieth-Century British Literature I W (3-0) [0.50] Reading-intensive course. (Offered in odd-numbered years.) This multigenre course explores aesthetic and socio-cultural movements (including Prerequisite(s): 1.00 credits in English. modernism) in British literature from the turn of the century to mid-century ENGL\*3690 History of Literary Criticism F (3-0) [0.50] Reading-intensive course. (Offered in odd-numbered years.)

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 vears.)

Prerequisite(s): 1.00 credits in English.

course. (Offered in odd-numbered years.) Prerequisite(s): 1.00 credits in English.

Prerequisite(s): 1.00 credits in English.

ENGL\*3480 Twentieth-Century British Literature II F (3-0) [0.50]

This multigenre course explores aesthetic and socio-cultural movements (including

postmodernism) in British literature from mid-century to the present. Reading-intensive

Semester students only.

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ENGL*3740 United States Imperial Culture F (3-0) [0.50]	ENGL*4040 Medieval & Early Modern Literatures U (3-0) [0.50]
This multigenre course will introduce students to a period of intense cultural struggle in the United States, from Civil to First World War (i.e. from the mid nineteenth to	This seminar provides the opportunity for intensive study of British literature from the
the United States, from Civil to First World War (i.e. from the mid-nineteenth to early-twentieth centuries). Topics for consideration may include the literary representation	beginnings to 1660.
of race, civil war, and empire; machine and mass culture; emergent literatures and	<i>Prerequisite(s):</i> ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
changing constituencies of American citizenship. Reading-intensive course. (Offered in	ENGL*4050 18th- & 19th-Century Literatures U (3-0) [0.50]
odd-numbered years.)	This seminar provides the opportunity for intensive study of British literature from 1660
Prerequisite(s): 1.00 credits in English.	to 1900.
ENGL*3750 Studies in Postcolonial Literatures W (3-0) [0.50]	Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
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,	ENGL*3960)
Australia, Canada, the Caribbean, India, and the Pacific. Reading-intensive course.	ENGL*4070 United States Literatures U (3-0) [0.50]
(Offered in odd-numbered years.)	This seminar provides the opportunity for intensive study of American literature.
Prerequisite(s): 1.00 credits in English.	Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
ENGL*3760 The Atlantic Diaspora: Colonialism, Resistance, Literatures W (3-0)	ENGL*3960)
[0.50]	ENGL*4080 Canadian Literatures U (3-0) [0.50]
This course examines literatures in English in the Atlantic colonies (selected from among	This seminar provides the opportunity for intensive study of Canadian literature.
Canada, the Caribbean, the United States, and Latin America) in the context of movements	Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
of peoples and cultures from Africa, Europe, and India across the Atlantic Ocean. Discussion will focus on eighteenth- and nineteenth-century texts addressing such issues	ENGL*3960)
as cross-cultural contacts with indigenous peoples, the slave trade and abolition	ENGL*4100 Special Studies in English U (3-0) [0.50]
movements, and the kinds of culture developing in these evolving societies. Texts will	A seminar designed to provide students in semesters 7 and 8 with an opportunity to pursue
be selected from among the rich array of poetry, fiction, memoirs, letters, travel accounts, period histories and ethnographies, autobiographies and folkloric records that formed	studies in an area or areas of language or literature not available in other courses. The
the literary culture of this period. Attention may be paid to diverse forms of oral and	course may be taught by a visiting professor or members of the school.
written expression, linguistic changes, the Creole continuum, the evolution of national	<i>Prerequisite(s):</i> ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
and racial stereotypes, and religious syncretism. Reading-intensive course. (Offered in	ENGL*4110 Special Studies in English U (3-0) [0.50]
even-numbered years.)	
Prerequisite(s): 1.00 credits in English.	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
ENGL*3820 Study in a Major Author W (3-0) [0.50]	course may be taught by a visiting professor or members of the school.
This variable-content course provides an intensive study of works by a single writer.	Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
Reading-intensive course. (Offered in even-numbered years.)	ENGL*3960)
<i>Prerequisite(s):</i> 1.00 credits in English.	ENGL*4200 Postcolonial Literatures U (3-0) [0.50]
ENGL*3860 Topics in Literary and Cultural Studies U (3-0) [0.50]	This course provides the opportunity for intensive study of a representative selection of
These variable-content courses provide opportunities for topics in cross-period studies,	literature in English by writers from Africa, India, the Caribbean, Australia, and the
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.	Pacific.
Reading-intensive course.	<i>Prerequisite(s):</i> ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
<i>Prerequisite(s):</i> 1.00 credits in English.	ENGL*4210 Modern and Contemporary Literatures U (3-0) [0.50]
ENGL*3870 Topics in Literary and Cultural Studies U (3-0) [0.50]	This course provides the opportunity for a study of significant works in fiction, poetry,
These variable-content courses provide opportunities for topics in cross-period studies,	and drama that demonstrate new approaches in form and content characteristic of
inter- and transdisciplinary studies and cultural studies, among others that are not available	20th-century writings in English.
in regular offerings. Consult the School for specific offerings in a given semester.	Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
Reading-intensive course.	ENGL*3960)
Prerequisite(s): 1.00 credits in English.	ENGL*4220 Special Topics in Women's Writings U (3-0) [0.50]
ENGL*3880 Topics in Literary and Cultural Studies U (3-0) [0.50]	This course provides for intensive study of issues relating to the aesthetic strategies, such
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	as those associated with structure, imagery, and language, devised by women writers to reflect women's experience and perceptions.
in regular offerings. Consult the School for specific offerings in a given semester.	
Reading-intensive course.	<i>Prerequisite(s):</i> ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Prerequisite(s): 1.00 credits in English.	ENGL*4300 Non-fiction Prose U (3-0) [0.50]
ENGL*3940 Seminar: Form, Genre, and Literary Value F,W (3-0) [0.50]	This course offers an intensive study of non-fiction prose. Topics to be explored may
This seminar focuses on textual conventions such as form, style, and genre as they inform	include the roles and contexts of public and/or private writing, the role of literary criticism
the interaction between reader and text. The impact of these conventions on the processes	in reading texts sometimes marked as non-literary, the history of non-fictional prose
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	forms, or the formal or ideological uses of the distinctions between fact and fiction.
and texts to be determined by individual instructors.) Writing- and presentation-intensive	<i>Prerequisite(s):</i> ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
course.	ENGL*3960)
Prerequisite(s): ENGL*2080	ENGL*4680 20th-Century Poetry U (3-0) [0.50]
ENGL*3960 Seminar: Literature in History F,W (3-0) [0.50]	This seminar provides opportunities to study English-language modern and contemporary poetry.
This course explores the processes by which specific texts or genres emerge from particular	<i>Prerequisite(s):</i> ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
historical moments and by which we attempt to reconstruct those historically specific	ENGL*2080, (ENGL*2120 of ENGL*2150), (ENGL*5940 of ENGL*3960)
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\*4690 Contemporary Literary Theory W (3-0) [0.50]

The study of the major branches of contemporary literary theory. Topics covered will include structuralism, reader-oriented theory, feminist theory, new historicist and materialist critique, postcolonialist critique, and deconstruction.

Prerequisite(s): ENGL\*2080, (ENGL\*2120 or ENGL\*2130), (ENGL\*3940 or ENGL\*3960)

#### 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\*2940Restriction(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.

### ENGL\*4910 Honours English Essay S,F,W (3-0) [0.50]

A major essay (approx. 25 pages) on some subject of special interest to the student is prepared and written under the direction of a faculty member. Consent of the instructor must be obtained and the subject must be approved by the School prior to the semester in which the course is to be taken. This option is intended only for students who have performed particularly well within the honours program. Exceptional students may use ENGL\*4910 for creative writing, on the approval of the instructor.

Prerequisite(s):	ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or
	ENGL*3960)
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Restriction(s): Instructor consent required.

Environmental Biology	ENVB*3040 Natural Chemicals in the Environment F,W (3-0) [0.50]
Department of Environmental Biology Additional course listings may be found in the course descriptions for Microbiology, Plant Biology, Toxicology and Zoology.	The role of naturally occurring chemical substances in the inter-relationships of organisms, population dynamics and the structure of ecosystems, and the role of such chemicals in the biological regulation and control of pests. (Also offered through distance education format.)
ENVB*1010 Food Crop Pest Management W (2-2) [0.50]	Prerequisite(s): BIOL*1040
The biology and control of insects, diseases, nematodes and weeds of field horticultural crops are studied. Pest control concepts including diagnosis and the biology of the pests,	ENVB*3090 Insect Diversity and Biology W (3-3) [0.50]
problem solving and the impact pest control products have on the environment with consideration to the safe use and storage or pesticides will be thoroughly examined. Non-chemical methods of pest control are also examined.	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.
Restriction(s):     Registered in B.B.R.M.       Location(s):     Ridgetown	Prerequisite(s): BIOL*1040
ENVB*2010 Food Production and the Environment W (3-0) [0.50]	ENVB*3160 Management of Turfgrass Diseases F (3-2) [0.50] Ecology of turfgrass diseases and cultural methods of management will be emphasized,
Systems of food production are described and related to their impact on the environment and food safety. Consumer demands and the effects of food processing and packaging will be discussed. Issues of population pressure and sustainable development will be explored. For non-B.Sc.(Agr.) students. <i>Prerequisite(s):</i> 2.50 credits	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. (First offering Fall 2008.) <i>Prerequisite(s):</i> HORT*2450 <i>Restriction(s):</i> DTM*3200
Restriction(s): AGR*1250. Not available to students registered in B.Sc. (Agr.)	ENVB*3210 Plant Pathology F (2-3) [0.50]
ENVB*2030 Current Issues in Forest Science F (3-0) [0.50]	The nature of disease in plants and a study of the basic principles of control. A collection
Basic principles of forestry and forest management with emphasis on Canada's forests. Relationship of important tree species to their preferred environments. Aspects of tree growth, forest ecology and soils and silviculture. Utilization of forests and trees in the	of 30 plant disease specimens is required. <i>Prerequisite(s):</i> BIOL*1040
global context.	ENVB*3250 Forest Health and Disease F (2-2) [0.50]
Prerequisite(s): BIOL*1040	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
ENVB*2040 Plant Health and the Environment W (3-0) [0.50]	course. Emphasis will be placed on ecological processes, host-pathogen interactions,
This is an interdisciplinary course on the nature and importance of diseases, weeds, insects and abiotic stresses on plant productivity and quality. A case history approach will be	mutualistic associations, wood decay, and human impacts on tree health. <i>Prerequisite(s):</i> ENVB*2030 or BOT*2100
used to illustrate the biology of plant pests, the principles of pest population management,	ENVB*3280 Waterborne Disease Ecology F (3-2) [0.50]
and related topics.	Emerging and re-emerging waterborne diseases (bacterial, protozoan, and viral) as a
Prerequisite(s):       BIOL*1040         ENVB*2100 Problem-Solving in Environmental Biology F,W (2-2) [0.50]	function of environmental change (including chemical and biological pollution and climate change) are covered in this course. Waterborne diseases, in freshwater and marine
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.	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): BIOL*1040, (CHEM*1050 or CHEM*1310), MATH*1080	Prerequisite(s): BIOC*2580, MBG*2000
ENVB*2210 Introductory Apiculture F,W (3-0) [0.50]	ENVB*3300 Applied Ecology and Environment F (2-2) [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.)	Environmental issues require scientific analysis. The applications of ecology, the science of diversity, abundance, and activities of living things and their interactions with the physical and biotic environment, are presented as the basis for sustainable agricultural practices, ecosystem rehabilitation, and conservation. Use of ecological principles in planning and policy are debated in local, regional, national, and global contexts.
ENVB*3000 Nature Interpretation F,W (2-3) [0.50]	<i>Prerequisite(s):</i> 1 of BIOL*2060, CROP*2110, (BIOL*3110, BIOL*3120)
An exploration of communication and experiential learning theories and their application to natural history interpretation and environmental education program design. Students	ENVB*3330 Ecosystem Processes and Applications W (3-0) [0.50]
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.) <i>Prerequisite(s):</i> 1 of BIOL*2060, BOT*2050, BIOL*3110	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
ENVB*3010 Climate Change Biology F (3-0) [0.50]	is surveyed in several highly impacted ecosystems.
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	Prerequisite(s): BIOL*1040, (1 of BIOL*2060, BIOL*3110, BOT*2050), (CHEM*1050 or CHEM*1310)
biological systems.	ENVB*4020 Water Quality and Environmental Management F (3-3) [0.50]
<i>Prerequisite(s):</i> BIOL*1040, (1 of BIOL*2060, BIOL*3110, BOT*2050), (CHEM*1050 or CHEM*1310)	This course will introduce the student to issues pertaining to water quality, how to assess environmental impacts, and strategies for the management of water resources. Examples and case studies will draw from agricultural, industrial and municipal sources. Topics
ENVB*3030 Pesticides and the Environment W (3-2) [0.50]	include: historical perspectives, methods to assess water quality, restoration and
The role and use of pesticides by various facets of society and the effect of these pesticides on biological activities in the environment. A research proposal is required.	rehabilitation of impacted aquatic habitats, and risk assessment and management of water resources.
<i>Prerequisite(s):</i> BIOL*1040, (CHEM*1040 or CHEM*2300)	Prerequisite(s): BIOL*2060
	ENVB*4040 Behaviour of Insects W (3-0) [0.50] Investigation of 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, ZOO*4380, ZOO*4400

#### ENVB\*4070 Biological and Cultural Control of Plant Diseases W (3-0) [0.50]

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.

Prerequisite(s): 1 of BIOL\*3050, ENVB\*3210, MICR\*3220

#### ENVB\*4100 Applied Entomology W (3-3) [0.50]

A study of the life histories and pest management practices employed against insect pests of various plant and animal hosts. Principles of economic entomology are illustrated using specific insect pests as examples.

*Prerequisite(s):* 1 of ENVB\*3090, 0.50 credits in Crop Production at the 3000 level

#### 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 mange 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.

#### Prerequisite(s): ENVB\*3040

#### ENVB\*4220 Biology of Aquatic Insects F (2-3) [0.50]

A study of the adult and immature forms of aquatic insects. Students are required to present a collection of at least 200 insects.

*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 (1-6) [0.50]

An introduction to insect sampling, observation, and experimentation in field situations. Lectures and discussions on the biology of the insect fauna of the field site. Students conduct two projects (individual or small group): (1) a diversity study involving the observation, collection and identification of selected groups of insects and (2) a behaviour/ecology study utilizing experimental techniques to test hypotheses. Student evaluation based on participation in course activities and written reports. Course fees cover the costs of room, board, equipment, and transportation to the field station. Detailed information is available from the Office of the Chair - Department of Environmental Biology. This course must be recorded as part of your Fall course selection and tuition and compulsory fees will be calculated accordingly.

Prerequisite(s): 1.00 or more credits in biological sciences, ENVB\*3090

#### 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\*4290 Applied Insect Physiology F (2-3) [0.50]

This course examines major physiological systems of insects at the molecular, cellular and whole animal levels of organization. Emphasis is placed on identification of potential physiological targets for insecticides, and molecular mechanisms of insecticide resistance. Applications of analytical chemistry, electrophysiology, mathematical modeling and molecular biology to the study of insect physiology are discussed. The course includes tutorial exercises examining the external and internal morphology of representative insect species.

Prerequisite(s): STAT\*2040, (1 of ENVB\*3030, ENVB\*3040, ENVB\*3090,

TOX\*2000, ZOO\*3200)

### ENVB\*4420 Problems in Environmental Biology S,F,W (0-6) [0.50]

Students will select a research problem in an area of special interest. Direction will be given by a faculty member concerned with entomology-apiculture, applied microbiology, weed science and environmental physiology, plant pathology, etc., as represented within the department. For 7th and 8th semester students considering graduate studies.

Prerequisite(s): 1.50 credits at the 3000 level in the agricultural and biological sciences

Restriction(s): Instructor consent required.

#### ENVB\*4550 Ecotoxicological Risk Characterization W (3-0) [0.50]

A biologically based, advanced course that will give students working knowledge of current processes and techniques for ecotoxicological risk characterization. The course material will cover the topics of problem definition, dose response characterization, exposure characterization, risk assessment, and risk management decision making. (Also listed as TOX\*4550.)

Prerequisite(s): ENVB\*3030, TOX\*2000 Equate(s): TOX\*4550

Equale(s):  $IOX^{*4}$ 

# ENVB\*4780 Forest Ecology F,W (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. (Also offered through distance education format.)

Prerequisite(s): 1 of BOT\*2050, BIOL\*2060, BIOL\*3110, ENVB\*2030

### ENVB\*4800 Topics in Applied Biology F (2-2) [0.50]

An integrated overview of those areas of applied biology that are of special interest to environmentalists. The material will be directed toward students majoring in Environmental Biology and Environmental Protection. Lectures and discussions will be presented by faculty and other professionals from research, business, education and technical fields. Students will conduct seminars on selected topics.

 Prerequisite(s):
 1.50 credits at the 3000 level in the agricultural or biological sciences

 Restriction(s):
 Restricted to B.Sc. (Environmental Biology major) or B.Sc. (Env.)

 (Environmental Protection major.)

Environmental Management	ENVM*1150 Water Resource Management W (3-2) [0.50]
ENVM*1000 Introductory Environmental Science F (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
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	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. (First offering - Winter 2008)
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):       Ridgetown
Restriction(s): Registered in B.B.R.M.	ENVM*2020 Environmental Law F (3-2) [0.50]
Location(s): Ridgetown	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
<b>ENVM*1020 Introduction to Environmental Microbiology W (2-3) [0.50]</b> 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	and across Canada. The course will focus on environmental legislation at both the federal and provincial levels of government. (First offering - Fall 2007) <i>Restriction(s):</i> Registered in B.B.R.M. <i>Location(s):</i> Ridgetown
testing of public drinking water, how to monitor for cleanliness in food processing facilities	ENVM*2050 Agriculture and Environmental Stewardship F (3-2) [0.50]
as well as water ways used for recreational purposes. Student immunization records are required. See course instructor. <i>Restriction(s):</i> Registered in B.B.R.M. Environmental Management. Instructor consent	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
required. Location(s): Ridgetown	associated with specific farm operations and the utilization of best management practices for the conservation of soil, water and other natural resources.
ENVM*1050 Surveying and GIS F (3-2) [0.50]	Prerequisite(s): BIOL*1030
This course covers the basic principals of surveying, map reading and production. The	Restriction(s): Registered in B.B.R.M. Location(s): Ridgetown
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	ENVM*2060 Sewage and Wastewater Treatment F (2-3) [0.50]
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.	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
Restriction(s):     Registered in B.B.R.M.       Location(s):     Ridgetown	calculations, legal requirements and operator responsibilities will be addressed. (First offering - Fall 2007)
ENVM*1070 Nutrient Management W (3-2) [0.50]	Prerequisite(s): ENVM*1120
This course will examine the best management practices associated with nutrient	Restriction(s): Registered in B.B.R.M. Location(s): Ridgetown
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.	ENVM*2070 Water Treatment F (2-3) [0.50] This course provides the student with the basic design concepts and operational techniques
Restriction(s):       Registered in B.B.R.M.         Location(s):       Ridgetown	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
ENVM*1090 Occupational Health and Safety F (3-2) [0.50]	responsibilities will be addressed. (First offering - Fall 2007)
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	Prerequisite(s):ENVM*1020 is strongly recommended, ENVM*1120Restriction(s):Registered in B.B.R.M. Environmental ManagementLocation(s):Ridgetown
Hazardous Material Information System, Material Safety Data sheets, and the responsibilities of Joint Health and Safety Committees and confined space entry. Hazards	ENVM*2080 Industrial Waste Management W (3-2) [0.50]
to human health resulting from exposure to a variety of physical and chemical hazards	The course is designed to give students a thorough understanding of the field of industrial
found in the workplace will be examined.         Restriction(s):       Registered in B.B.R.M.         Location(s):       Ridgetown, Kemptville	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
ENVM*1100 Ecology F (3-2) [0.50]	and waste minimization programs with emphasis on the development and design of programs that collect wastes generated in the Industrial, Commercial and Institutional
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	sectors. Waste minimization, ISO 14001 and Environmental Management Systems methodologies are explored. (First offering - Winter 2008) <i>Prerequisite(s):</i> 3.00 credits. <i>Restriction(s):</i> Registered in B.B.R.M.
case studies of several environmental problems will be carried out, using ecological principles. (First offering - Fall 2007)	Location(s): Ridgetown
<i>Restriction(s):</i> Registered in B.B.R.M.	ENVM*2090 Spills Response Planning W (3-2) [0.50]
Location(s): Ridgetown ENVM*1120 Environmental Monitoring 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
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	<ul> <li>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. (First offering - Winter 2008)</li> <li><i>Prerequisite(s):</i> 3.00 credits</li> <li><i>Restriction(s):</i> Registered in B.B.R.M.</li> </ul>
instructor.         Restriction(s):       Registered in B.B.R.M. Instructor consent required.         Location(s):       Ridgetown	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. (First offering - Winter 2008)

Prerequisite(s):Minimum of 5.00 credits in the B.B.R.M. program, AGEC\*1100Restriction(s):Registered in B.B.R.M.Location(s):Ridgetown

# **Environmental Sciences**

#### Faculty 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\*2010 Decision-making and Communication Skills F (1-3) [0.50]

This course will cover basic concepts in creative thinking, research design, and project planning through discussion and application of a problem-solving methodology. A strong emphasis on oral and written presentations is included. (Last offering - Fall 2008)

*Prerequisite(s):* ENVS\*1010. Registration in semester 3.

### 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. (First offering - Fall 2008)

Prerequisite(s):ENVS\*1020, GEOG\*1300Restriction(s):Registration in the B.Sc. (Env.) program.

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 Associate Dean's Office (Faculty of Environmental Sciences). Details of the proposed activites will be outlined in a learning contract initiated by the student and agreed by the Associate Dean 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. The course is designed to meet the needs of B.Sc. (Env.) students. (This is not available to students in the B.Sc. (Env.) Co-op program.)

Prerequisite(s):12.50 credits including ENVS\*2010Restriction(s):Instructor 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. (First offering - Winter 2010)

Prerequisite(s):	11.00 credits including ENVS*1020, ENVS*2150, CHEM*1050
Restriction(s):	Registration in the B.Sc. (Env.) program.

#### ENVS\*3160 Atmospheric Systems W (3-2) [0.50]

In this course students will be taught how to apply quantitative methods to the analysis of atmospheric systems of the earth from many simultaneous perspectives. The material will include the physical, chemical and biological components of atmospheric structures and processes and also how they interact with humans. The economic, social and policy implications of humans interacting with atmospheric systems will also be emphasized. The history of the analysis of atmospheric systems will be systematically included in the material. (First offering - Winter 2010)

Prerequisite(s):11.00 credits including ENVS\*1020, ENVS\*2150Restriction(s):Registration in the B.Sc. (Env.) program.

#### ENVS\*3320 Principles of Landscape Ecology F (3-2) [0.50]

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. (Offered in even-numbered years.)

Prerequisite(s): 1 of BIOL\*2010, BIOL\*2060, BIOL\*3110, GEOG\*2110

# 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 7 or 8 of the B.Sc.(Env.) degree program.

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 7 or 8 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\*4220 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):* 15.00 credits including (1 of GEOG\*3210, POLS\*3370 or ZOO\*4050, where ZOO\*4050 may be taken concurrently)

#### ENVS\*4300 Environmental Law & Regulation F (3-2) [0.50]

In this course, students will be asked to recruit their expertise in all of the basic and applied sciences to the task of understanding, participating in, and modifying where necessary the economic and legal systems of the world to deal with human exploitation of the earth. The course will include a discussion of the history of the success and failure of different economic and legal models and their impact on the sustainability of the earth's resources.

*Prerequisite(s):* 14.00 credits

Restriction(s): Registration in the B.Sc. (Env.) program.

ENVS\*4500 International Environmental Field Course F (0-6) [0.50]

This is an interdisciplinary field course to be held overseas. The course will include a common curriculum for all students, dealing with the historical, geographical, cultural and biological aspects of the location. Students will also undertake a project which would normally relate to their own specific interest. Formal instruction on the common core element of the course will be given either by Guelph faculty and/or by faculty from the host country. Each student will submit both a paper developed from the general core of the course and also a project report. This course will run as Interdisciplinary Field Studies in Iceland in odd numbered years and will normally be held for a three-week period in August. Students from all disciplines are encouraged to apply directly to the course coordinator in the appropriate semester as indicated on the Faculty of Environmental Sciences webpage.

# Prerequisite(s): 12.50 credits

Restriction(s): Approval of the Faculty of Environmental Sciences.

Equine Management	EQN*2050 Introduction to Equine Nutrition W (3-3) [0.50]
Ontario Agricultural College EQN*1020 Horse Care Practicum I F (1-2) [0.00] This course provides hands-on learning in essential horse care and handling techniques	This course introduces fundamental concepts of nutrition from a biochemical perspective. The biological roles of carbohydrates, lipids and proteins are studied, as well as the role of metabolic pathways in maintaining equine health at the cellular, organ, and whole body levels. Diagnosis, management, and prevention of equine nutritional diseases are
such as grooming, bandaging and clipping. The emphasis is on daily and routine care of the horse. Safety is stressed throughout. Students may expect early morning and some weekend assignments. Depth of study is not meant to be exhaustive but rather to cultivate absolute proficiency in these areas.	discussed. (First offering - Winter 2009.) Prerequisite(s): BIOL*1040 Restriction(s): Registration in B.B.R.M. Equine Management Location(s): Kemptville
Restriction(s):       Registration in B.B.R.M. Equine Management         Location(s):       Kemptville	EQN*2200 Equine Industry Trends and Issues I W (3-0) [0.50]
<b>EQN*1030 Horse Care Practicum II W (1-2) [0.00]</b> This course provides hands-on learning in essential horse care and handling techniques such as feeding, lunging, and trailering. 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 these areas.	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. (First offering - Winter 2009.) <i>Prerequisite(s):</i> EQN*1100 <i>Restriction(s):</i> Registration in B.B.R.M. Equine Management
Prerequisite(s):EQN*1020Restriction(s):Registration in B.B.R.M. Equine Management	Location(s): Kemptville EQN*3050 Equine Exercise Physiology W (3-0) [0.50]
Location(s): Kemptville	This course considers the conversion of absorbed nutrients into metabolic fuels and the
EQN*1040 Equine Facility Management and Design W (3-0) [0.50]         This course presents aspects of the building, renovating and management of horse facilities including site planning and interior design. Special consideration is given to environmental control, waste management and environmental stewardship.         Restriction(s):       Registration in B.B.R.M. Equine Management Location(s):	use of these substrates for work and heat production in horses. This knowledge is used as a basis for the understanding of the training and performance of horses used for competitive purposes. (First offering - Winter 2010.) <i>Prerequisite(s):</i> EQN*2040, EQN*2050 <i>Restriction(s):</i> Registration in B.B.R.M. Equine Management <i>Location(s):</i> Guelph
EQN*1060 Equine Event Management I F (1-3) [0.50]	EQN*4020 Feeding the Performance Horse F (3-0) [0.50]
This course will introduce skills required to organize equine events, such as horse showsand clinics. Major topics include event planning, and managing event staff and volunteers.Required activities outside of regularly scheduled class hours will be assigned. Studentswill assist in the planning and staging of Equestrian Centre activities.Restriction(s):Registration in B.B.R.M. Equine ManagementLocation(s):Kemptville	This course focuses on the nutrition of horses at peak levels of performance or endurance.         The use of real-world, case-study scenarios allows for the evaluation of practical feeding programs across a range of equine performance situations (First offering - Fall 2010.)         Prerequisite(s):       EQN*3050         Restriction(s):       Registration in B.B.R.M. Equine Management         Location(s):       Kemptville
EQN*1070 Equine Event Management II W (1-3) [0.50]	EQN*4400 Equine Industry Trends and Issues II W (3-0) [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. <i>Prerequisite(s):</i> EQN*1060 <i>Restriction(s):</i> Registration in B.B.R.M. Equine Management	This seminar course integrates discussion on selected current global, national and regional issues in the equine industry, building upon knowledge gained in earlier courses. Current issues in the equine industry will be examined through debate and discussion. (First offering - Winter 2011.) <i>Prerequisite(s):</i> 16.00 credits including EQN*2200, EQN*4020 <i>Restriction(s):</i> Registration in B.B.R.M. Equine Management
Location(s): Kemptville	Location(s): Guelph
EQN*1100 Introduction to Equine Industry 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. <i>Restriction(s):</i> Registration in B.B.R.M. Equine Management Location(s):	
EQN*2020 Equine Management F (2-2) [0.50]	
This two-faceted course offers students a first-hand opportunity to manage the daily operations of an equine facility and to act in the capacity of a teaching assistant. Students oversee the diploma courses in Stable Management and Stable Duty through supervising barn personnel, dealing with time and financial constraints, managing efficient productivity, teaching horse care skills, and professionalism in the workplace. (First offering - Fall 2008.) <i>Prerequisite(s):</i> EQN*1030, ENVM*1090, AGR*2100 <i>Restriction(s):</i> 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. (First offering - Fall 2008.)

*Prerequisite(s):* BIOL\*1040 Registration in B.B.R.M. Equine Management Restriction(s): Location(s): Kemptville

# European Studies

School of Languages and Literatures

# EURO\*1050 The Emergence of a United Europe F (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 (3-0) [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\*2070 European Integration, 1957-1992 W (3-0) [0.50]

This interdisciplinary course aims to provide an in-depth analysis of the development of European integration from the establishment of the EEC to 1992. Major emphasis will be placed on the historical development of the European communities, their economic framework and political institutions. Other attempts at economic integration such as EFTA and Comecon will be considered in less detail.

Prerequisite(s):	1 of EURO*1050, HUMN*1050, permission from one of the instructors
	or Coordinator of European Studies

EURO\*2200 European Culture from the Mid 19th Century to the 1920's W (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 recommendedRestriction(s):EURO\*1020

# EURO\*2300 European Culture since 1920 F (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 recommendedRestriction(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):
 EURO\*1020 , EURO\*1050, EURO\*2000 , EURO\*2070

 Restriction(s):
 Approval of the Coordinator for European Studies.

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.

2007-2008 University of Guelph Undergraduate Calendar

Restriction(s):

# **External Courses**

All courses labeled XCST\*XXXX are Conestoga College Institute of Technology and Advanced Learning Courses. The corresponding Conestoga Course numbers are provided. Detailed course profiles can be accessed through the Conestoga College Institute of Technology and Advanced Learning home page at http://www.conestogac.on.ca/. All XCST\*XXXX courses are limited to students in the Career Development Practitioner program.

All courses labeled XSEN\*XXXX are Seneca College Courses. The corresponding Seneca Course numbers are provided. Detailed course profiles can be accessed through the Seneca College home page at http://www.senecac.on.ca/. All XSEN\*XXXX courses are limited to students in the B.Sc.(Tech.) program.

All courses labeled XSHR\*XXXX are Sheridan College Institute of Technology and Advanced Learning Courses. The course descriptions appear in the Sheridan College Institute of Technology and Advanced Learning academic calendar and can be accessed through the Sheridan College Institute of Technology and Advanced Learning home page a100t http://www.sheridanc.on.ca/. All XSHR\*XXXX courses are limited to students in the Sports Injury Management program.

### XSEN\*2010 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. This course is offered at Guelph.

External Course Code(s): Seneca #SES-391

### XSEN\*2020 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\*3020 Pharmaceutical Analysis F (2-4) [0.50]

The aim of this course is to simulate the pharmaceutical quality control laboratory. Students are introduced to pharmaceutical terms, definitions and forms, drug legislations, and regulatory agencies (FDA, TPP). Strong emphasis is placed on the navigation and interpretation of pharmacopeial compendia (USP, BP, EP). Practical aspects include physical, wet chemical and instrumental analyses of drug substances, in-process materials and finish products using official pharmacopeial methodologies. This course is taught at Seneca College.

Prerequisite(s): CHEM\*2400, BIOC\*2580 External Course Code(s): Seneca #PHA-333

#### XSEN\*3030 Pharmacology and Applied Toxicology W (3-3) [0.50]

This subject is an introduction to the general aspects of pharmacology and toxicology. The lecture topics will cover the pharmacological activity of drugs on the autonomic nervous system, central nervous system and the cardiovascular system. The laboratory practicals will focus on testing, drug screening, and clinical trial methodology. This course is taught at Seneca College.

#### Prerequisite(s): CHEM\*2400, BIOC\*2580

External Course Code(s): Seneca #PHT-533

### XSEN\*3040 Occupational Health and Chemistry W (2-3) [0.50]

A general coverage of general aspects of industrial hygiene. Specific topics include Canadian legislation with respect to Occupational Safety, modes of evaluation of chemical exposure, occupational toxicology, and instrumentation associated with the evaluation of the occupational environment. This course is taught at Seneca College.

Prerequisite(s): CHEM\*2700

External Course Code(s): Seneca #OCC-433

### XSEN\*3060 Pharmaceutical Analysis - Advanced W (2-3) [0.50]

This course reinforces the concept of how the pharmaceutical laboratory works by focusing on method validation requirements within the pharmaceutical industry. It introduces students to the regulatory (ICH, FDA) requirements and guidelines for systems validation, including TPP-acceptable methods and GMP regulations. Validation methods that are taught include Related Substances, Assay, Dissolution and Cleaning. Critical validation parameters (e.g., linearity, specificity, limit of quantitation, etc.) are focused on as well as validation protocols including establishing specifications and dealing with exceptions or out-of-specification (OOS) results. Process validation characteristics (i.e., Design Qualification (DQ), Installation Qualification (IQ), Operation Qualification (OQ), Performance Qualification(PQ) or System Suitability) are also emphasized as well as "Best Practices" such as Process Capabilities and Annual Product Review. This course is taught at Seneca College.

Prerequisite(s): XSEN\*3020

External Course Code(s): Seneca #PHA-533

#### XSEN\*3100 Analog and Digital Communications F,W (3-2) [0.50]

Students are provided with a good background in the fundamentals of analog communication techniques including modulation schemes (e.g. AM and FM) and associated circuitry. The course also introduces the concepts of digital communications, covering such topics as sampling, PCM, digital multiplexing, and digital modulation. This course is taught at Seneca College.

# Prerequisite(s): PHYS\*2040

External Course Code(s): Seneca #ADC-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 I/O, 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, (CIS\*2030 recommended)

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): CHEM\*2400, BIOC\*3570 External Course Code(s): Seneca #PHC-533

XSEN\*4020 Pharmaceutical Organic Chemistry F (1-3) [0.50]

The determination of the structure of organic compounds using spectroscopic methods such as N.M.R. and mass spectroscopy are discussed. Correlation of structure and reactivity (i.e. drug activity) of organic compounds is also explored. A multi-step synthesis of an anesthetic (lidocaine) and mass-spectrometric analysis of an unknown organic compound (or mixture) are examples of lab-projects. This course is taught at Seneca College.

Prerequisite(s): CHEM\*3750 External Course Code(s): Seneca #PAC-633

XSEN*4030 Pharmaceutical Product Formulations F (2-3) [0.50]	XSEN*4150 Microprocessors II F,W (3-3) [0.50]
This subject deals with the theoretical and practical aspects of pharmaceutical product	This is the second microcontroller course based on the ADAPT11 EVB Micro Controller
formulation with an emphasis on semi-solid and liquid formulations. The students prepare	System. The course emphasizes Assembly Language program structure, implementation
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	of subroutines, input/output concepts, interrupt utilization, and analog to digital conversion. Students will use an interface which involves switches, LEDs, four 7 segment displays,
terms. This course is taught at Seneca College.	light sensor, temperature sensor, speaker, infrared transmitter and receiver, and RAM.
Prerequisite(s): CHEM*3750	This course is taught at Seneca College.
External Course Code(s): Seneca #PPF-633	Prerequisite(s): XSEN*3120 External Course Code(s): Seneca #MCO-555
XSEN*4040 Pharmaceutical Manufacturing F (2-3) [0.50]	XSEN*4160 Computer Peripheral Systems F,W (2-2) [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	This course prepares students for the A+ certification examination, and for small business
dosage forms, regulations governing various dosage forms, good manufacture of important	PC network consulting. Topics include WIN 9x and 2K installation, LINUX installation,
as defined by regulatory bodies and an overview of the manufacturing plant during the	SCSI and USB, monitors, printers, notebooks, server set up in a multi-OS network, tape
various stages of production with emphasis on GMP. This course is taught at Seneca College.	backup systems, and digital cameras. This course is taught at Seneca College.
Prerequisite(s): BIOC*3570, CHEM*3750	Prerequisite(s): XSEN*4130 External Course Code(s): Seneca #PER-655
External Course Code(s): Seneca #PYM-633	XSHR*1710 SheridanEmergency Conditions U (0-0) [0.25]
XSEN*4050 Biopharmaceuticals F (3-0) [0.50]	Offered by Sheridan College.
This subject introduces the student to the rapidly developing field of biotechnology and	XSHR*1720 SheridanLower Quadrant Composite U (0-0) [0.25]
biopharmaceuticals. Techniques used in the development of biopharmaceuticals will be	Offered by Sheridan College.
emphasized as well as large-scale production of biologicals manufactured by genetic engineering processes. This course is taught at Seneca College.	XSHR*1730 SheridanField Practice I (100 hours) U (0-0) [0.50]
External Course Code(s): Seneca #BPH-633	Offered by Sheridan College.
XSEN*4100 Event Driven Programming and Visual Basic F,W (2-2) [0.50]	
This course covers the essential programming concepts supported by the Visual Basic	XSHR*1740 SheridanProtective Equipment U (0-0) [0.25]
programming language, including: object-oriented programming, database management,	Offered by Sheridan College.
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	XSHR*2710 SheridanField Practice II (200 hours) U (0-0) [0.50]
concepts of the event-driven and visual programming. Visual Basic Professional Edition	Offered by Sheridan College.
will be used as the integrated development environment. The interaction between Visual	XSHR*2720 SheridanUpper Quadrant Composite U (0-0) [0.25]
Basic and various DBMS software packages will be introduced. This course is taught at Seneca College.	Offered by Sheridan College.
Prerequisite(s): XSEN*3130	XSHR*2730 SheridanModalities U (0-0) [0.25]
External Course Code(s): Seneca #PRG-455	Offered by Sheridan College.
XSEN*4110 Data Acquisition and Control F,W (3-2) [0.50]	XSHR*2740 SheridanField Practice III (150 hours) U (0-0) [0.50]
This course covers the real-time acquisition and display of analog signals using a PC,	Offered by Sheridan College.
interface card, and A/D converter. 'C' will be used as the programming language. The course will cover the basic architecture of the PC as well as interfacing to the PC bus.	XSHR*2750 SheridanField Practice IV (250 hours) U (0-0) [1.00]
Graphical programming techniques will be developed for the purposes of displaying and	Offered by Sheridan College.
trending sensor data. The course will introduce the fundamental concepts of feedback	XSHR*2760 SheridanClinical Assessment Rehab. I U (0-0) [0.25]
control using a PC. The course also reviews analog electronics, the purpose being to develop skills in analog interface design. This course is taught at Seneca College.	Offered by Sheridan College.
Prerequisite(s): CIS*2500, MATH*2170	XSHR*2770 SheridanFunctional Anatomy of Spine/Head U (0-0) [0.25]
External Course Code(s): Seneca #CST-555	Offered by Sheridan College.
XSEN*4120 Data Communications I F,W (4-2) [0.50]	XSHR*2780 SheridanSports Injury Clinic I U (0-0) [0.25]
This course has been designed to provide an in-depth understanding of the underlying	Offered by Sheridan College.
principles of the rapidly expanding and changing discipline of Data Communications. The following topics in this subject are discussed: terminology, components, network	XSHR*2790 SheridanMechanics of Lower Quadrant U (0-0) [0.25]
design and configurations, transmission media including fibre optical design methods,	Offered by Sheridan College.
protocols, topologies, architectures, private and public network strategies and LAN	XSHR*2800 SheridanHuman Adaptation to Exercise U (0-0) [0.50]
vendors. This course is taught at Seneca College.	Offered by Sheridan College.
Prerequisite(s): XSEN*3100 External Course Code(s): Seneca #DCM-555	XSHR*2810 SheridanClinical Assessment Rehab. II U (0-0) [0.50]
XSEN*4130 Networking Essentials F,W (1-3) [0.50]	Offered by Sheridan College.
The major topics covered in this course include: networking overview and topologies,	XSHR*2820 SheridanMechanics of Upper Quadrant U (0-0) [0.50]
network cabling, network access methods and technologies, network architectures (OSI	Offered by Sheridan College.
model) and standards, network protocols, network connectivity, local area network implementation and configuration, Windows 95/98, Windows NT/2K, and Linux. This	XSHR*2830 SheridanClinical Assessment Rehab. III U (0-0) [0.50]
course is taught at Seneca College.	Offered by Sheridan College.
Prerequisite(s): CIS*2500, XSEN*3140,(CIS*2030 recommended)	XSHR*2840 SheridanClinical Administration U (0-0) [0.50]
External Course Code(s): Seneca #NET-555	Offered by Sheridan College.
XSEN*4140 Technical and Personal Communications F,W (4-0) [0.50]	XSHR*2850 SheridanManual Therapy U (0-0) [0.25]
This course combines reading, writing, and basic research skills and applied them to technical materials and situations. Today, technical firms insist on strong communication	Offered by Sheridan College.
skills in their employees, not just technical competence. Oral and written presentations	XSHR*2860 SheridanField Practice V (200 hours) U (0-0) [0.75]
of material, as well as project-related research, will be required elements of this course.	Offered by Sheridan College.
This course is taught at Seneca College.	XSHR*2870 SheridanField Practice VI U (0-0) [0.75]
External Course Code(s): Seneca #TPC-455	Offered by Sheridan College.

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XSHR*2880 SheridanClinical Placement U (0-0) [1.50]	
Offered by Sheridan College.	

XSHR\*2890 Sheridan--Sports Injury Clinic II U (0-0) [0.25]

Offered by Sheridan College.

	Art. Course Descriptions, Faining Relations and Haman Development
Family Relations and Human Development	FRHD*2300 Principles of Program Design for Youth W (3-0) [0.50]
Department of Family Relations and Applied Nutrition.	The course is designed to expose students to the issues and program development strategies
These courses support three majors offered by the Department of Family Relations and	that lay the foundation for quality experiences for youth. Students will examine the
Applied Nutrition: Child Studies, Family and Social Relations, and Gerontology.	developmental needs of adolescents, models for programming and the role of the youth worker in a variety of contexts.
FRHD*1010 Human Development W (3-0) [0.50]	Prerequisite(s): FRHD*2270
An introduction to the study of the development of the individual throughout the life	Co-requisite(s): FRHD*2280
cycle. Emphasis will be placed on the interrelationships between physiological,	<i>Restriction(s):</i> Registration in the Child Studies, or Child Studies Co-op, Child, Youth
sociological and psychological aspects of normal human development. (Also offered through distance education format.)	and Family or Child, Youth and Family Co-op majors.
	FRHD*2350 Principles of Program Design in the Human Services W (3-0) [0.50]
FRHD*1020 Couple and Family Relationships W (3-0) [0.50]	This course will examine the elements involved in planning and implementing effective
A survey of family dynamics throughout the life course, emphasizing themes of power, intimacy and family diversity. Topics may include; gender socialization, sexuality, mate	prevention, education, and support programs for various populations in community settings. Programs include health promotion, sexual health, and support programs for
selection, communication, abuse, couple interaction, parent-child relations, divorce,	new parents, new Canadians, seniors, caregivers, and individuals with disabilities. Major
remarriage. (Also offered through distance education format.)	topics covered in this course include: the roles of organizations and human service
Equate(s): FRHD*2010	professionals; empowerment within individuals, families and communities; working with
FRHD*1100 Life: Health and Well-Being F (3-0) [0.50]	diverse populations; needs assessments; program planning and service delivery; and program evaluation. Case studies of innovative programs are highlighted. (First offering
This course integrates the theory, application and research of various aspects of	- Winter 2009)
health-related topics across the lifespan, emphasizing relevance to the lives of young	Prerequisite(s): FRHD*1100
adults.	Restriction(s): Registration in the Adult Development, Families and Well-Being Major
FRHD*2040 Principles of Program Design for Children W (2-2) [0.50]	FRHD*3040 Parenting: Research and Applications F (3-0) [0.50]
This course will examine the elements involved in planning and implementing quality	A study of research concerning parent-child relationships, primarily in North American
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	society.
environment, and instructional strategies. The course will involve a workshop component.	<i>Prerequisite(s):</i> FRHD*1020, (1 of FRHD*1100, FRHD*2270, PSYC*2450)
Prerequisite(s): FRHD*2260, FRHD*2270	FRHD*3060 Principles of Social Gerontology F (3-0) [0.50]
Equate(s): CSTU*2040	A study of social and health aspects of individual and population aging, including theories
<i>Restriction(s):</i> Registration in B.A.Sc. Program (Child Studies or Child, Youth &	and implications for understanding and working with the elderly.
Family majors).	<i>Prerequisite(s):</i> 10.00 credits including 1 of FRHD*1020, SOAN*3100, SOC*3100
FRHD*2060 Adult Development and Aging W (3-0) [0.50]	FRHD*3070 Research Methods: Family Studies F (2-2) [0.50]
An overview of major theoretical approaches, research issues and methodologies, and significant research findings which relate to adult development and aging.	A critical examination of research methods in family studies.
	Prerequisite(s): 10.00 credits
<i>Prerequisite(s):</i> 1 of FRHD*1010, PSYC*1200, SOC*1100 <i>Equate(s):</i> PSYC*2060	Restriction(s): Registration in B.A.Sc. Program.
FRHD*2100 Development of Human Sexuality F (3-0) [0.50]	FRHD*3090 Child and Family Poverty F (3-0) [0.50]
A social scientific analysis of human sexuality. Emphasis will be placed on the	An examination of the research dealing with children for whom environmental conditions constitute a serious impediment to later development; a consideration of appropriate
development of sexuality within an interpersonal context. (Also offered through distance	policies and practices.
education format.)	Prerequisite(s): FRHD*2110, NUTR*1010
Prerequisite(s): 5.00 credits	Equate(s): CSTU*3100
FRHD*2110 Exceptional Children and Youth W (3-0) [0.50]	FRHD*3120 Families in Canadian Context W (3-0) [0.50]
An overview of childhood exceptionalities including intellectual differences,	Canadian families are studied from a structural perspective and are placed in social and
communication disorders, sensory impairments, developmental and behaviour disorders, and health problems. Issues faced by the exceptional child as well as the parents 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
siblings are discussed. (Also offered through distance education format.)	policies affecting families.
Prerequisite(s): FRHD*1020, (FRHD*2270 or PSYC*2450)	Prerequisite(s): FRHD*1020
Equate(s): CSTU*2110	FRHD*3150 Strategies for Behaviour Change F,W (3-0) [0.50]
FRHD*2260 Infant Development W (3-0) [0.50]	This course will review the nature and use of behaviour change strategies commonly
An examination of developmental principles and milestones characterizing infant	used in interventions with children, youth, and their families.
development from conception to 24 months. Emphasis will be placed on understanding	Prerequisite(s): FRHD*2110
the nature of the reciprocal family-infant interactions during this period, and on the societal context influencing those interactions. (Also offered through distance education	FRHD*3180 Observation and Assessment F,W (3-0) [0.50]
format.)	Direct observation as a strategy for collecting information on children's behaviour in
<i>Prerequisite(s):</i> PSYC*1200, (SOC*1100 or ANTH*1150)	applied and research settings. Emphasis on theory, recording and interpreting observational
Equate(s): CSTU*2260	data and communicating findings in written reports.
FRHD*2270 Development in Early and Middle Childhood F (3-0) [0.50]	Prerequisite(s): (FRHD*2040 or FRHD*2300), FRHD*2110
Examination of development in the early and middle childhood years, with emphasis on	<i>Equate(s):</i> FRHD*4300 <i>Restriction(s):</i> Registration in semester 5 or above in the Child Studies or Child Studies
family and societal contexts.	Co-op, Child, Youth & Family or Child, Youth & Family Co-op majors.
<i>Prerequisite(s):</i> FRHD*1010 or (PSYC*1200 and ANTH*1150) or (PSYC*1200 and COC*1100)	FRHD*3190 Administration of Programs for Children and Youth W (3-0) [0.50]
SOC*1100) Equate(s): CSTU*2270	A study of the roles and responsibilities of administrators in programs for children and
	youth with emphasis on the development of appropriate policies and procedures
FRHD*2280 Adolescent Development W (3-0) [0.50]	management of human and financial resources; and internal and external communication
FRHD*2280 Adolescent Development W (3-0) [0.50]           An examination of psychosocial development in adolescence, emphasizing physiological,	management of human and financial resources; and internal and external communication within the context of multidisciplinary settings. Attention will be given to quality
FRHD*2280 Adolescent Development W (3-0) [0.50]           An examination of psychosocial development in adolescence, emphasizing physiological, social and emotional changes. (Also offered through distance education format.)	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
FRHD*2280 Adolescent Development W (3-0) [0.50]           An examination of psychosocial development in adolescence, emphasizing physiological,	youth 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.) <i>Prerequisite(s):</i> 10.00 credits including one of FRHD*2260, FRHD*2270, PSYC*2450

FRHD*3200 Practicum - Child F,W (3-8) [1.00]	FRHD*4080 Topics in Family Relations and Human Development U (3-0) [0.50]
Seminar and supervised experience with children. The practicum will be 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.	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.
<i>Prerequisite(s):</i> FRHD*1020, (FRHD*2040 or FRHD*2300), NUTR*1010	FRHD*4090 Topics in Family Relations and Human Development U (3-0) [0.50]
Equate(s):       CSTU*3170, FRHD*3170         Restriction(s):       Registration in the Child Studies, or Child Studies Co-op, Child, Youth and Family or Child, Youth and Family co-op majors. Instructor Consent.	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*3250 Practicum in Youth F,W (3-8) [1.00]	FRHD*4100 Dynamics of Group and Family Functioning W (2-2) [0.50]
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	An exploration of group processes through participation and laboratory groups. Group theory and current techniques used in group and family counselling will also be reviewed in lectures. Prerequisite(s): FRHD*3040 or FRHD*3400 FRHD*4160 Family Relations in Gerontology F (3-0) [0.50]
<ul> <li>with the instructor during course selection.</li> <li>Prerequisite(s): FRHD*1020, FRHD*2300, NUTR*1010</li> <li>Registration in the Child, Youth and Family or Child, Youth and Family Co-op majors. Instructor consent required.</li> </ul>	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. <i>Prerequisite(s):</i> FRHD*3060
FRHD*3290 Practicum I: Adult Development and Families W (3-8) [1.00]	FRHD*4170 Practicum - Child, Youth and Family F,W (3-16) [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. (First offering - Winter 2010)	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. <i>Prerequisite(s):</i> 1 of FRHD*3170, FRHD*3200, FRHD*3250 <i>Restriction(s):</i> Instructor consent required.
Prerequisite(s): FRHD*3400	FRHD*4180 Assessment and Intervention F (2-2) [0.50]
<i>Restriction(s):</i> Registration in B.A.Sc. program majoring in Adult Development, Families and Well-Being.	Principles and theories of assessment and evaluation as related to the child, the family, and to child oriented intervention, education and social service programs.
FRHD*3400 Communication and Counselling Skills S,F,W (3-0) [0.50]	Prerequisite(s): FRHD*2110, FRHD*3070, FRHD*3180
Examination and analysis of the theories and methods of communication as applied within the processes of family counseling and consultation.	<i>Restriction(s):</i> Registration in semester 7 or above in the Child Studies or Child Studies Co-op, Child, Youth & Family or Child, Youth & Family Co-op majors.
Prerequisite(s):       10.00 credits including (FRHD*1020 or FRHD*1100)         Restriction(s):       This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information. Instructor consent required.	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
FRHD*4020 Family Theory F (3-0) [0.50]	then examine each test for its psychometric properties and appropriate use. An understanding of the ethical principles governing assessment will be gained.
An analysis of theoretical approaches and concepts in the study of the family. <i>Prerequisite(s):</i> 12.50 credits including FRHD*1020	Prerequisite(s): FRHD*2060 Restriction(s): Semester 7 and above.
FRHD*4061 Family and Community: Field Placement F (2-8) [1.00]	FRHD*4200 Issues in Human Sexuality W (3-0) [0.50]
First part of the two-semester course FRHD*4061/2. Refer to FRHD*4061/2 for course description. (Last offering - Fall 2008) <i>Prerequisite(s):</i> FRHD*3400	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.
FRHD*4061/2 Family and Community: Field Placement F-W [2.00]	<i>Prerequisite(s):</i> FRHD*1020, FRHD*2100 and 1.00 credit at the 3000 level in Family and Social Relations, Psychology or Sociology
Seminar and supervised field placement in health and social service agencies. The practicum and seminar will further develop and expand students' helping roles in agencies and the integration and application of theoretical knowledge from previous course work with practice. Students wishing to enrol in this course must consult with the instructor during the course selection period. This is a two-semester course offered over consecutive semesters. When you select it you must select FRHD*4061 in the Fall semester and FRHD*4062 in the Winter semester. A grade will not be assigned to FRHD*4061 until FRHD*4062 is completed. (Last offering - Fall 2008, Winter 2009) <i>Prerequisite(s):</i> FRHD*3400 <i>Restriction(s):</i> Registration in the Family and Social Relations or Gerontology majors.	FRHD*4210 Senior Seminar in Early Education and Care F (3-0) [0.50]         The 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*3170 or FRHD*3200         Equate(s):       CSTU*4210         Restriction(s):       Registration in semester 7 or above in the Child Studies or Child Studies Co-op, Child, Youth & Family or Child, Youth & Family Co-op majors.
Instructor consent required.	
FRHD*4062 Family and Community: Field Placement W (2-8) [1.00] Second part of the two-semester course FRHD*4061/2. Refer to FRHD*4061/2 for course description. (Last offering - Winter 2009)	
Prerequisite(s): FRHD*4061	
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\*4250 Aging and Health F (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

## FRHD\*4290 Practicum II: Adult Development and Families F (3-16) [1.00]

This course enables students to extend their knowledge and professional skills in a second supervised placement in a health or social service agency. The practicum and seminar provides students with additional opportunities to integrate theoretical knowledge with practice experiences. Students are expected to assume additional responsibilities related to program design and implementation and in their supervised work with individuals and/or groups. Students wishing to enrol in this course must consult with the instructor during the course selection period. (First offering - Fall 2011)

Prerequisite(s): FRHD\*3290

Restriction(s): Registration in the B.A.Sc. program majoring in Adult Development, Family and Well Being. Instructor consent required.

# FRHD\*4310 Professional Issues F (3-0) [0.50]

This course examines ethical and professional issues in working with children, youth, adults of all ages, and their families. A variety of institutional settings are considered (e.g., school systems, treatment agencies, youth residential programs, senior care facilities). The complexities of professional practice with diverse populations are explored in depth. Legal aspects relevant to work in this area are also addressed.

Prerequisite(s): FRHD\*3400

# FRHD\*4320 Social Policies for Children, Youth and Families W (3-0) [0.50]

This course focuses on current social policies, programs, and services that affect children's development and family well-being. Issues include policies that affect income security, parental effectiveness, social service provision, and community resources.

Prerequisite(s): FRHD\*3040

# FRHD\*4400 Youth, Risk and Resilience W (3-0) [0.50]

This course examines biological, and social-contextual aspects of developmental issues evident in childhood and adolescence. The theoretical perspective of developmental psychpathology will be used to examine literatures relating to risk, resilience, developmental trajectories, classification, assessment, and intervention. Students will have a chance to critically examine many mental health issues commonly found in childhood and adolescence.

Prerequisite(s):15 credits, FRHD\*2110, FRHD\*2280Restriction(s):PSYC\*3460

# FRHD\*4810 Thesis I U (3-0) [0.50]

Planning, developing and writing a research proposal under individual faculty supervision. Topic to be decided by the student in consultation with the supervisory faculty member before she/he may course select or register for the course.

 Prerequisite(s):
 FRHD\*3070. Instructor consent required.

 Equate(s):
 CSTU\*4810

# FRHD\*4910 Thesis II U (6-0) [1.00]

The student will conduct and write an undergraduate thesis under the direction of a faculty member. *Prerequisite(s):* FRHD\*4810 *Equate(s):* FRHD\*4911/2

Food Science	FOOD*3090 Food Science and Human Nutrition F (3-3) [0.50]
Department of Food Science	This course will introduce students in the B.Sc.(Agr.) program to the chemistry and
<b>FOOD*2010 Principles of Food Science S,W (3-0) [0.50]</b> Principles involved in the processing, handling and storage of foods. Relationship of science and technology to food processing. (Offered through Distance Education only.)	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.
Restriction(s):       AGR*3330, FOOD*2150, FOOD*3070, NUTR*2150         FOOD*2100 Communication in Food Science I W (3-0) [0.50]         Students will acquire basic skills in technical and business communication and be prepared	Prerequisite(s):       AGR*1250, BIOL*1040, CHEM*1050         Restriction(s):       AGR*3330, FOOD*2010, FOOD*2150, FOOD*3070, NUTR*2150.         Registration in the B.Sc.(Agr.) program.
to complete a variety of communication assignments in subsequent semesters. Students will learn and apply the principles of effective written and oral communication.	FOOD*3160 Food Processing I F (3-3) [0.75]
Communication achievements made during the undergraduate program will be presented in a communication portfolio in a subsequent course, FOOD*4100. <i>Restriction(s):</i> Enrolment in the Food Science or Food Science Co-op Majors of the B.Sc. Program.	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,
<b>FOOD*2150 Introduction to Nutritional and Food Science F</b> (3-0) [0.50] This interdisciplinary course provides an introduction to the Food and Nutritional Sciences	irradiation) unit operations. <i>Prerequisite(s):</i> (FOOD*2620, MICR*2030) or ENGG*2660
from both historical and modern perspectives. Major themes are the nutritional and	FOOD*3170 Food Processing II W (3-3) [0.50]
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.) <i>Prerequisite(s):</i> BIOL*1040, (CHEM*1040 or CHEM*1300) <i>Equate(s):</i> NUTR*2150 <i>Restriction(s):</i> AGR*3330, FOOD*2010, FOOD*3070. Not available to students registered in Applied Human Nutrition major.	This course looks at various low temperature food processing unit operations (e.g., refrigerated storage, freezers, freeze driers), the design and operation of ancillary food plant equipment (e.g., refrigeration, boiler, pumping, control, sanitation, water, and wastewater treatment systems) and integration of the various unit operations into a functioning food process. <i>Prerequisite(s):</i> FOOD*3160
FOOD*2400 Introduction to Food Chemistry S (3-0) [0.50]	FOOD*3230 Food Microbiology F (3-3) [0.75]
An introduction to the chemistry and biochemistry of the major components of foods: lipids, proteins, carbohydrates and water/ice. 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.)	Important groups of microorganisms associated with food spoilage, food fermentations, food infections and intoxications. Intrinsic and extrinsic factors and their relationship to microbial growth. Control of microorganisms by food processing. <i>Prerequisite(s):</i> MICR*1020 or MICR*2030
Prerequisite(s): CHEM*1040	FOOD*3260 Industrial Microbiology F (3-3) [0.50]
Restriction(s): FOOD*3010, FOOD*3100	The course will present microbiological and technological principles of the industrial application of microorganisms followed by specific examples. These will include different
FOOD*2410 Introduction to Food Processing W (3-0) [0.50] An introduction to 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. This course may not be taken for credit by students in the Food Science Major. (Offered through Distance Education only.)	<ul> <li>liquid aerobic and anaerobic fermentations, such as the production of organic/amino acids, and ethanol, but excluding the dairy sector. A special focus will be given to winemaking, brewing and antibiotic production. The laboratory component of the course includes several field trips and the production of wine and antibiotics.</li> <li>Prerequisite(s): MICR*1020 or MICR*2030</li> <li>FOOD*3430 Introduction to Food Analysis F (3-0) [0.50]</li> <li>An introduction to quantitative analysis of foods by chemical, physical and instrumental</li> </ul>
Prerequisite(s):         CHEM*1040, (BIOL*1040 or MICR*1020)           Restriction(s):         FOOD*3160, FOOD*3170	means. Determination of major and minor constituents of foods. (Offered through Distance Education only.)
FOOD*2420 Introduction to Food Microbiology F (3-0) [0.50] An introduction to the major groups of microorganisms important in foods including sources of contamination during production, processing and storage of foods, microbial	Prerequisite(s): FOOD*2400 Restriction(s): FOOD*4120 FOOD*3700 Sensory Evaluation of Foods F (2-3) [0.50]
spoilage of food, food-borne illness, and food fermentations. Evaluation of food processing conditions used to control the presence and/or growth of microorganisms in foods. This course may not be taken for credit by students in the Food Science Major. (Offered through Distance Education only.)	Principles of sensory evaluation of foods and a study of the techniques employed. Prerequisite(s): (1 of FOOD*2150, HAFA*2700, HTM*2700), (1 of STAT*2040, STAT*2060, STAT*2080)
Prerequisite(s): BIOL*1040 or MICR*1020 Restriction(s): FOOD*3230	FOOD*4010 Food Plant Sanitation and Quality Control W (3-0) [0.50]
FOOD*2620 Food Engineering Principles W (3-2) [0.50]	Participants will learn and apply principles of hygiene, cleaning chemistry and mechanisms, and will develop and evaluate sanitation programs for specific food
Introduction to engineering principles and operations in food processing including heat transfer, fluid flow, material and energy balances, instrumentation and process control concepts. <i>Prerequisite(s):</i> (BIOC*2580 or CHEM*2880), (MATH*1080 or MATH*1200)	processes. Graduates of this course will be able to implement sampling and statistical quality control plans and quality audits. Food Safety programs including both GMP (good manufacturing practices) and HACCP (hazard analysis and critical control point) will be developed for specific cases. A case study approach will be used. Quality management aspects of quality assurance are not included in this course. (Offered through Distance
FOOD*3010 Food Chemistry F (3-2) [0.50]	Education only.)
A lecture course covering 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 food materials such as lipids, proteins, carbohydrates and water.	Prerequisite(s):         (FOOD*2010 or FOOD*2150), (FOOD*2410 or FOOD*3160), (FOOD*2420 or FOOD*3230)           FOOD*4620 F         FOOD*200
Prerequisite(s): BIOC*2580	FOOD*4070 Food Packaging F (3-0) [0.50]
<b>FOOD*3020 Food Chemistry Laboratory W (0-6) [0.50]</b> An involved laboratory course on various aspects of food chemistry. Emphasis will be placed on the development of strong analytical skills. Laboratory exercises are based on topics covered in FOOD*3010.	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. (Offered through Distance Education only.)
Prerequisite(s): FOOD*3010	<i>Prerequisite(s):</i> 8.00 credits in science or engineering or (FOOD*2010, FOOD*2410, FOOD*2420)

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#### 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-opertively taught by the Department of Human Health and Nutritional Sciences and the Department of Food Science. (Also listed as NUTR\*4090.)

*Prerequisite(s):* NUTR\*3190 or NUTR\*3210 *Equate(s):* NUTR\*4090

#### FOOD\*4100 Communication in Food Science II W (2-0) [0.25]

Each student will present a communication portfolio based on their proposal in FOOD\*2100. Additional communication assignments and work shops will build skills in discussion leading, meeting, management, crisis management and both peer and self evaluation.

*Prerequisite(s):* FOOD\*2100, 2.50 credits at the 3000 level in Food Science

## FOOD\*4110 Meat and Poultry Processing W (2-3) [0.50]

The course focuses on the principles and techniques employed by the meat industry (the largest food processing segment in Canada). Topics 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. Eggs and egg processing are also covered. Emphasis is put on learning how various food science principles (e.g. preservation, HACCP, emulsification) are used to optimize meat products' quality and safety. (Offered in odd-numbered years.)

Prerequisite(s): 1 of ANSC\*2340, FOOD\*3070, FOOD\*3160

#### FOOD\*4120 Food Analysis F (3-4) [0.75]

Quantitative analysis of foods by chemical and physical methods. Determination of major and minor constituents of foods.

Prerequisite(s): 1 of CHEM\*2400, CHEM\*2480, FOOD\*3100, FOOD\*3010, which may be taken as co-requisite

#### FOOD\*4140 Communication in Food Science III S,F,W (0-2) [0.25]

This course gives the student the opportunity to integrate both communication skills and technical knowledge in Food Science acquired in earlier courses through participation in an independent experiential learning project. The topic of the project may be in any area of Food Science, but an emphasis on communication to a non-scientific audience is required. The project may be conducted in teams of up to four students. 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 course co-ordinator in a prior course selection period.

*Prerequisite(s):* FOOD\*2100, 2.50 credits at the 3000 level in Food Science *Restriction(s):* Instructor consent required.

#### 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 I S,F,W (0-2) [0.25]

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

#### FOOD\*4240 Research in Food Science II S,F,W (0-2) [0.25]

Independent laboratory research of a selected topic in Food Science, under the supervision of an individual faculty. The laboratory research conducted in FOOD\*4230 will be continued and expanded. Students are expected to demonstrate increasing independence in designing, conduction and evaluating 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\*4230

FOOD\*4400 Dairy Processing W (3-3) [0.50]

Production, processing, chemistry, microbiology and marketing of fluid milk, frozen dairy products, cheese, fermented dairy foods and butter. Public health aspects of pasteurization, composition and formulation and discussion of the various unit operations involved in processing dairy products.

Prerequisite(s): BIOC\*2580, FOOD\*2150, MICR\*2030

### FOOD\*4520 Cereal Technology W (3-3) [0.50]

The technology and chemistry of the principal cereals; kernel structure and its chemistry with respect to the technological characteristics and nutritive value. Processing of wheat, corn, sorghum, rice, oats and barley; utilization of products and by-products. Bread-making process, dough rheology and technology; breakfast cereals and protein-enriched cereal products. (Offered in even-numbered years.)

*Prerequisite(s):* BIOC\*2580

FOOD\*4700 Food Product Development W (3-3) [0.50]

Research, management processes and technological developments relevant to effective food product development are examined. Students work in teams to plan and execute a major food development project and communicate its results.

*Prerequisite(s):* FOOD\*3010 or FOOD\*3100

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French Studies	FREN*2060 Quebec: Literature and Society F,W (3-1) [0.50]
School of Languages and Literatures	An historical introduction to Quebec life and thought from New France to the present as seen through literature and art. Lectures and small seminars are integrated into a
The School reserves the right to determine the appropriate level to be taken by students	multi-media presentation including videotapes, slides and audio tapes.
enrolling in language courses. With the exception of FREN*1000, literary texts are, at	Prerequisite(s): FREN*1200 or FREN*2030
all levels, studied in French. Students registering in these courses will be expected to have the appropriate language proficiency.	FREN*2500 French Translation I S,W (3-0) [0.50]
Francophone students and Graduates of Highschool French Immersion will not normally	An introduction to the art and techniques of French-English translation. (Also offered
be admitted into FREN*1200 and FREN*2030. It is recommended they start their program	through distance education format.)
with FREN*2020, FREN*2060, FREN*2500, or FREN*2520 with the approval of the	Prerequisite(s): FREN*2030
Faculty Advisor.	FREN*2520 French Composition I F (3-0) [0.50]
FREN*1000 Understanding the French Speaking World F (3-0) [0.50]	Essay writing and textual analysis.
A course taught in English which introduces students to French culture as it manifests itself in France, Quebec, the rest of North America, Africa, and the West Indies. Historical,	Prerequisite(s): FREN*2030
linguistic and socio-political issues will be examined within the broader context of culture.	FREN*2540 Spoken French: Theory and Practice W (3-0) [0.50]
FREN*1090 Basic French: Reading S,F (3-0) [0.50]	This course focuses on the differences between written and spoken French and is designed
This is a basic course in French grammar and reading for students who have up to Ontario	to help students function efficiently in an oral French context (comprehension and
Grade 9 French (or equivalent) but not above. FREN*1090 cannot be counted toward a	expression).
specialization in French. (Offered through Distance Education only.)	Prerequisite(s): FREN*2030
<i>Restriction(s):</i> Students with native or near-native ability in French, including	<i>Restriction(s):</i> Students with native or near-native ability in French, including
Francophones and French immersion students will not be admitted to	Francophones and French immersion students will not be admitted to
this course. Instructor consent required to verify student's level.	this course. Instructor consent required to verify student's level.
FREN*1100 Basic French: Listening F,W (3-0) [0.50]	FREN*3000 Romanticism and Realism in France F (3-0) [0.50]
This basic course in French grammar will emphasize listening skills for students who	A seminar on the 19th-century novel emphasizing themes and ideas which have contributed to contemporary literature and thought.
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.)	Prerequisite(s): FREN*2020, FREN*2030
<i>Restriction(s):</i> Students with native or near-native ability in French, including	FREN*3010 Twentieth-Century French Novel W (3-0) [0.50]
Francophones and French immersion students will not be admitted to	
this course. Instructor consent required to verify student's level.	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
FREN*1120 Basic French: Writing S,W (3-0) [0.50]	questioning of modes of representation, signs and society. (Offered in even-numbered
This basic course in French grammar will emphasize writing skills for students who have	years.)
up to Grade 11 French (or equivalent) but not above. FREN*1120 cannot be counted	Prerequisite(s): FREN*2020, FREN*2030
toward a specialization in French. (Offered through Distance Education only.)	FREN*3020 Twentieth-Century French Theatre F (3-0) [0.50]
<i>Restriction(s):</i> Students with native or near-native ability in French, including Francophones and French immersion students will not be admitted to	Twentieth-century drama: Sartre, Beckett, Ionesco and more recent dramatists. (Offered
this course. Instructor consent required to verify student's level.	in odd-numbered years.)
FREN*1150 Elementary French F (3-0) [0.50]	Prerequisite(s): FREN*2020, FREN*2030
This is a review course in French grammar, oral and written skills for students who have	FREN*3070 Enlightenment and Crisis F (3-0) [0.50]
Ontario Grade 11 French or equivalent but not above. FREN*1150 cannot be counted	Prose literature in the 18th century; the questioning of traditional values. The road to
toward a specialization in French.	revolution.
Equate(s): FREN*1110	Prerequisite(s): FREN*2020, FREN*2030
<i>Restriction(s):</i> Students with native or near-native ability in French, including Francophones and French immersion students will not be admitted to	FREN*3150 Children's Literature in French F (3-0) [0.50]
this course. Instructor consent required to verify student's level.	A study of children's literature in the francophone world from the 17th century to the present.
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	Prerequisite(s): FREN*2020, FREN*2030
in core French. Students will practise written and oral French.	FREN*3200 Quebec Novel F (3-0) [0.50]
Prerequisite(s): 1 of FREN*1150, Grade 12U French or permission of the School	A survey of representative Quebec novels from World War II to the Quiet Revolution. A seminar and lecture course.
<i>Restriction(s):</i> Students with native or near-native ability in French, including	Prerequisite(s): FREN*2030, FREN*2060
Francophones and French immersion students will not be admitted to this course. Instructor consent required to verify student's level.	
FREN*2020 France: Literature and Society F,W (3-1) [0.50]	FREN*3210 Quebec Theatre W (3-0) [0.50]
An historical introduction to French life and thought as seen through literature and art.	A survey of recent trends in Quebec drama and readings from representative works by Quebecois playwrights. A seminar and lecture course. (Offered in odd-numbered years.)
Lectures and small seminars are integrated into a multi-media presentation including	Prerequisite(s): FREN*2030, FREN*2060
videotapes, slides and audio tapes.	FREN*3220 Recent Quebec Writing W (3-0) [0.50]
Prerequisite(s): FREN*1200 or FREN*2030	An analysis of representative contemporary Quebec novels, short stories and poems from
FREN*2030 French Language II F,W (3-1) [0.50]	aesthetic, thematic and ideological points of view. (Offered in even-numbered years.)
This is a continuation of French Language I with further practice in written and oral	Prerequisite(s): FREN*2030, FREN*2060
French, grammar, vocabulary acquisition, translation, laboratory exercises and discussion	FREN*3230 The Structure of French F (3-0) [0.50]
groups.	Elements of the sound system, grammar and vocabulary of contemporary French.
Prerequisite(s): FREN*1200 or equivalent	Prerequisite(s): FREN*2030
<i>Restriction(s):</i> Students with native or near-native ability in French, including	recognishe(b). Then 2000
	EDEN*3240 French Classicism W (3.0) [0.50]
Francophones and French immersion students will not be admitted to this course. Instructor consent required to verify student's level.	FREN*3240 French Classicism W (3-0) [0.50]         Human destiny in 17th-century drama.

Prerequisite(s): FREN\*2020, FREN\*2030

FREN*3290 Post-colonial Francophone Fiction W (3-0) [0.50]	FREN*3680 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
An introduction to 20th century Francophone writers from Maghreb, Black Africa and	Thematic courses relating to the literature, arts, and society of metropolitan France and
the Caribbean, through the study of selected works. (Offered in even-numbered years.)	of the Francophone world. Options may include other languages, literatures, and other
Prerequisite(s): FREN*2020, FREN*2030	disciplines in the arts and social sciences. For Nice students only.
FREN*3500 French Translation II F (3-0) [0.50]	<i>Prerequisite(s):</i> 1 of FREN*2020, FREN*2030, FREN*2060 <i>Restriction(s):</i> Admission to Nice Program.
Contrastive grammar (French and English). Analysis of various styles and their application	FREN*3690 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
to written translation. Small discussion groups.	Thematic courses relating to the literature, arts, and society of metropolitan France and
Prerequisite(s): FREN*2030, FREN*2500	of the Francophone world. Options may include other languages, literatures, and other
FREN*3520 French Composition II W (3-0) [0.50]	disciplines in the arts and social sciences. For Nice students only.
A continuation of FREN*2520 with special emphasis on stylistics.	Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Prerequisite(s): FREN*2030, FREN*2520	Restriction(s): Admission to Nice Program.
FREN*3530 Business French F (3-0) [0.50]	FREN*4050 Early Modern French Culture W (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.	A study of the literature and culture of Medieval and Renaissance France (1200-1600), from the chivalric and religious writings to humanist thought and early French feminism. (Offered in odd-numbered years.)
Prerequisite(s): FREN*2030	<i>Prerequisite(s):</i> FREN*2020, FREN*2030, FREN*3520
FREN*3560 Contemporary French Women's Writings W (3-0) [0.50]	FREN*4300 Symbolist and Surrealist Poetry W (3-0) [0.50]
A study of the main trends in women's writings and feminist criticism in contemporary	The French Symbolists of the 19th century. The 20th century Surrealist poets' vision of
France. (Offered in odd-numbered years.)	the world. (Offered in even-numbered years.)
Prerequisite(s): FREN*2020, FREN*2030	Prerequisite(s): FREN*2020, FREN*2030, FREN*3520
FREN*3610 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]	FREN*4500 The French Language in Canada 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	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.)
disciplines in the arts and social sciences. For Nice students only.	Prerequisite(s): FREN*2030, FREN*3230
<i>Prerequisite(s):</i> 1 of FREN*2020, FREN*2030, FREN*2060 <i>Restriction(s):</i> Admission to Nice Program.	FREN*4520 French Translation III F (3-0) [0.50]
FREN*3620 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]	A contrastive analysis of French and English stylistic resources, with application to English-French translation. (Offered in odd-numbered years.)
Thematic courses relating to the literature, arts, and society of metropolitan France and	Prerequisite(s): FREN*2030, FREN*2500, FREN*3500
of the Francophone world. Options may include other languages, literatures, and other	FREN*4600 Honours Seminar in French and Quebecois Studies F (3-0) [0.50]
disciplines in the arts and social sciences. For Nice students only.	Seminar on literary genres, movements and themes, or on the French language. (Offered
<i>Prerequisite(s):</i> 1 of FREN*2020, FREN*2030, FREN*2060 <i>Restriction(s):</i> Admission to Nice Program.	in even-numbered years.)
FREN*3630 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]	<i>Prerequisite(s):</i> FREN*2020, FREN*2030, FREN*2060, FREN*3520
Thematic courses relating to the literature, arts, and society of metropolitan France and	FREN*4610 Honours Seminar in French and Quebecois Studies F (3-0) [0.50]
of the Francophone world. Options may include other languages, literatures, and other	Seminar on literary genres, movements and themes. (Offered in even-numbered years.)
disciplines in the arts and social sciences. For Nice students only.	Prerequisite(s): FREN*2020, FREN*2030, FREN*2060, FREN*3520
Prerequisite(s):       1 of FREN*2020, FREN*2030, FREN*2060         Restriction(s):       Admission to Nice Program.	FREN*4740 Research Paper in French Studies I S,F,W (3-0) [0.50]
FREN*3640 Studies in French Literature and Culture in Nice 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 on methods of research and techniques of
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	writing. This course is intended to serve as an introduction to future research at the M.A. and Ph.D. levels.
disciplines in the arts and social sciences. For Nice students only.	<i>Prerequisite(s):</i> FREN*2020, FREN*2030, FREN*2060, FREN*3520. 70% average
Prerequisite(s):1 of FREN*2020, FREN*2030, FREN*2060Restriction(s):Admission to Nice Program.	in all French Studies course attempts is required, although at least 75% is recommended.
FREN*3650 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]	Restriction(s): Instructor consent required.
Thematic courses relating to the literature, arts, and society of metropolitan France and	FREN*4750 Creative Writing in French S,F,W (3-0) [0.50]
of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.	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):1 of FREN*2020, FREN*2030, FREN*2060Restriction(s):Admission to Nice Program.	Prerequisite(s): (FREN*2020 or FREN*2060), FREN*2030, FREN*3520, FREN*4740. 70% average in all French Studies course attempts is required, although
FREN*3660 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]	at least 75% is recommended.
Thematic courses relating to the literature, arts, and society of metropolitan France and	Restriction(s): Instructor consent required.
of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.	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
	A research paper in French on an approved topic in French interature of language will be required. Individual attention will be given on methods of research and techniques of
Prerequisite(s):       1 of FREN*2020, FREN*2030, FREN*2060         Restriction(s):       Admission to Nice Program.	writing. This course is intended to serve as an introduction to future research at the M.A. and Ph.D. levels.
FREN*3670 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]	<i>Prerequisite(s):</i> FREN*2020, FREN*2030, FREN*2060, FREN*3520, FREN*4740.
Thematic courses relating to the literature, arts, and society of metropolitan France and	70% average in all French Studies course attempts is required, although
of the Francophone world. Options may include other languages, literatures, and other disciplings in the orts and excipl sciences. For Nice students only	at least 75% is recommended.
disciplines in the arts and social sciences. For Nice students only.	Restriction(s): Instructor consent required.
Prerequisite(s):       1 of FREN*2020, FREN*2030, FREN*2060         Restriction(s):       Admission to Nice Program.	

# FREN\*4900 Applied Linguistics: French Studies W (3-0) [0.50]

This course is 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 check with the department.

#### 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 climate 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\*2230 Economic Geography F (3-0) [0.50]

An introduction to the spatial distribution of economic activity. The course examines patterns, processes and problems in extractive activities, manufacturing, marketing and the service sector, including the transportation of commodities and people. The principles of economic location are applied to regional economic analysis and development. *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 Aerial-photo Interpretation F (2-3) [0.50]

An introduction to the principles and techniques of air photo interpretation and elementary photogrammetry. 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 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\*2040)
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\*2040), (1 of BIOL\*2060, BOT\*2050, ENVB\*2030, GEOG\*2110)

## GEOG\*3210 Management of the Biophysical Environment F (3-0) [0.50]

An examination of resource management, focusing on public and private decision-making processes. Consideration of techniques for evaluating resources, including 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\*2010 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 (3-3) [0.50]

This course focuses on the use of raster and vector-based geographic information systems to analyze spatial data. Topics include map digitizing, data query and overlay, spatial interpolation, multi-criteria evaluation, least cost pathway determination and digital elevation models. This course requires some familiarity with numerical methods and computer operations.

*Prerequisite(s):* 10.00 credits, including GEOG\*2480

## GEOG\*3490 Tourism and Environment W (3-0) [0.50]

An integrative perspective on tourism, addressing diverse interactions between people and tourist resources. Emphasis is on experiences derived from the use of resources, the environmental, economic and cultural impacts of tourism, and approaches to managing these impacts. (Also offered through distance education format.)

Prerequisite(s): 7.50 credits

#### GEOG\*3600 Geography of a Selected Region U (3-0) [0.50]

The study of an area which will include topics in physical, economic, social and historical aspects of geography.

*Prerequisite(s):* 7.50 credits

#### GEOG\*3610 Environmental Hydrology W (3-1) [0.50]

An introductory course in hydrology, the study of water in the environment. Emphasis is placed on understanding and modeling the hydrologic cycle. Topics include hydrologic processes, water resources, and case studies of freshwater systems.

Prerequisite(s): 7.50 credits, (GEOG\*2460 or STAT\*2040), (1 of GEOG\*2000, GEOG\*2110, or another 2000 level earth science or engineering science course is recommended)

#### GEOG\*3620 Desert Environments F (2-2) [0.50]

This course investigates the interrelationships among various biophysical processes that control weathering rates, sediment transport and landform/landscape development in arid environments. Topics will include: the concept of desertification, use and misuse of surface and ground water, salinization and the effect of human disturbance on landscape development. (Offered in even numbered years.)

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 (3-1) [0.50]

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\*4250 Coastal Processes F (3-1) [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 (3-2) [0.50]

This course adopts a project-oriented approach to the application of Geographic Information Systems (GIS) in spatial analysis. Students will have the opportunity to design and implement a research project using GIS techniques to investigate a problem in any area of Geography.

#### *Prerequisite(s):* GEOG\*3480

## GEOG\*4690 Geography Field Research F (3-6) [1.00]

This course provides an opportunity for senior students to develop skills in the design, implementation and presentation of a field research project. The course involves a field trip of about 10-14 days, either in Canada or abroad. This component of the course takes place between the end of the summer session and the start of classes in the fall semester. Classes during the fall semester focus on the analysis and interpretation of data and incorporate student research seminars. Information on the location and cost of the field research course is available from the department in the winter semester prior to each fall offering.

Prerequisite(s): 12.50 credits

Restriction(s): Restricted to majors in Geography B.A. and B.Sc.(Env.) and in Earth Surface Science (B.Sc.) with an overall average of at least 70% at the time of registration.

## 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 variety of approaches and convergence and divergence within the discipline. The interaction between human and physical geographers and their approaches to issues and the subject will be analyzed.

*Restriction(s):* Restricted to major honours students in Geography at semester 6 or above.

# GEOG\*4990 Independent Study in Geography U (3-0) [0.50]

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.

*Restriction(s):* Restricted to majors in Geography B.A. and B.Sc.(Env.) and in Earth Surface Science (B.Sc.) with an overall average of at least 70% at the time of registration.

## 433

Geology	GEOL*3100 Non-Renewable Earth Resources W (3-0) [0.50]
Department of Land Resource Science	An analysis of processes leading to formation and accumulation of principal non-renewable
GEOL*1050 Geology and the Environment F (2-3) [0.50]	metallic and non-metallic mineral and fuel resources. Methods of extraction and processing, economic assessment, environment problems associated with resource
Geological materials, their origin, recognition and economic potential, use and location;	development. Field trips may be scheduled. (Offered in even-numbered years.)
oil and gas, coal, mineral deposits, aggregate resources, groundwater, Geological basis	<i>Prerequisite(s):</i> GEOL*1050, 0.50 credits at the 2000 level in geology or
for environmental evaluation and land use. Emphasis on local and North American	geomorphology
examples.	GEOL*3120 Paleontology W (3-0) [0.50]
GEOL*1100 Principles of Geology F,W (3-0) [0.50]	Basic principles of analysis of fossil communities (mostly marine). Students shoul
Introduction to geological principles, their historical development and application to	already know the basic biology of common marine invertebrates. Sediment analysis an
interpreting Earth materials and processes. Suitable for those wishing a general knowledge of earth asigned. (Also offered through distance education format.)	process interpretation to determine paleoenvironments. Analysis of fossil preservation
of earth sciences. (Also offered through distance education format.)	autecology and population structures of species; community paleoecology of selecte fossil assemblages. Simple paleobiogeography and basics of community evolution throug
<i>Restriction(s):</i> GEOL*1040, UNIV*1030. May not be taken for credit by students in B.Sc.(Env.) Earth and Atmospheric Science Major, or B.Sc. Degree	time. Stages in the evolution of marine and continental ecosystems possible cause
program.	including physical (sea-levels, meteorite impacts) and biological (predation, evolution
GEOL*2020 Stratigraphy F (3-0) [0.50]	components. This is not a 'history of life' course. (Offered in even-numbered years.)
Principles of recognizing and interpreting earth surface environments using examples	Prerequisite(s): ZOO*2070
from geology, geomorphology and archeology. Brief summary of sediment identification,	GEOL*3130 Agrogeology W (3-0) [0.50]
recognition of processes and environments. Section description and interpretation followed	Inter-disciplinary course: geology; soil, crop and horticultural sciences; international
by principles of physical correlation and facies interpretation. Concepts of physical,	development. The geological basis of farming, application of agrominerals, such a
biological and radiometric dating. Controls on stratigraphic sequence development - isostasy, eustasy and tectonics. Sedimentary basin development, interpretation and history	phosphates, limestones, gypsums, as well as fertilizers in agriculture and horticulture Evaluating the environmental effects of mining/processing of agrominerals and the us
including changes in atmosphere, hydrosphere and biosphere. (Offered in even-numbered	of fertilizers. Case studies and experiences from around the world.
years.)	Prerequisite(s): 1 of AGR*2301/2, GEOL*1050, SOIL*2010, SOIL*2200
Prerequisite(s): 1 of GEOL*1050, GEOL*1100, GEOG*1300, GEOG*1350 or	GEOL*3190 Environmental Water Chemistry F (3-0) [0.50]
equivalent	An examination of the chemical composition of both natural and contaminated water
GEOL*2110 Earth Material Science F (3-3) [0.50]	at the earth's surface and the interaction of these waters with soils and sediments. The
Minerals are the building blocks of rocks, and rocks are the basis of the earth's crust. The	significance of these interactions will be studied with respect to the mobility of organ
nature, classification and recognition of the common rocks and minerals and their	and metallic constituents in geochemical cycles and as contaminants in the environmen
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): 1 of CHEM*1010, CHEM*1050, CHEM*1310
Prerequisite(s): GEOL*1050 or SOIL*2200	GEOL*3250 Field Methods in Geosciences F (2-2) [0.50]
GEOL*2160 Glacial Geology W (3-0) [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 skill
Identical to GEOL*2200 but without laboratory. Lectures taken with GEOL*2200.	while the rest of the term will be spent on developing a consulting proposal for field-based project. Other topics covered will be project design, proposal writing, or
<i>Prerequisite(s):</i> 1 of GEOG*1300, GEOL*1050, GEOL*1100, SOIL*2010 <i>Restriction(s):</i> GEOL*2150, GEOL*2200	communication skills and ethics of field-based research. Students are required to notif
GEOL*2200 Glacial Geology W (3-3) [0.50]	the designated departmental instructor of their intention to participate in this course durin
This course is designed to give students an introduction to the processes, landforms and	the previous Winter semester. There will be a fee to cover partial costs in this course
deposits of glacial environments. This includes basic principles of glaciology, the	students in financial need should approach the Chair of the department.
landforms and deposits found in various glacial and periglacial environments, and the	<i>Prerequisite(s):</i> GEOL*1050, GEOG*2000, (GEOL*2150 or GEOL*2200) <i>Restriction(s):</i> Restricted to Earth Surface Science Majors. Instructor consent required
nature of past glaciations in Earth history. Ancient to recent glacial deposits from the	GEOL*4090 Sedimentology F (3-3) [0.50]
Great Lakes region and other international locations will be examined. A field trip will be scheduled.	Origin, transport, deposition of sediments, and formation of sedimentary rocks. Emphasi
<i>Prerequisite(s):</i> 1 of GEOG*1300, GEOL*1050, GEOL*1100, SOIL*2010, AGR*2301	will be on the interpretation of recent and ancient environments of deposition, and o
, SOIL*2200	the uses of sedimentary materials. Six laboratories will be scheduled as field trips. On
Restriction(s): GEOL*2160, GEOL*2150	Saturday field trip may be scheduled. (Offered in even-numbered years.)
GEOL*2250 Geology of Natural Disasters S (3-0) [0.50]	Prerequisite(s): (1 of GEOL*2020, GEOL*2150, GEOL*2200, equivalent), (0.50
This course will offer insight into the mechanisms of natural geological disasters and	credit at the 3000 level in the GEOG*XXXX or GEOL*XXXX
their effects on Planet Earth, human civilization and life in general. Events before, during	grouping or equivalent)
and after geological disasters such as earthquakes, volcanic eruptions, meteorite impact	GEOL*4110 Topics in Earth Science F,W (3-0) [0.50]
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.)	Lecture-discussion or seminar on selected topics in Earth Science to be conducted b faculty with expertise in the area. Students should check with the department to determin
<i>Prerequisite(s):</i> 1 of GEOG*1300, GEOG*1350, GEOL*1050, GEOL*1100	what topic, if any, will be offered during specific semesters. Field trips will be schedule
	as required.
GEOL*3060 Groundwater W (3-0) [0.50] This course provides a general understanding of the physical and chemical processes that	Prerequisite(s): (GEOG*1300 or GEOL*1050), 0.50 credits at the 3000 level in a
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	science appropriate to chosen topic
interrelations between the groundwater regime and the other components of the	Restriction(s): Instructor consent required.
hydrological cycle are studied. Considerable emphasis is placed on the applied aspects	GEOL*4120 Topics in Earth Science F,W (3-0) [0.50]
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.	Lecture-discussion or seminar on selected topics in Earth Science to be conducted b
	faculty with expertise in the area. Students should check with the department to determine what topic, if any, will be offered during specific semesters. Field trips will be schedule
<i>Prerequisite(s):</i> 1 of IPS*1110, MATH*1000, MATH*1080, MATH*1200	as required.
GEOL*3090 Applied Structural Geology W (3-0) [0.50]	<i>Prerequisite(s):</i> (GEOG*1300 or GEOL*1050), 0.50 credits at the 3000 level in a
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.	science appropriate to chosen topic
distribution, origin and structural development of the major landforms in North America and other continents (plate tectonics). The course provides examples of structural geology	Restriction(s): Instructor consent required.
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\*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

# **German Studies**

#### School of Languages and Literatures

*NOTE:* The School reserves the right to determine the appropriate level to be taken by students enroling in language courses.

#### GERM\*1100 Introductory German I F,W (3-1) [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 or OAC German.

## GERM\*1110 Introductory German II F,W (3-1) [0.50]

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 or OAC German.

#### Prerequisite(s): GERM\*1100 or equivalent

### GERM\*2240 Germany Through the Ages W (3-0) [0.50]

A survey of German history, society and culture illustrated by art, music, film and literature. This course is taught in English.

#### 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]

Further development of conversational and writing skills; introduction to more complex grammar.

Prerequisite(s): GERM\*2490 or equivalent

#### GERM\*2560 Themes in German Literature/Culture W (3-0) [0.50]

This course aims to provide students with basic skills for interpreting literary texts through an exploration of themes that have shaped German literature and culture. Note: Students intending to take both GERM\*2560 and GERM\*2590 should take GERM\*2560 before GERM\*2590.

Prerequisite(s): GERM\*2490 or permission of the instructor

#### GERM\*2590 Classics of German Literature F (3-0) [0.50]

This course is designed to introduce students to German literary texts which could be considered classics. Note: Students intending to take both GERM\*2560 and GERM\*2590 should take GERM\*2560 before GERM\*2590.

## GERM\*3020 Myth and Fairy Tales in Germany F (3-1) [0.50]

The course explores the role of mythology, fairy tales and legends in late 18th- and 19thcentury German literature and culture in the context of socio-political developments. Topics may include the formation of a national identify, 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\*2560, GERM\*2590Equate(s):HUMN\*3020Restriction(s):GERM\*3440, HUMN\*3440

### GERM\*3450 20th-Century German Literature and Film F (3-1) [0.50]

Trends and cultural movements that have shaped the 20th-century as reflected in works of major writers (e.g. Mann, Kafka, Grass, Wolf) and film directors (e.g. Fassbinder). This course is offered in conjunction with HUMN\*3450. Lectures are in English. Students registered in GERM\*3450 will meet a fourth hour per week to discuss texts in German. (Offered in even-numbered years.)

*Prerequisite(s):* GERM\*2560, GERM\*2590 *Restriction(s):* HUMN\*3450 GERM\*3460 Women in 18th & 19th Century German Lit. W (3-1) [0.50]

This course is a study of changing images and social roles of women as represented in literary texts by and about women. It will consider the contribution of women to the literary life and cultures of German speaking countries and explore myths and misconceptions regarding women by addressing questions of image and reality. Lectures and texts are in English. Students registered in GERM\*3460 will meet a fourth hour per week to discuss texts in German. This course is offered in conjunction with HUMN\*3460 (Offered in even-numbered years)

Prerequisite(s):GERM\*2560, GERM\*2590Restriction(s):HUMN\*3460

## GERM\*3470 Holocaust & WWII in German Lit. & Film W (3-1) [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 Lectures and discussions are in English. Students registered in GERM\*3460 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) (First offering - Winter 2009)

Prerequisite(s): GERM\*2560, GERM\*2590 Restriction(s): HUMN\*3470

## GERM\*3500 Advanced German F (3-0) [0.50]

A study of advanced German grammar as well as aspects of structure and style of the German language. Oral presentations and discussions with a special emphasis on essay writing. Translation into idiomatic German and English.

Prerequisite(s): GERM\*2500

GERM\*3530 German in the Workplace W (3-0) [0.50]

This course is designed to enable students to communicate and interact appropriately in professional and business situations.

## Prerequisite(s): GERM\*2500 or equivalent

## 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

## School of Languages and Literatures

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.)

## GREK\*1100 Preliminary Greek I F (3-0) [0.50]

A beginning course in Greek, providing the fundamentals of structure and idiom. (This course may not be taken by anyone who has OAC Greek).

# GREK\*1110 Preliminary Greek II W (3-0) [0.50]

A continuation of GREK\*1100.

Prerequisite(s): GREK\*1100 or high school year 4 (Grade 12) Greek

## GREK\*2020 Greek Language and Culture F (3-0) [0.50]

Consolidation of fundamental morphology and syntax acquired in GREK\*1100 and GREK\*1110. Intensive reading in texts that also illuminate aspects of Greek culture. *Prerequisite(s):* GREK\*1100, GREK\*1110

# History

Department of History

Students wishing to take a 3000 level course must have pass standing in at least 4.50 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 Europe and 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 upheavals of 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 20th-Century Global History F,W (3-0) [0.50]

Twentieth-century world history with particular emphasis on Asia, Africa, and Latin America.

### 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 or 20th centuries.

#### *Restriction(s):* ASCI\*1000

#### HIST\*2000 The British Isles, 1066-1603 S,F (3-0) [0.50]

A comparative survey of the histories of England, Scotland, Ireland and Wales during the Medieval and Early Modern eras. Stress will be placed upon common themes such as institutional development, warfare and the often violent interaction between the English and the Celtic peoples.

#### HIST\*2020 Film as History W (2-1) [0.50]

This course will consider film both as a source and as a comment on the past. Topics will vary depending on instructor expertise, and may include film as propaganda, the city in film, film as myth, women and gender in film, film and war.

## HIST\*2040 War and Society W (3-0) [0.50]

Concentrating on developments following the introduction of gunpowder, the course will consider the evolution of military strategy and tactics, the impact of technology on warfare, and the relationship between war and civilian populations.

#### HIST\*2070 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 eastern religions, primal religions, 'People of the Book' (Judaism, Christianity and Islam considered together), and the 'New Religious Movements' (a category considering religions and para-religions produced by modernity). (Offered through distance education format only).

## HIST\*2100 Pre-Confederation Canada F (3-0) [0.50]

A study of selected events and issues in pre-Confederation Canadian history including political, economic, social, and cultural developments (C).

Restriction(s): HIST\*2601/2

HIST\*2110 The Atlantic World 1500-1850 F (3-0) [0.50]

A study of the comparative histories of colonial societies of England, France, Spain and Portugal in a transatlantic context. This course will compare for regional interconnections as well as the uniqueness of each society.

#### HIST\*2150 U.S.A.: Revolution to Reconstruction F (3-0) [0.50]

History of the United States from 1760 to 1877. The course will consider themes such as the creation of a national identity, sectionalism and Civil War, immigration, and the growth of modern American society.

## HIST\*2200 The Medieval World W (3-0) [0.50]

The major events and developments in Europe, north Africa and Western Asia from the fall of the Roman Empire to 1500 a.d. Emphasis will be placed on the evolution of western Christianity, the rise and expansion of Islam, the emergence of the University, and the growth of literacy and print culture culminating in the humanist movement of the late Middle Ages.

## HIST\*2250 Environment and History F,W (3-0) [0.50]

An introduction to the field of environmental history - its nature and uses. This course provides a historical perspective to environmental issues. It examines the causes and impact of human-induced modification of the natural world in selected areas of the globe, the evolution of attitudes and ideas about the natural world over time and the growth of conservation/environmental issues and movements. (Also offered through distance education format.)

#### HIST\*2260 Religion and Society W (3-0) [0.50]

This course surves the major trends in religious beliefs and practices and their social impact since the Reformation. The focus of the course is on the British Isles and North America with some discussion of developments in Continental Europe.

## HIST\*2390 Imperial and Soviet Russia Since 1800 W (3-0) [0.50]

An introductory survey of Russian History from the death of Catherine the Great to the onset of World War II. This course will focus on efforts by Russian rulers to modernize the Empire's social and economic institutions in response to Western influence. (Offered in odd-numbered years.)

## HIST\*2450 The Practicing Historian F,W (3-0) [0.50]

A course designed to acquaint students with the development of historical writing, the interpretive problems surrounding the study of history, and the methods employed by historians. (C) (Also offered in distance education format.)

Prerequisite(s): 1.00 credits in history at the 1000 or 2000 level

## HIST\*2500 Britain and the World Since 1600 U (3-0) [0.50]

This course will survey the history of England and the Celtic Regions of the British Isles from the close of the Tudor period up to the mid-20th century. Emphasis will be placed on social and economic development before and after the Industrial Revolution as well as on those political and military challenges which have characterized Britain's status as a global power in the modern era.

## HIST\*2510 The Emergence of Modern European Society 1789-1945 F (3-0) [0.50]

This course will deal with the emergence of modern European society as the result of socio-economic and consequent political changes from the French Revolution to the end of World War II.

## HIST\*2600 Post-Confederation Canada W (3-0) [0.50]

This course is a study of selected events and issues in post-Confederation Canadian history including political, economic, social, and cultural developments (C).

*Prerequisite(s):* HIST\*2100 *Restriction(s):* HIST\*2601/2

## HIST\*2610 Contemporary Canadian Issues S (3-0) [0.50]

A study of selected issues in modern Canadian history. The subjects investigated such as natives, the environment, the state, the family, will vary with the expertise of the instructor.

### HIST\*2650 America Since 1877 W (3-0) [0.50]

A survey of the history of the United States since Reconstruction. Political, social and intellectual developments will be covered, as will the rise of America to world power.

# HIST\*2800 The History of the Modern Family W (3-0) [0.50]

An examination of the family since 1500 with particular emphasis on the English speaking world, though comparisons will be made with other societies. Topics considered will include: change in the legal structure of marriage; power relations and sex roles within the family; the role of kin in the family; changing attitudes to sexuality; the attitude of state to the family and its functions.

## HIST\*2820 Modern France, 1750-1992: From Louis XV to Mitterand U (3-0) [0.50]

This course is a survey of French history from the beginning of modernization in the 18th century to the challenges of the late 20th century. Topics will include the Revolution, the Napoleonic period, social and political transformation in the 19th century, the Great War, the defeat of 1940 and Vichy, and the remarkable changes in French life since the Second World War.

## HIST\*2830 The Emergence of Modern Germany 1871-1990 U (3-0) [0.50]

This course will be devoted to a study of major themes in modern German history, and to an analysis of Germany's role in post-war Europe. Topics include the unification of Germany, the role of nationalism in modern German history, the significance of the Bismarck era, the rise of Hitler and the development of the two Germanies until their unification in 1990.

HIST*2850 History of Greece and Rome W (3-0) [0.50]	HIST*3090 Nationalism and Internationalism in Europe 1914-1957 U (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.	This course will be concerned with two main themes of 20th-century European history: the impact of nationalism and the gradual emergence of international ideas and institutions.
HIST*2890 History of the Islamic World F (3-0) [0.50]	Major topics to be discussed include nationalism during the two world wars, the strengths
An introduction to the history of Islam. The course will consider the founding of Islam, its global diffusion, and its role in the transformation of modern societies in the developing	<ul> <li>and weaknesses of the League of Nations, and the creation of the European Economic Community.</li> <li>Prerequisite(s): 4.50 credits including HIST*2510</li> </ul>
world.	HIST*3130 Popular Culture and Punishment, 1700-1900 U (3-0) [0.50]
HIST*2910 History of Modern Asia W (3-0) [0.50]	The course will survey the social, political and intellectual influences upon the leisure
An introduction to the histories and cultures of South, Southeast and East Asia since 1750. The course will consider the evolution of Asian religions, cultural identities, concepts of state and of society in the modern era.	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.
HIST*2920 Republican Latin America W (3-0) [0.50]	<i>Prerequisite(s):</i> 4.50 credits including HIST*1010 or SOC*1500
This course will study selected themes in the history of Latin American republics from	HIST*3140 Witch-hunts and Popular Culture S (0-0) [0.50]
the independence period to the modern era.	This course will explore the phenomenon of the 'witch-hunts' in early modern Europe
HIST*2930 Women and Cultural Change F (3-0) [0.50]	through a focus on Scotland in the period 1560-1700. In doing so it will provide students
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.	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
HIST*2960 Topics in the History of Slavery U (3-0) [0.50]	examinations of gender history and its contributions to our understandings of the period.
This course introduces students to slavery and the slave trades of the societies of the	(Offered through distance education format only.)
Atlantic Rim during the era of the Atlantic slave trade. The African experience of the trade constitutes a major focus, but the course also examines aspects of the Atlantic and	<i>Prerequisite(s):</i> 4.50 credits including HIST*1010 or instructor consent required.
the trans-Saharan slave trades as they affected societies on the other side of the Atlantic	HIST*3150 History and Culture of Mexico U (3-0) [0.50]
and in the Islamic Middle East. The course also examines the disputed links between the	This course will cover the history and culture of Mexico from its Precolumbian
Atlantic slave trade and the rise of capitalism on the one hand and underdevelopment on the other.	civilizations to the present. Topics may include: Aztec and Maya civilizations, European discovery and conquest, inquisition, convents, independence, the Mexican Revolution,
	indigenismo, NAFTA and Zapatista insurgency in Chiapas.
HIST*3010 Political Culture in Britain, 1455-1689 U (3-0) [0.50]	<i>Prerequisite(s):</i> 4.50 credits including 1 of HIST*2110, HIST*2920, HIST*2930
An assessment of the transformation of British ideals of monarchy from the Wars of the Roses to the Glorious Revolution. The course will examine the changes in political	HIST*3160 Canadian Political History Since 1867 U (3-0) [0.50]
thought in early modern Britain that emerged as a result of the Renaissance, Reformations, and Scientific Revolution.	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
Prerequisite(s): 4.50 credits including HIST*1010 or HIST*2000	and character of the state.
HIST*3020 Sexuality and Gender in History U (3-0) [0.50]	<i>Prerequisite(s):</i> 4.50 credits including 1 of HIST*2100, HIST*2600, HIST*2601/2
This course provides an introduction to the issues of sexuality and gender within history.	HIST*3270 Revolution in the Modern World W (3-0) [0.50]
The course will enable students to develop an understanding of how issues of masculinity,	This course offers a comparative analysis of revolutionary movements in the modern
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	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.
the instructor. (Also offered through distance education format.)	Comparative themes include the relative importance of ideology and class conflict, the
Prerequisite(s): 4.50 credits	emergence of professional revolutionaries, and the relationship between revolutions and
HIST*3030 Celtic Britain and Ireland to 1066 U (3-0) [0.50]	international relations.
The social, political and cultural history of the Celtic peoples of the British Isles from	Prerequisite(s): 4.50 credits
Prehistory to the advent of the Normans. Special consideration will be given to the	HIST*3310 Disease and History U (3-0) [0.50]
development of Celtic institutions as well as to comparative study of successive waves of invaders-Romans, Anglo-Saxons, Vikings and Normans.	This interdisciplinary course provides an introduction to the historical interactions between disease and human against from the Middle Ages to the present Major themes may
Prerequisite(s): 4.50 credits including HIST*2000	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; disease and gender. (Offered in even-numbered
HIST*3060 American Society U (3-0) [0.50]	years.)
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	Prerequisite(s): 4.50 credits
such themes as War and American society, the Jacksonian Era, Civil War America, or	HIST*3380 British Imperialism in Asia and Africa U (3-0) [0.50]

HIST\*3380 British Imperialism in Asia and Africa U (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): 4.50 credits including HIST\*2500 or HIST\*2510

HIST\*3410 The History of Pre-Colonial Africa U (3-0) [0.50]

This course will include studies on the Ibo, Yoruba and Edo societies, and on the Dahomey, Hausa, Western Congo and Angola states; 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): 4.50 credits including HIST\*1150 or HIST\*2960

industries.

American popular culture.

Prerequisite(s): 4.50 credits including HIST\*2150 or HIST\*2650

Prerequisite(s): 4.50 credits including HIST\*2910 or HIST\*3590

This course studies the history of modern South Asia from 1757 to the present day.

Possible topics include: ideologies of British power in South Asia, Indian reactions to imperialism, socio-religious movements, the birth of nationalism and the nation-state in

South Asia, civil society and social issues in a developing nation, regionalism, foreign

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

HIST\*3070 Modern South Asia U (3-0) [0.50]

policy and South Asia's place in the 21st century.

HIST\*3080 United States in the World U (3-0) [0.50]

Prerequisite(s): 4.50 credits including HIST\*2650

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XII. Course Descriptions, History	439
HIST*3420 Colonial Latin America F (3-0) [0.50]	HIST*3600 Quebec History U (3-0) [0.50]
This course covers the history of Latin America from the pre-Columbian period to age	Examines selected themes in the social, economic, political and cultural evolution of
of independence in the early nineteenth century. Topics include pre-Columbian	Quebec and its relations with the rest of Canada.
civilizations; the European conquest; the development of colonial societies and politics; the growth of slavery; eighteenth-century imperial reform, and the rise of independence	<i>Prerequisite(s):</i> 4.50 credits including 1 of HIST*2100, HIST*2600, HIST*2601/2
movements. (Offered in even-numbered years.)	HIST*3650 Twentieth-Century America U (3-0) [0.50]
Prerequisite(s): 4.50 credits	This course examines political and social changes in the United States during the latter
HIST*3430 Topics in Environment and Society U (3-0) [0.50]	decades of the 20 <sup>th</sup> century and into the 21 <sup>st</sup> . America's international role will be considered, as well as conflicts over such issues as 'race', ethnicity, gender, and culture.
This is a topical course, which builds on themes introduced in HIST*2250, Environment	<i>Prerequisite(s):</i> 4.50 credits including HIST*2650
and History. Topics may include global deforestation; the origins of the global environmental movement; agriculture and the environment; the environmental impact	HIST*3660 Canadian Social History U (3-0) [0.50]
of cultural encounters.	An examination of selected themes in the development of Canadian society such as the
Prerequisite(s): 4.50 credits including HIST*2250	role of class, the social consequences of industrialization and urbanization, immigration,
HIST*3450 The Public Face of History U (2-1) [0.50]	ethnicity and religion, education and culture.
Critical analysis of public history and memory through the activities of governments and	Prerequisite(s): 4.50 credits including 1 of HIST*2100, HIST*2600, HIST*2601/2
voluntary associations. History as presented in films, television, schools, museums,	HIST*3750 The Reformation U (3-0) [0.50]
archives, commemorations, historical fiction, or popular non-fiction is examined.	The changes in religious, social and cultural life in 16th century Europe. This course will examine the impact of humanism, the developments in urban culture known as the
Prerequisite(s): 4.50 credits including HIST*2450	Renaissance, the reform movements, in central and western Europe, the Catholic response,
HIST*3470 Independent Reading U (3-0) [0.50]	and the resulting disintegration of the medieval social order.
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): 4.50 credits including HIST*1010
Prerequisite(s): 7.50 credits	HIST*3820 Early Modern France U (3-0) [0.50]
Restriction(s): Instructor consent required.	This course surveys French History from the renaissance to the French Revolution.
HIST*3480 Workplace Learning U (0-0) [0.50]	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
An independent study course based on either History related voluntary or paid workplace	and 18th centuries, which culminated in the 1789 Revolution.
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	Prerequisite(s): 4.50 credits
aspect of the work experience. Students interested in this option must have their project	HIST*3910 Africa Since 1800 U (3-0) [0.50]
approved by the department prior to the semester in which they plan to engage in their	This course will trace the suppression of the slave trade and the opening of Africa to
work experience. Students will then be assigned to a faculty supervisor who will oversee the project.	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
<i>Prerequisite(s):</i> 7.50 credits including 1.50 History or equivalent credits	national liberation movement to the achievement of independence.
<i>Restriction(s):</i> Instructor consent required.	<i>Prerequisite(s):</i> 4.50 credits including HIST*1150 or HIST*2960
HIST*3530 Celtic Britain and Ireland Since 1603 U (3-0) [0.50]	HIST*4030 Historical Biography U (3-0) [0.50]
This course will deal with the Celtic peoples in the British Isles and their effort to maintain	This advanced research seminar asks students to consider the role of the individual in
their cultural, economic and political independence.	history by reading theoretical works and examples drawn from the major schools of
Prerequisite(s): 4.50 credits including 1 of HIST*2000, HIST*2500, HIST*3030	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
HIST*3540 World War Two U (3-0) [0.50]	on their chosen subject. (H)
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	Prerequisite(s): 10.00 credits including 1.50 credits in History at the 3000-level
developments of the major participating nations.	<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.
<i>Prerequisite(s):</i> 4.50 credits including 2 of HIST*1150, HIST*2040, HIST*2100,	HIST*4040 Topics in Scottish History U (3-0) [0.50]
HIST*2500, HIST*2510, HIST*2601/2, HIST*2600, HIST*2650,	A seminar course dealing with selected aspects of Scottish social, economic and political
HIST*2830,	history. The seminars will be based upon an examination of primary sources from the
HIST*3570 Women in Modern Europe U (3-0) [0.50]	University library's extensive Scottish Collections, as well as secondary literature. Students
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	should consult with the department for specific offerings. (H)
occupations.	<i>Prerequisite(s):</i> 10.00 credits including HIST*3530 <i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum
<i>Prerequisite(s):</i> 4.50 credits including 1 of HIST*2500, HIST*2510, HIST*2800,	of 70% average in all History course attempts.
HIST*2930	HIST*4050 Topics in Scottish History U (3-0) [0.50]
HIST*3580 Women's History in Asia U (3-0) [0.50]	A seminar course dealing with selected aspects of Scottish social, economic and political
This course examines the roles of women in one or more countries of Asia through the prime offered by ideas of 'rece' class gender social status material culture intellectual	history. The seminars will be based upon an examination of primary sources from the
prisms offered by ideas of 'race', class, gender, social status, material culture, intellectual life, and ideology.	University library's extensive Scottish Collections, as well as secondary literature. Students should consult with the department for specific offerings. (H)
<i>Prerequisite(s):</i> 4.50 credits including 1 of HIST*1150, HIST*2800, HIST*2890,	Prerequisite(s): 10.00 credits including HIST*3530
HIST*2910, HIST*2930	<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum
HIST*3590 Ancient & Medieval South Asia F (3-0) [0.50]	of 70% average in all History course attempts.
This course examines South Asian history from the beginnings of civilization on the	HIST*4090 Modern European History U (3-0) [0.50]
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	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
overview and analysis of the cultural, social, religious, political and economic development of South Asian civilization, including development from tribe to state to civil society,	the nineteenth and/or twentieth centuries. Topics chosen will vary with expertise of the instructor. (H)
political organization, socio-religious movements, cultural contact and exchange, and	<i>Prerequisite(s):</i> 10.00 credits including 1 of HIST*1150, HIST*2510, HIST*3090
the development of a composite culture.	<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum

440	XII. Course Descriptions, History
HIST*4100 Africa and the Slave Trades U (3-0) [0.50]	HIST*4470 Special History Project Seminar I U (3-0) [0.50]
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)	<ul> <li>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)</li> <li><i>Prerequisite(s):</i> 10.00 credits</li> <li><i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructor consent</li> </ul>
<i>Prerequisite(s):</i> 10.00 credits including 1 of HIST*2960, HIST*3410, HIST*3910 <i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum	required.
of 70% average in all History course attempts.	HIST*4560 Topics in Revolution U (3-0) [0.50]
HIST*4120 Topics in Global History U (3-0) [0.50]         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	A seminar course 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) <i>Prerequisite(s):</i> 10.00 credits <i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructor consent
<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.	required.
HIST*4160 Seminar in Canadian Political History U (3-0) [0.50]	HIST*4570 Topics in Revolution U (3-0) [0.50] A seminar course designed to explore one or more social or political or intellectual
Political events, key personalities, the political process, and state instruments and institutions will be analyzed with a view to understanding historical aspects of the political system and culture in Canada. (H) <i>Prerequisite(s):</i> 10.00 credits including 1 of HIST*2100, HIST*2600, HIST*2601/2 <i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum	<ul> <li>revolutions in the early modern or modern era depending on the expertise of the instructor.</li> <li>Students should consult the department for specific offerings. (H)</li> <li><i>Prerequisite(s):</i> 10.00 credits</li> <li><i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructor consent</li> </ul>
of 70% average in all History course attempts.	required.
HIST*4180 American Identities U (3-0) [0.50]	HIST*4580 Topics in Revolution U (3-0) [0.50]
<ul> <li>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)</li> <li><i>Prerequisite(s):</i> 10.00 credits including HIST*2650</li> <li><i>Restriction(s):</i> HIST*4210, restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</li> </ul>	<ul> <li>A seminar course 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)</li> <li><i>Prerequisite(s):</i> 10.00 credits</li> <li><i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructor consent</li> </ul>
HIST*4190 The American South U (3-0) [0.50]	required.
A study of the slave south from colonial times to the Civil War, this course will concentrate on the evolution of the plantation system and slave society, the growth of a distinctive south civilization, and the immediate causes of the Civil War. (H) <i>Prerequisite(s):</i> 10.00 credits including HIST*2150 or HIST*2650 <i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.	HIST*4620 Seminar in Canadian Rural History U (3-0) [0.50]         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)         Prerequisite(s):       10.00 credits including 1 of HIST*2100, HIST*2600, HIST*2601/2         Restriction(s):       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) [0.50]	HIST*4670 Seminar in Science and Society W (3-0) [0.50]
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 1 of HIST*2100, HIST*2600, HIST*2601/2Restriction(s): HIST*3220, restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.	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) <i>Prerequisite(s):</i> 10.00 credits including either HIST*1250 or ASCI*1000
HIST*4280 Poverty and Policy in the Victorian Age U (3-0) [0.50]	<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum
Starting with the debates over the New Poor Law of 1834, this course will examine the	of 70% average in all History course attempts. HIST*4680 The U.S. in the Era of Urbanization, 1870-1920 U (1-2) [0.50]
<ul> <li>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)</li> <li><i>Prerequisite(s):</i> 10.00 credits including HIST*2500</li> <li><i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</li> </ul>	This course will examine social and intellectual developments in the United States with emphasis placed on the period between the Civil War and World War I. An important area of study will be the nature and consequences of urban development. Stress is laid on the reading of primary sources. (H) <i>Prerequisite(s):</i> 10.00 credits including HIST*2150 or HIST*2650
HIST*4450 History with Numbers F (3-0) [0.50]	<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.
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 Americans. (H) <i>Prerequisite(s):</i> 10.00 credits including HIST*2450, and at least 1.00 credits in History at the 3000 level or above.	HIST*4700 Topics in Medieval History U (3-0) [0.50]         A detailed analysis of selected aspects of the Middle Ages from c. 1000. Students should consult the department for specific offerings. (H)         Prerequisite(s):       10.00 credits including HIST*2000 or HIST*2200         Restriction(s):       Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.
<i>Restriction(s):</i> Restricted to students in the B.A. Honours program with a minimum	HIST*4710 Topics in Medieval History U (3-0) [0.50]
of 70% average in all History course attempts.	A detailed analysis of selected aspects of the Middle Ages from c. 1000. Students should consult the department for specific offerings. (H)
	<ul> <li>Prerequisite(s): 10.00 credits including HIST*2000 or HIST*2200</li> <li>Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</li> </ul>

of 70% average in all History course attempts.

HIST*4900 Imp	HIST*4900 Imperialism and Nationalism in South Asia U (3-0) [0.50]	
This course will examine India's experience of and reaction to colonial rule from the advent of the British Raj in 1757 through to decolonization in 1947. Emphasis will be placed not only on mainstream political movements, but also on the role played by subaltern groups such as women, peasants and workers. (H)		
Prerequisite(s):	10.00 credits including 1 of HIST*2890, HIST*2910, HIST*3070, HIST*3380	
Restriction(s):	Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.	
HIST*4970 Special History Project Seminar II U (3-0) [0.50]		
A continuation o	f HIST*4470. (H)	
Prerequisite(s): Restriction(s):	10.00 credits Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructor consent required.	

Biology, behavior and impact of insect pests of turfgrass and recognition of symptoms

will be emphasized. Identification and management of weed species commonly found

in turfgrass will be discussed. Environmental impacts of cultural and chemical control

techniques will be discussed for each group of pests and advances in chemical and

Principles and practices of propagation for horticultural plants. Sexual (seed) propagation

to include seed maturation, dormancy and seed germination; vegetative (asexual)

Identification and cultural adaptation of native and introduced woody plants useful in

Principles and practices of production, culture and marketing of greenhouse flower and

propagation, including division, layering, budding, grafting and tissue culture.

biological control methods will be developed.

HORT\*3230 Plant Propagation F (2-2) [0.50]

HORT\*3260 Woody Plants F (1-3) [0.50]

Prerequisite(s): BOT\*3310 or PBIO\*3110

HORT\*3280 Greenhouse Production W (3-3) [0.50]

cultivated landscapes and natural areas.

Prerequisite(s): HORT\*2450

Restriction(s): DTM\*3300

Prerequisite(s): BIOL\*1040

Prerequisite(s): BIOL\*1030

vegetable crops.

442	XII. Course Descriptions, Horticultural Science
Horticultural Science	HORT*2060 Plant Identification: Herbaceous Plants F (3-2) [0.50]
Department of Plant Agriculture	This course covers the identification, naming, selection and landscape accommodation
HORT*1050 Introduction to Horticultural Management F (2-3) [0.50]	of families and groups of herbaceous plants with ornamental importance. The course will explore further the nomenclature of ornamental plants through the horticultural
This course is an overview of the various sectors of the horticulture industry and an investigation into specific sectors, that will include field trips, practical hands-on experience with tools and equipment, and safety legislation and practices. Industry sectors such as food and ornamental crop production, greenhouse and nursery production, landscape management, design/build and maintenance contracting, and gardening, will be examined and discussed. The variety breadth and importance of the horticulture industry in Ontario's economy will be outlined and discussed.	significant taxonomic categories cultivar-group and cultivar-series. Prerequisite(s): HORT*1060 Restriction(s): Registered in B.B.R.M. Location(s): Ridgetown HORT*2080 Horticultural Weed Science F (3-2) [0.50] This course will provide the students with hands-on training of the basic anatomic: elements and biology of weeds commonly found in ornamental horticulture, as well a
Restriction(s):         Registration in B.B.R.M., Horticulture Major           Location(s):         Ridgetown	applied knowledge methods of weed control, herbicide mode of action, and basis of
HORT*1060 Plant Identification: Woody Plants F (3-2) [0.50]	selectivity.
In this course, students will learn the identification, naming, selection and landscape adaptation of cultivated woody plants. Elements of classification and nomenclature will	Prerequisite(s):       BIOL*1030         Restriction(s):       Registered in B.B.R.M.         Location(s):       Ridgetown
provide a basis for learning common names, botanic names and morphological terms. Plant habit will be related to landscape function. Discussion will include the diversity of	HORT*2200 Integrated Project W (2-3) [0.50]
human interactions with woody plants both historically and in modern times. (Also offered through distance education format.)	A comprehensive study of the technical and economic aspects of a business operatio will be undertaken. This will include the development of a general business plan in sector of interest to the student, incorporating basic product information and a detaile
Restriction(s):         Registration in B.B.R.M., Horticulture Major, HORT*3260           Location(s):         Ridgetown	definition of the business or aspect of the discipline.
HORT*1070 Fruit Production F (2-3) [0.50]	Prerequisite(s): AGEC*1100, (AGEC*2220 or BUS*2220) Co-requisite(s): AGEC*2230 or BUS*2230
This course covers the commercial production and management of major small and tree fruit crops grown in Ontario, with the exception of grapes. Discussion topics include site and location selection, cultural management, and economics of fruit crop production in	Restriction(s):Registered in B.B.R.M.Location(s):Ridgetown
a temperate climate.	HORT*2450 Introduction to Turfgrass Science F (3-2) [0.50]
Restriction(s):Registered in B.B.R.M.Location(s):Ridgetown	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 lif strategies of different turfgrass species, principles of reproduction and techniques for
HORT*1080 Vegetable Production I F (2-3) [0.50]	establishment of turfgrass by seeding, sprigging and sodding. The ecology of management
This course includes commercial production and management of field-grown fresh market and processing vegetable crops, with emphasis placed on the major botanical families of vegetable crops grown in Ontario. Topics discussed include cropping systems of the major vegetable crop families, production trends, site selection, seed propagation, ransplant production, use of mulches and rowcovers, irrigation techniques, harvesting	including mowing, irrigation, cultivation, mineral nutrition, repair and renovation, an management of stresses (thatch, weeds, insects, disease). The turfgrass industry will b introduced, including application of ecological principles to athletic field management sod production, golf course management, and professional lawn care. <i>Prerequisite(s):</i> BIOL*1040
and post-harvest handling of major vegetable crops including quality parameters, health benefits of vegetables, processing techniques, and marketing.	Restriction(s): HORT*3220
Restriction(s):       Registered in B.B.R.M.         Location(s):       Ridgetown	HORT*3010 Annual, Perennial and Indoor Plants - Identification and Use F (2-2 [0.50]
HORT*1100 Plant Propagation Techniques W (3-2) [0.50]	This course focuses on the identification and adaptation of annual, biennial, perennia herbaceous and indoor plants. Lectures will be integrated with outdoor laboratory activitie
This course covers the principles and practices of propagation for horticultural plants. Sexual propagation discussions include dormancy issues, collection, viability tests, storage and seed germination. Vegetative propagation discussions include cuttings, division,	to emphasize utilization of plant groups in park, perennial border, general landscap botanic garden and interiorscape settings. (Offered in odd-numbered years.) <i>Prerequisite(s):</i> 0.50 credits in botany
layering, budding, grafting and tissue culture.	HORT*3050 Management of Turfgrass Insect Pests and Weeds F (3-2) [0.50]
Restriction(s): Registered in B B R M	

Restriction(s):

challenges for vegetables.

Restriction(s):

Restriction(s):

Location(s):

Location(s):

Location(s):

Registered in B.B.R.M.

Registered in B.B.R.M.

Registered in B.B.R.M.

Ridgetown HORT\*2010 Greenhouse Management F (3-2) [0.50]

Ridgetown

This course includes commercial production and management of field-grown fresh market

and processing vegetable crops not covered in Vegetable Production I, with some emphasis placed on production practices and quality characteristics specific to minor vegetable

crops. Topics include cropping systems for minor vegetable crops, physiological bases

for cultural practices, grading of vegetable crops, nutrient requirements and legislation,

major costs associated with vegetable production, harvesting and post-harvest handling

of minor vegetable crops including quality parameters, organic production, and marketing

This course covers management of the greenhouse environment including temperature,

relative humidity, C02 and light. Computer controls, pest management, crop culture, containers, mixes, greenhouse heat loss calculations, construction, fertility, diagnostics,

post-harvest, etc. are also examined. Students will be required to have a detailed

understanding of the theoretical aspects of greenhouse management including

physiological, morphological, anatomical, and bio-chemical aspects of greenhouse crops.

HORT\*1200 Vegetable Production II W (2-3) [0.50]

Ridgetown

## 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 emphasis encompasses nursery stock production and arboriculture.

Prerequisite(s):BIOL\*1030 or equivalentEquate(s):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]

The 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. (First offering - Winter 2010)

*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\*3300 or PBIO\*3110

#### HORT\*4380 Tropical and Sub-Tropical Horticultural Crops F (3-0) [0.50]

Principles involved in the production and utilization of tropical and sub-tropical horticultural crops and agroforestry. 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 F (3-2) [0.50]

Topics include integrated turfgrass and pest management, water quality, and developing technologies in turfgrass science and management. Challenges facing turfgrass managers will be considered including turf quality, environmental impact, scheduling and financial implications. (First offering - Fall 2009)

*Prerequisite(s):* ENVB\*3160, HORT\*2450, HORT\*3050

#### HORT\*4900 Plant Agriculture Special Project I S,F,W (1-5) [0.50]

The student, in consultation with a faculty member, will select and define a research problem. Supervisory arrangements should be made at least one semester prior to commencing the course. The course will include preparation of a detailed literature review, project proposal and progress report. This course may be followed by HORT\*4910 to provide two semesters for completion of the project.

*Prerequisite(s):* 15.00 credits

*Restriction(s):* Registration in B.Sc. or B.Sc.(Agr.) program.

## HORT\*4910 Plant Agriculture Special Project II S,F,W (1-5) [0.50]

A continuation of HORT\*4900 in which the student will complete the research, write up the research findings in a scholarly scientific style and present a seminar.

*Prerequisite(s):* HORT\*4900

Hospitality and Tourism Management	HTM*2120 Hospitality and Tourism Marketing I W (3-0) [0.50]
School of Hospitality and Tourism Management	This course discusses the hospitality and tourism marketing environment in Canada and
HTM*1000 Introduction to Hospitality and Tourism Management F (3-0) [0.50]	all elements of the marketing planning process through the use of numerous up-to-date examples from all geographic areas and sectors of the tourism and hospitality industries.
A survey of the hospitality and tourism industry, with reference to its historical development, growth, organization; the management process, and the scope of the industry today. <i>Equate(s):</i> HAFA*1000	Students will gain a comprehensive understanding of the private and public sector stakeholders as well as the contemporary marketing challenges they face. <i>Prerequisite(s):</i> HTM*1000 <i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism
<i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.	Management.
HTM*2000 Hospitality Purchasing Management W (3-0) [0.50]	HTM*2150 Introduction to Canadian Business Management U (3-0) [0.50] An introductory course in the fundamentals of business management in Canada. Students
This course introduces the management of the purchasing function in hospitality businesses as it applies to food, beverages, supplies, equipment, furnishings and services. The focus is on the process of managing the supply channel as well as on developing appropriate policies and procedures.         Prerequisite(s):       1 of HAFA*1000, HTM*1000, (ECON*1050, HAFA*2700), (ECON*1050, HTM*2700)         Equate(s):       HAFA*2000         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism	<ul> <li>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.)</li> <li>Equate(s): HAFA*2150</li> <li>Restriction(s): B.Comm. students cannot take this course for credit.</li> </ul>
Management.	HTM*2170 Canadian Tourism Policy, Planning and Development W (3-0) [0.50]
HTM*2010 Hospitality and Tourism Business Communications F,W (3-0) [0.50]Designed to enhance students' professionalism in the hospitality and tourism fields byimproving their communication skills. The focus is primarily on writing (business letters,memos, and reports), but also includes effective speaking/presentation skills. Theassignments are based on hospitality and tourism issues.Prerequisite(s): 1 of HAFA*1000, HAFA*2700, HTM*1000, HTM*2700Equate(s): HAFA*2010Registration in B.Comm. HAFA, HAFA Co-op or Tourism	This course focuses on the various aspects of tourism planning, policy, and development in Canada. 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. <i>Prerequisite(s):</i> GEOG*1220, HTM*1000, HTM*2050 <i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.
Management.	HTM*2200 Organizational Behaviour I F,W (3-0) [0.50]
HTM*2030 Control Systems in the Hospitality Industry F,W (3-0) [0.50]	This course introduces organizational behaviour. It focuses on individual perception,
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.) <i>Prerequisite(s):</i> 1 of HAFA*2000, HAFA*2700, HTM*2000, HTM*2700 <i>Equate(s):</i> HAFA*2030	<ul> <li>learning, communication, motivation and decision-making as well as group effectiveness, problem-solving and decision-making. (Also offered through distance education format.)</li> <li><i>Prerequisite(s):</i> 5.00 credits</li> <li><i>Equate(s):</i> HAFA*2200</li> <li><i>Restriction(s):</i> ISS*2500, PSYC*3080. Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.</li> </ul>
<i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism	HTM*2700 Introductory Foods F,W (3-2) [0.50]
Management, B.A.Sc. Applied Human Nutrition. HTM*2050 Dimensions of Tourism F (3-0) [0.50]	Scientific principles and their application to food preparation and food consumption. An
This course examines tourism as an amalgam of industries - transportation,	integrated lecture and laboratory approach is used to study the chemical and physical properties of foods.
<ul> <li>accommodation, travel, trade and other facilitating services; follows a multidisciplinary approach in its analysis, organization, planning and control.</li> <li><i>Prerequisite(s):</i> HTM*2120</li> <li><i>Equate(s):</i> HAFA*3100 and HTM*3100</li> <li><i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism</li> </ul>	Prerequisite(s):       1 of Grade 12U Chemistry, OAC Chemistry, CHEM*1000, CHEM*1040, CHEM*1060, CHEM*1100         Equate(s):       HAFA*2700         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management, B.A.Sc. Applied Human Nutrition.
Management.	HTM*2740 Cultural Aspects of Food F (3-0) [0.50]
HTM*2070 Meetings and Convention Management F (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):HAFA*1000 or HTM*1000Restriction(s):Registration in B.Comm. HAFA, HAFA Co-op or Tourism	<ul> <li>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.</li> <li>Equate(s): HAFA*2740</li> <li>HTM*3000 Human Resources Management F,W (3-0) [0.50]</li> <li>This course examines the essential human resource function of planning, staffing, employee training and development, employee assistance programs, the legal environment and environment in a variative of environment least inc.</li> </ul>
Management.	and employee maintenance in a variety of organizational settings. (Also offered through distance education format.)
HTM*2100 Lodging Operations W (3-0) [0.50]	<i>Prerequisite(s):</i> 1 of AGEC*2220, BUS*2220, FRHD*3060, HAFA*2030,
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.	HAFA*2200, HTM*2030, HTM*2200Equate(s):HAFA*3000Restriction(s):PSYC*3070. Priority Access course. Enrolment restricted to particular
Prerequisite(s):       HAFA*1000 or HTM*1000         Equate(s):       HAFA*2100         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         Management.       Management.	programs or specializations. See department for more information.

<ul> <li>This corres examines the attractivenes of communities of communitis and communities of communities of communities of communities</li></ul>		HTM*3160 Destination Management and Marketing F (3-0) [0.50]	
<ul> <li>International and beir importance in the longitudity environment. Cause topics and possible service statics are excluded as and the summarized and possible service statics are excluded as and the summarized for development of the s</li></ul>			
<ul> <li>Include product characteristics, purchaning prefing, numbering prefing, numb</li></ul>			
<ul> <li>presentation (f): 10.01 credits</li> <li>Retriction (f): 11.01 ArX4100, 11704/100,</li></ul>	include product characteristics, purchasing, pricing, control, marketing and promotion,	tourism industry. Methods to encourage visitation are explored as are the attempts to	
<ul> <li>HAPA '110, HAPA'110, Regination in B Count, HAPA, HAPA</li> <li>Preception of Torism Management (1-0-0) (6-9)</li> <li>Tresponse management and practices of loging management and relation in B Count, HAPA'100, HAPA'2100, HAPA'2100,</li></ul>	trends and the responsible service of alcoholic beverages.		
Coop or Turnion Management Students must be of legid driving get in Ontario.         Figure (1): HATA'3000         HATA'3010           HTM'300 Lodging Management U-040 (L50)         The apple cool with a Conan. Tourism Management.         The apple cool with a Conan. Tourism Management.           Cooper to advance in a finite action on transmission of advance in a finite action on transmission.         The apple cool with a Conan. Tourism Management.         The apple cool with a Conan. Tourism Management.           Advances of the apple cool with a Conan.         The apple cool with a Conan. Tourism Management.         The apple cool with a Conan. Tourism Management.           Advances of the apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           Advances of the apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           Advances of the apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           The apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           The apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           The apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           The apple cool with a Conan.         The apple cool with a Conan.         The apple cool with a Conan.           The apple cool with a Con			
Interface         Retriction():         Registration in B Comm. Tourism Management.           The sphere and analysis: the principles and practices of loging management and related activity. The management of an interaction annay struture interaction and strutur			
<ul> <li>ITMP-300 Lodging Management (1.6-19, 0.80)</li> <li>ITMP-300 Lodging Management (1.6-19, 0.80)</li> <li>ITMP-300 Lodging Management, 1.6-19, 0.80)</li> <li>ITMP-300 Lodging Management, 1.6-19, 0.80)</li> <li>Itageneration and hereasy operations of balance for a correct on management matching, second management, marking, second matching, second management, marking, second matching, second management, 1.6-19, 0.80)</li> <li>Itageneration and second s</li></ul>			
Tro-cycle management of miteraction and your of using presenters and relations of hostises principles. Isolaties and presenters of meta- adaption and control, casino accounting and funcation tendors in marketing, security and anong departments. Studies and control, casino accounting and funcation casino accounting funcation accounting funcat			
<ul> <li>substantions: The management of and interaction arrong various divisions of locing operations are addressed, including general management, the management addressed in club and anong the substantian addressed in club as an origination addressed in club addressed in</li></ul>			
<ul> <li>aperations are addressed, including general management, for all informations, found are composed and control, casino is accounting and funce. Focus of the course is on communication both with all managements. Available, and or HTM-2100 (ACC+220), ULX-2230, HTM-2300) (HTM-2300) (HTM-2</li></ul>			
<ul> <li>marketing, accounting and fames. Focus of the course: is no communication both within and money departments, divisions, and nosi importantly, with the consumer. <i>Prerequisite(1):</i> HAFA*200 or HTM*2100 prefative sequences of the se</li></ul>			
and anong departments, divisions, and most importunity, with the consumer. Prerequisite(1): ILAY-2100 eTHY-2100 Equat(2): HATA-2200 meTHY-2200 Equat(2): HATA-2200 meTHY-2200 Equat(2): HATA-2200 meTHY-2200 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. ITHY-230 Extriction(2): Registration in B Comm. HAFA, HAFA Co-op or Tourism Management. IT		surveillance, human resources, customer service, and specific casino operational	
<ul> <li>Prereguidaris: HAFA*2000</li> <li>HAFA*2000 Hepdatisy and Tourism Management.</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Management. Accounting EV (4-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing IT EV (5-0) (0.50)</li> <li>HTM*2000 Hepdatisy and Tourism Marketing Hesiston that hospitality management. Management.</li> <li>HTM*2000 Hepdatisy and Tourism Marketing Hesiston that hospitality management for the food and food provide and as a constanting devision for thospitality and tourism related businesses.</li> <li>Prerequisitoris : A Learner Management.</li> <li>HTM*2000 HAPA*300 HAP</li></ul>		management components. Students must be legal age of 19 or over.	
Equation:         HAFA'3060           Restriction(s):         Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.           HTM-2010 Hospitality and Tourism Management Accounting F.W. (40-10.50)           This course involves application of accounting principles to hospitality and tourism operations. Joint Courtes, hospitality and tourism, methods and accounting and maysis of internal and the signated to assisting denomes on malor matching. Account of the products and services. Course content includes the superativity in adustry. Joint Courtes, Law Coop or Tourism Management.           HTM-2000 Hospitality and Tourism Marketing IF.W (4-0) [150]           This course focuses on malor matching. decisions of the boughality management.           HTM-2000 Hospitality and Tourism Marketing HE.W (4-0) [150]           This course focuses on malor matching. Account on the hospitality and tourism related base and price accounts and dustribution system decisions for all matching beneficiang decisions of the bound of the ford management in the food and foodeeric in dustrism. The changing patterns in food ronduction and activity of resources and price accounts and dustrism related base and the fourte of cluss.           HTM-2000 Foodscient of the production of with the opplicality and tourism related base and base food in Canadia and globally are involving prediction in B. Comm. HAFA, HAFA Co-op or Tourism Management.           HTM-2000 Foodscient of the chord of the production and services.			
Restriction(s):         Registration in B.Comm. HAPA, HAPA Co-op or Tourism         Management.           HTM-2007 Hospitality and Tourism Management Accounting F.W (3-0) (0.50)         HTM-2007 Hospitality and Tourism Control, payroll courted, budgeting, and tourism operations, principles of internal countril, payroll courted, budgeting, including the unique relates the discussion of allow, for the bosin diffy industry, indus			
Management.           ITM*3070 Ilopitality and Tourism Management. Accounting Fiv (3-0) (0.50)           This course involves application of accounting microles to hospitality and tourism reactions, principles of intendi courtol, payroll courtol, budging and tourism reactions, principles of intendi courtol, payroll courtol, budging information nonagement decisions. Examples from anogement decisions. Branches for a course of the solution. Experimental regulations. prepring for a career in the hospitality account in the fold the full creates between tax-scent ethab. Fell, recells Equators in Each preprint and the future of thebs. Felleret ethab. Servement and the future of thebs. Felleret ethab. Servement and the future of thebs. Felleret ethabs. Servement and the future of these and the future of the servem tax set ethabs. Felleret ethabs. Servement and the future of these anod these and the future of these anod these anod thet			
HTM-3070 Hospitality and Tourism Management Accounting F.W (3-0) [0.50]         This course remains the effective operation and management of private clubs including city clubs, courney clubs and alticle clubs. Major triples include: the unique include in the unique include includ			
<ul> <li>This counter involves application of accounting principles to bapitality and turns operations, principles of internal control, payroll control, budgeting accounting information at the isosynality in durations operations, principles of internal control, payroll control, budgeting accounting information to management decisions. Examples from all industry segments will be eased. (Also offered through distance education format.)</li> <li>Perreguistic(j): ACEC*2220 or BLS*2220 or BLS*2220 are BLS*2220 or BLS*2220 or BLS*2220 or BLS*2220 or BLS*220 are BLS*2230 or BLS*230 or BLS*330 or BLS*330</li></ul>			
<ul> <li>accounting systems. Iteriphasizes the use of the uniform system of accounts for hospitally and tourism operations. Principles of internal control, payroll control, hudgeing, responsibility accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude in relating accounting and analysis of financial data. It is designed to assist the stude accounting and analysis of financial data. It is designed to assist the stude accounting and analysis of financial data. It is designed to assist the stude accounting accounting and analysis of financial data. It is designed to assist the stude accounting accounting relating accounting accounting and analysis of financial data. It is designed to assist the stude accounting accounting accounting relating accounting relating accounting relating accounting relating accounting relating accounting relating</li></ul>			
<ul> <li>and courism operations, principles of internal control, payoff control, budgeting, negonishily accounting and marking is of financi data. It is designed on sais the student in relating accounting information to management decisions. Examples from all indexisting accounting information to management decisions. Examples from all index to the source in a care in the club field, trends in club management and the future of clubs.</li> <li><i>Prerequisie(s):</i> ACEC*222 or BUS*2220 <i>Equate(s):</i> HAFA*300</li> <li><i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li><i>HAFA*300 Hospitality and Tourism Marketing II F.W (3-0) (0.50)</i></li> <li>This course focuses on major marketing decisions that hospitality managers face in the anding pricing, promotions, personal selling, and distribution system decisions for all marketing position in a commission all set of the interview of food in Caunada and globally are investigated. (Differed through Distance Clucation only). <i>Prerequisite(s):</i> 10/D Oursin related businesses.</li> <li><i>Prerequisite(s):</i> 10/D Corelits <i>Equate(s):</i> 10/D Coreli</li></ul>			
<ul> <li>in relating accounting information to management decisions. Examples from all industs, segments will be used. (Also offeed through distance elucation format.)</li> <li>Prerequisite(s): AGEC*220 or BUS*2200</li> <li><i>Prerequisite(s)</i>: AGEC*220 or BUS*2200</li> <li><i>Prerequisite(s)</i>: HAFA*5000</li> <li><i>Restriction(s)</i>: Registration in B.Comm. HAFA, HAFA Co-op or Tourism marketing decisions that hospitality managers face in a commercial setting.</li> <li><i>Prerequisite(s)</i>: HTM*2120</li> <l< td=""><td>and tourism operations, principles of internal control, payroll control, budgeting,</td><td>organizational structure of clubs, role of the board of directors, membership requirements,</td></l<></ul>	and tourism operations, principles of internal control, payroll control, budgeting,	organizational structure of clubs, role of the board of directors, membership requirements,	
<ul> <li>segments will be used. (Also offered through distance education format.)</li> <li><i>Prerequisite(s)</i>: AGEC42220 BIS/9220</li> <li><i>HAFA*3070</i></li> <li><i>HAFA*3070</i></li> <li><i>Registration in B.Comm. HAFA</i>, HAFA Co-op or Tourism Management.</li> <li><i>HTM*3080 Hospitality and Tourism Marketing 1F.W (As)</i> <b>(0.50)</b></li> <li><i>This course focuses on major marketing decisions that hospitality managers face.</i></li> <li><i>HTM*3080 Hospitality and Tourism Marketing the singulation and target marketing, protong, personal selling, and distribution system decisions for a discriment in the food and food excite marketing decisions for a discriment in the food and food excite marketing decisions in a Comm. HAFA, HAFA Co-op or Tourism Management.</i></li> <li><i>HTM*3080 Foodservice Operations Management FW</i> (4-6) <b>(1.00)</b></li> <li><i>Prerequisite(s):</i> I of POOD*2010, HAFA*3700, HCFA*3700, HCFA*3700, HTM*2700, HTM</li></ul>			
Equatives:         HAFA*3070           Restriction(s):         Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.           ITTM*3080 Hospitality and Tourism Marketing at Elsions that hospitality managers face in generating and sustaining demand for their products and services. Course content includes marketing stretegies and practices, segmentation and traper marketing, positioning and branding, pricing, promotions, personal selling, and distribution system decisions for all hospitality and tourism related businesses.         ITTM*3080 Recommics of Food Usage F (3-0) [0.50]           This is an overview of food supply chain management in the food and foodservice operations. Namagement is the food and foodservice operations and use of Void IC and and globally are investigated. (Offered through Distance Education only.)           Prerequisite(s):         HAFA*3080           Restriction(s):         Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.           TM*3090 Foodservice Operations Management F,W (4-6) [L100]         This course for courism, Course businesson.           The application of managerial functions to foodservice operations with the emphasis on the principles of Goad production and service in a commercial setting.         HTM*4050 Wine and Goadoms mut be of Equal chinking age in Ontario.           Restriction(s):         Restriction(s):         Restriction(s):         Restriction(s):           Restriction(s):         Restriction(s):         Restriction(s):         Restriction(s):           Restriction(s):         Restriction(s):         Restriction(s):			
Restriction(s):         Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.           HTM*3080 Hospitality and Tourism Marketing II F,W (3-0) [0.50]         IMM*3080 Hospitality and Tourism Marketing II F,W (3-0) [0.50]           This course focuses on major marketing decisions that hospitality managers face in generating and sustaining demands for their products and services. Course content includes marketing promotions, personal selling, and distribution system decisions for all hospitality and tourism related businesses.         ITM*3780 Economics of Food Usage F (3-0) [0.50]           Prerequisite(s):         HAFA*3080         Restriction(s):         Restriction(s):         Restriction(s):           Restriction(s):         Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.         ITM*4309 [Pockervice Operations Management F,W (4-6) [1.00]           The application of managerial functions to foodservice operations with the emphasize how principles of food production and service in a commercial setting.         ITM*4050 Wine and Conology F (2-2) [0.50]           This course provides students with finovaledge about the wine industry and will emphasize how begine about the wine industry and will emphasize how principles of food production and service in a commercial setting.         Prerequisite(s): 1 0 FOOD*2010, HAFA*2000, HAFA*2000, HAFA*4050           Prerequisite(s):         (HAFA*200, HAFA*200, HAFA*2000 or TIM*2200) (HAFA*2000, HAFA*2000, HAFA*2000, HAFA*3100         This course wind will emphasize how relationship age in Ontario.           Prerequisite(s):         STAT*2000         Restriction(s): Registration in B.	Prerequisite(s): AGEC*2220 or BUS*2220	Prerequisite(s): 10.00 credits	
Management.         Management.           ITTM*3080 Hospitality and Tourism Marketing elisions 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 in patients in food production, distribution, legislation and marketing strategies and practices, segmentation and target marketing. Devisioning in habits affecting the economics and use of food in Canada and globally are investigated. (Offered through Distance Education only.)           Prerequisite(s): I HA*4*300         Prerequisite(s): I of PODP*2010, HAFA*3700, HTM*2700, MCS*1000 Equate(s): I COST*3780, HAFA*3700           HTM*3090 Foodservice Operations Management F,W (4-6) [L00]         This is ourse fooride about product, purchasing, pricing, and service.           The application of managerial functions to foodservice operations with the emphasis on the principles of food production and service in a commercial setting.         HTM*4050 Wine and Oenology F (2-2) [0.50]           Prerequisite(s): I HAFA*200, HAFA*300, HAFA*300, HAFA*300, HAFA*300, HAFA*300, HAFA*300, Management. BA:C. Applied Human Nutrition.         HTM*4050 Wine and Oenology F (2-2) [0.50]           HTM*4050 Wine and Denology F (2-2) [0.50]         This course fooride study with the ombasize knowledge about product, purchasing, pricing, and service.           Prerequisite(s): I HAFA*3100         Restriction(s): Registration in B. Comm. HAFA, HAFA Co-op or Tourism (Management.           Restriction(s): Registration in B. Comm. HAFA, HAFA Co-op or Tourism (Management.         TITM*40709 Unopsclaity and Tourism Fadditina wind non-radiitional gas			
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, protioning, pricing, promotions, personal selling, and distribution system decisions for all hospitality and tourism related businesses.         Prerequisite(s):       HTM*2120         Prerequisite(s):       HTM*3080         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism the principles of food production and service in a commercial setting.         Prerequisite(s):       HTM*3090 Foodservice operations with the emphasis on the principles of food production and service in a commercial setting.         Prerequisite(s):       HAFA*3000, (HAFA*3700 or HTM*2000, (HAFA*3700 or HTM*200) (HAFA*3700 or HTM*2000)         Prerequisite(s):       HAFA*300, (HAFA*3700 or HTM*2000 or HTM*2000 or HTM*2000)         Prerequisite(s):       HAFA*300, (HAFA*3700 or HTM*2000, (HAFA*3700)         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management. B.A.Sc. Applied Human Nutrition.         HTM*400 Vince, Food and Tourism Industry W (3-0) [0.50]       This course introduces students on the sensory relationship of wine and food pairing as a hierarchical processe, gastronomic tourism. Course topics will include developing and marketing the evonomic tourism. Course topics will include developing and marketing strates.         Prerequisite(s):       HAFA*3120         Prerequisite(s):       HAFA*3120			
<ul> <li>generating and sustaining demand for their products and services. Course content includes marketing strategies and practices, segmentation and target marketing, strategies and practices, segmentation and target marketing. Jostina in B. Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3000 Foodservice Operations Management F.W (4-6) [1.00]</li> <li>The application of managerial functions to foodservice operations with the emphasis on management.</li> <li>HTM*3000 Foodservice Operations Management F.W (4-6) [1.00]</li> <li>The application of managerial functions to foodservice operations with the emphasis on management.</li> <li>HTM*3000 Foodservice Operations Management F.W (4-6) [1.00]</li> <li>The application of managerial functions to foodservice operations with the emphasis on Management.</li> <li>HAFA*3000, HAFA*3000, HAFA*3000, HAFA*3000 or HTM*2700, HTM*2700 or HTM*2700, Equate(s):</li> <li>COST*3780, HAFA*300</li> <li>HAFA*3000, HAFA*3000, HAFA*3700 or HTM*2700, Equate(s):</li> <li>COST*380, HAFA*300</li> <li>HAFA*300, Restriction(s):</li> <li>Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3100 Experiential Learning in the Hospitality and Tourism Industry W1(3-0)</li> <li>Restriction(s):</li> <li>Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3100 Keperiential Learning in the Hospitality Industry U (3-0) [0.50]</li> <li>This course protonomic lencing, coll and non-traditional gastronomic lencing, on staronomic lencing, on staronomic lencing, coll and non-traditional gastronomic lencing, coll and reaking age in Ontario.</li> <li>HTM*4000 Hospitality and Tourism reak to the subdent is coalers to the subdent consers.</li> <li>Prerequisite(s): STAT*300 in HAFA*3100</li> <li>Restriction(s): Registration in B. Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*4000 Hospitality and Tourism reak to the decided by the student is coalers in</li></ul>	HTM*3080 Hospitality and Tourism Marketing II F,W (3-0) [0.50]	HTM*3780 Economics of Food Usage F (3-0) [0.50]	
<ul> <li>marketing strategies and practices, segmentation and target marketing, positioning and honding, pricing, promotions, personal selling, and distribution system decisions for all honority and tourism related businesses.</li> <li>Prerequisite(s): HTM*2120</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3090 Foodservice Operations Management F.W (4-6) [L00]</li> <li>The application of managerial functions to foodservice operations with the emphasis on the principles of food production and service in a commercial setting.</li> <li>HAFA*3000, HAFA*3000, HAFA*3090, LAFA*3091/2</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management. B.A.Sc. Applied Human Nutrition.</li> <li>HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W(3*0)</li> <li>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 of resources will be covered. Specific areas to be studied include the nature of productivity of resources will be covered. Specific areas to be studied include the anaplication of operations research techniques.</li> <li>Prerequisite(s): STAT*200</li> <li>HAFA*3120 Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3130 Experiential Learning in the Hospitality Industry U(3*0) (0.50)</li> <li>An independent program of study formally integrating the student's co-apic Tourism Management.</li> <li>HTM*3150 Experiential Learning in the Hospitality Industry U(3*0) (0.50)</li> <li>An independent program of study formally integrating the student's co-apic Tourism Management.</li> <li>HTM*3150 Experiential Learning in the Hospitality Industry U(3*0) (0.50)</li> <li>An independent program of study formally integrating the student's co-apic co-apic intoriton of the operation of a hysical plant</li></ul>	This course focuses on major marketing decisions that hospitality managers face in		
<ul> <li>branding, pricing, promotions, personal selling, and distribution system decisions for all hospitality and tourism related businesses.</li> <li>Prerequisite(s): HTM*2120         <ul> <li>Equate(s): HAFA*3080</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> </ul> <ul> <li>HTM*3000 Foodservice Operations Management F,W (4-6) [1.00]</li> <li>Prerequisite(s): HAFA*3080 in macro food production and service in a commercial setting.</li> <li>Prerequisite(s): GOD*3780. [HAFA*3050</li> <li>HAFA*3010, HAFA*3000, Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> </ul> </li> <li>The analysis of operations in the hospitality and Tourism Industry W (340) (inproving productivity, the use of work study methods, the significance of statistica concepts and the application of perations research techniques.</li> <li>Prerequisite(s): STAT*2000 Frequences.</li> <li>Prerequisite(s): STAT*2000 Frequences.</li> <li>Prerequisite(s): STAT*2000 Frequences.</li> <li>HAFA*3120 Frequences.</li> <li>Prerequisite(s): STAT*2000 Frequences.</li> <li>Prerequisite(s): ST</li></ul>			
hospitality and tourism related businesses.       Prerequisite(s): HTM*2120         Prerequisite(s): HAFA*3080         Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.         HTM*300 Foodservice Operations Management F,W (4-6) [1.00]         The application of managerial functions to foodservice operations with the emphasize the principles of food production and service in a commercial setting.         Prerequisite(s): (HAFA*300 or HTM*300), (HAFA*3091/2         Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management, B.A.Sc. Applied Human Nutrition.         HTM*3120 Operations in the hospitality and Tourism Industry W(3-to [0.50]         The analysis of operations in the hospitality and tourism industry with the amprive productivity of resources will be covered. Specific areas to be studied include the application of operations research techniques.         Prerequisite(s): STAT*2060         Equite(s): HTM*3120 Experiental Learning in the Hospitality Industry U(3-0) (0.50]         At independent program of study formally integrating the student's academic study with a concentrated work experience. The study is to be decided by the student in consultation with the course.         Equite(s): HTM*3100         Restriction(s): Registration in B.Comm. HAFA, Co-op Co-ordinator) priori         An independent program of study formally integrating the student's academic study with a concentrated work experience. The study is to be decided by the student in consultation in the course.         Equite(s): HAFA*3100 <td< td=""><td></td><td></td></td<>			
<ul> <li>Prerequisite(s): HTM*2120</li> <li>Equate(s): HTM*210</li> <li>Equate(s): COST*3780</li> <li>HTM*300 Foodservice Operations Management F,W (4-6) [1.00]</li> <li>The application of managerial functions to foodservice operations with the emphasize knowledge about free wine industry and will emphasize knowledge about product, ynerchasing, pricing, and service.</li> <li>Prerequisite(s): (HAFA*2000 or HTM*2000, (HAFA*2700 or HTM*2700)</li> <li>Equate(s): COST*3780</li> <li>HAFA*4050</li> <li>HAFA*300, HAFA*300, HAFA*300, (HAFA*2700 or HTM*2700)</li> <li>Equate(s): COST*3780</li> <li>HAFA*3100, HAFA*300, HAFA*3700 or HTM*2700</li> <li>Equate(s): COST*3780</li> <li>HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W(3-0)</li> <li>Equate(s): COST*3780</li> <li>HTM*3120 Operations in the hospitality and tourism industry W(3-0)</li> <li>The analysis of operations in the hospitality and tourism industry W(3-0)</li> <li>The analysis of operations in the hospitality and tourism industry W(3-0)</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HAFA*3120</li> <li>Prerequisite(s): TAT*2060</li> <li>Equate(s): MAFA*3120</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*4090 Hospitality and Tourism Facilities Management and Design F,W (3-0)</li> <li>Inis course will equip an individual to work as a knowledge able member of a hospitality or tourism organization's design or re-design team. Efficient and effective space utilization for both formally integrating the student's academic study with design or re-design team. Efficient and effective spa</li></ul>			
<i>Equate(s):</i> HAFA*3080 <i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management. <b>HTM*3090 Foodservice Operations Management. HTM*4050 Wine and Oenology F (2-2) [0.50]</b> The application of managerial functions to foodservice operations with the emphasis on food production and service in a commercial setting.       Prerequisite(s): 9.00 credits <i>Prerequisite(s):</i> (HAFA*2030 or HTM*2030), (HAFA*2700 or HTM*2700) <i>Equate(s):</i> HAFA*4050 <i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.       Sudents must be of legal drinking age in Ontario. <b>HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W(3-0) HTM*4070 Wine, Food and Tourism U (2-2) [0.50]</b> This course introduces students to the sensory relationship of wine and food pairing as a hierarchical process, gastronomic tourism. Course topics will include developing and marketing the wine/food tourism product; wine and food pairing as a hierarchical process, gastronomic identity. Old and New World traditional and non-traditional gastronomic marriages. <i>Prerequisite(s):</i> HAFA*120 <i>Prerequisite(s):</i> HAFA*10 formally integrating the student's academic study with device in the supervisory faculty (normally the department's Co-op or Tourism Management. <i>MITM*3105 Experiential Learning in the Hospitality Industry U (3-0) [0.50]</i> This course will equip an individual to work as a knowledge abe meber of a hospitalility a to rourism reqaization's design or re			
Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         HTM*3090 Foodservice Operations Management.       This course provides students with knowledge about the wine industry and will emphasize         HTM*3090 Foodservice Operations Management.       File application of managerial functions to foodservice operations with the emphasis on the principles of food production and service in a commercial setting.       This course provides students with knowledge about the wine industry and will emphasize         Restriction(s):       (HAFA*3000, HAFA*3090, HAFA*3091/2       Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         Management.       BAFA*3010, HAFA*3090, IAFA*3091/2       Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         Management.       BAFA*3010, HAFA*3090, IAFA*3091/2       Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         Management.       BAFA*3120       Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         Management.       Management.       STAT*2060       Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism         Management.       Management.       ITM*4090 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 of resources will be covered. Specific areas to be studied include the nature of productivity of resurrows the subdement be fore spatiantin in B.Comm. HAFA, HAFA Co-op or Tourism			
Introluginkit.ITM*3090 Foodservice Operations Management F,W (4-6) [1.00]The application of managerial functions to foodservice operations with the emphasis on the principles of food production and service in a commercial setting.Prerequisite(s):(HAFA*2030 or HTM*2030), (HAFA*2700 or HTM*2700) (HAFA*3001.)Prerequisite(s):(HAFA*3010), HAFA*3091/2Restriction(s):Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management, B.A.Sc. Applied Human Nutrition.HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W (3-0) (0.50]The analysis of operations in the hospitality and tourism industry with the aim or 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 statistica concepts and the application in B.Comm. HAFA, HAFA Co-op or Tourism Management.HTM*3120 Experiential Learning in the Hospitality Industry U (3-0) [0.50]An independent program of study formally integrating the student in consultation with the supervisory faculty (normally integrating the student is cosened read professional d a concentrated work sepreince. The study is to be decided by the student in consultation with the supervisory faculty (normally integrating the student's co-op Co-ordinator) prior registration in the course.Equate(s):HAFA*3150 Restriction(s):Restriction(s):Registration in B.Comm. HAFA Co-op. Instructor consent required.Prerequisite(s):I of HAFA*3150 Restriction(s):Restriction(s):Registration in B.Comm. HAFA Co-op. Instructor consent required.Prerequisite(s):I of HAFA*3150 Restriction(s):Restr			
The application of managerial functions to foodservice operations with the emphasis on the principles of food production and service in a commercial setting.       Prerequisite(s):       9.00 credits <i>Prerequisite(s):</i> HAFA*3000       reading of the principles of food production and service in a commercial setting.       Prerequisite(s):       HAFA*4050 <i>Prerequisite(s):</i> HAFA*3010.       HAFA*3091/2       Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management. Students must be of legal drinking age in Ontario. <b>HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W (3-0)</b> (AFA*300)         (0.50)       This course introduces students to the sensory relationship of wine and food and the important role this process has on gastronomic tourism. Course topics will include the nature of productivity of resources will be covered. Specific areas to be studied include the nature of productivity of resources will be covered. Specific areas to be studied include the nature of productivity of resources will be covered. Specific areas to be studied include the nature of productivity of resources will be covered. Specific areas to be studied include the application of operations research techniques.       Prerequisite(s):       HTM*4090 Hospitality and Tourism Taditional gastronomic identity. Old and New World traditions, and traditional function(s):         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.       Management.       Students must be of legal drinking age in Ontario.         HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]			
The application of managerial functions to foodservice operations with the emphasis on the principles of food production and service in a commercial setting.       Equate(s):       HAFA*2030 or HTM*2030), (HAFA*2700 or HTM*2700)         Equate(s):       HAFA*3010, HAFA*2030 or HTM*2030), (HAFA*2700 or HTM*2700)       Equate(s):       HAFA*3010, HAFA*3091/2         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.       State(s):       HTM*4070 Wine, Food and Tourism U(2-2) [0.50]         This course introduces students to the sensory relationship of wine and food and the important role this process has on gastronomic tourism. Course topics will include developing and marketing the wine/food tourism product, wine and food pairing as a hierarchical process, gastronomic identity, Old and New World traditions, and traditional and non-traditional gastronomic identity. Old and New World traditions, and traditional and non-traditional gastronomic identity. Old and New World traditions, and traditional and non-traditional gastronomic marriages.         Prerequisite(s):       STAT*2060         Equate(s):       HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]         An independent program of study formally integrating the student's academic study with a concentrated work experience. The study is to be decided by the student in consultation of a physical plant including such elements as systems maintenance, appropriate use of various materials, energy management. Iffe cycle costing, and safety and security issues.         Prerequisite(s):       HAFA*3150         Restriction(s):       Registration in B.Comm. HAFA Co-op. I			
<ul> <li>Prerequisite(s): (HAFA*2030 or HTM*2030), (HAFA*2700 or HTM*2700)</li> <li>Equate(s): HAFA*3010, HAFA*3091/2</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W (3-0) [0.50]</li> <li>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.</li> <li>Prerequisite(s): STAT*2060</li> <li>Equate(s): HAFA*3120</li> <li>Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.</li> <li>HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]</li> <li>An independent program of study formally integrating the student's academic study with the supervisory faculty (normally the department's Co-op Co-ordinator) prior registration in the course.</li> <li>Equate(s): HAFA*3150</li> <li>Equate(s): HAFA*3150</li> <li>Restriction(s): Registration in B.Comm. HAFA Co-op. Instructor consent required.</li> <li>Prerequise(s): I of HAFA*3090, HAFA*3091/2</li> <li>Equate(s): HAFA*3150</li> <li>Restriction(s): Registration in B.Comm. HAFA Co-op. Instructor consent required.</li> </ul>		Equate(s): HAFA*4050	
Equate(s):       HAFA*3010, HAFA*3090, HAFA*3091/2         Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management, B.A.Sc. Applied Human Nutrition.       HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W (3-0)         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 application of operations research techniques.       HTM*3120 Operations and traditional gastronomic identity, Old and New World traditional and non-traditional gastronomic identity, Old and New World traditional and non-traditional gastronomic identity. Old and New World traditional gastronomic identity. Signature of productivity, the use of work study methods, the significance of statistical concepts and the application of operations research techniques.       Prerequisite(s): HTM*3030         Prerequisite(s):       STAT*2060       HTM*4070 U(3-0) [0.50]         An independent program of study formally integrating the student's academic study with the supervisory faculty (normally the department's Co-op Co-ordinator) prior to registration in the course.       HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]         An independent program of study formally integrating the student is 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.       HTM*4070 Wine, Food and Tourism Tufuety OI (2-2) [0.50]         An independent program of study formally integrating the student in consultation with the supervisory faculty (normally the department's Co-op Co-ordinator) prior to regi	the principles of food production and service in a commercial setting.		
Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management, B.A.Sc. Applied Human Nutrition.         HTM*3120 Operations Analysis in the Hospitality and Tourism Industry W (3-0) [0.50]       This course introduces students to the sensory relationship of wine and food and the important role this process has on gastronomic tourism. Course topics will include developing and marketing the wine/food tourism product, wine and food pairing as a hierarchical process, gastronomic identity, Old and New World traditional and non-traditional gastronomic identity, Old and New World traditional marketing the wine/food tourism product, wine and food pairing as a hierarchical process, gastronomic identity, Old and New World traditional marketing the wine/food tourism product, wine and food pairing as a hierarchical process, gastronomic identity, Old and New World traditional marketing the subjection of operations research techniques.         Prerequisite(s):       STAT*2060 Equate(s):         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.         HTM*4000 Hospitality and Tourism Facilities Management and Design F,W (3-0) [0.50]         An independent program of study formally integrating the student's academic study with a concentrated work experience. The study is to be decided by the student is consultation with the supervisory faculty (normally the department's Co-op Co-ordinator) prior to registration in the cour			
Management, B.A.Sc. Applied Human Nutrition.HTM*3120 Operations Analysis in the Hospitality and Tourism Industry 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.This course introduces students to the sensory relationship of wine and food and the 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.This course introduces students must be of legal drinking age in Ontario. <i>Prerequisite(s):</i> STAT*2060 <i>Equate(s):</i> HAFA*3120 <i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.Management.HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [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. <i>Prerequisite(s):</i> HAFA*3150 <i>Restriction(s):Restriction(s):</i> Registration in B.Comm. HAFA Co-op. Instructor consent required. <t< td=""><td></td><td>Management. Students must be of legal drinking age in Ontario.</td></t<>		Management. Students must be of legal drinking age in Ontario.	
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	Equate(s):       HAFA*3010, HAFA*3090, HAFA*3091/2         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management, B.A.Sc. Applied Human Nutrition.         HTM*3120 Operations Analysis in the Hospitality and Tourism Industry 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):       STAT*2060         Equate(s):       HAFA*3120         Restriction(s):       Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.         HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]         An independent program of study formally integrating the student's academic study with a concentrated work experience. The study is to be decided by the student in consultation with the supervisory faculty (normally the department's Co-op Co-ordinator) prior to registration in the course.         Equate(s):       HAFA*3150	Management. Students must be of legal drinking age in Ontario. <b>HTM*4070 Wine, Food and Tourism U (2-2) [0.50]</b> This course introduces students to the sensory relationship of wine and food and the important role this process has on gastronomic tourism. Course topics will include developing and marketing the wine/food tourism product, wine and food pairing as a hierarchical process, gastronomic identity, Old and New World traditions, and traditional and non-traditional gastronomic marriages. <i>Prerequisite(s):</i> HTM*3030 <i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management. Students must be of legal drinking age in Ontario. <b>HTM*4090 Hospitality and Tourism Facilities Management and Design F,W (3-0) [0.50]</b> 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. <i>Prerequisite(s):</i> 1 of HAFA*3090 , HTM*3090, HAFA*3091/2 Equate(s):	

HTM*4100 Organizational Behaviour II F,W (3-0) [0.50]	HTM*4170 International Tourism Development and Management W (3-0) [0.50]
This course is concerned with the structure and dynamics of organizational open systems.	This course encourages students to develop a cross-cultural awareness of the objectives
It focuses on the external environment, technology, structure (and their interrelationships),	and issues regarding the development of tourism as well as the trends that shape the
organizational culture and change management. It addresses the actions that managers	various sectors of the hospitality and tourism industry in every region of the world.
must take to insure that behaviour within the organization aids rather than impedes the	Students will be introduced to a variety of multinational tourism policies as well as
achievement of overall organizational goals.	strategic and structural approaches to the development of the industry through readings,
Prerequisite(s): 14.00 credits, (HAFA*2200 or HTM*2200), (HAFA*3000 or	case studies and presentations.
HTM*3000)	Prerequisite(s): 1 of HAFA*3100, HTM*2050, HTM*3100
<i>Equate(s):</i> HAFA*4100	Equate(s): HAFA*4170
<i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op, Human Resource	Restriction(s): Registration in B.Comm. Tourism Management.
Management or Tourism Management. HTM*4110 Restaurant Operations U (1-7) [0.50]	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
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,	hospitality and tourism operational issues. Significant decision points and sub-system interrelationships are emphasized.
total service package, and the dynamic relationship between service and the product of	Prerequisite(s): (HAFA*3070 or HTM*3070), (HAFA*3080 or HTM*3080)
food and wine). Emphasis is placed upon creativity and authenticity in menu formulation,	<i>Co-requisite(s):</i> (HAFA*5070 of HTM*5070), (HAFA*5080 of HTM*5080)
operational performance and guest satisfaction.	Equate(s): HAFA*4190
Prerequisite(s): 1 of HAFA*3090, HTM*3090, HAFA*3091/2	<i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism
Equate(s): HAFA*4110	Management.
<i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.	HTM*4200 Policy Issues in Hospitality and Tourism Management F,W (3-0) [0.50]
HTM*4120 Entrepreneurship in Hospitality and Tourism U (3-0) [0.50]	An integrative course intended to draw together the several disciplines in which hospitality
This course investigates the development of entrepreneurial and intrapreneurial activities	and tourism management is based. Conceptual, analytical and decision-making skills will be developed through an extensive exposure to case studies.
in the context of small business development and ownership in the hospitality and food	
service industries. Major topics include: entrepreneurship, intrapreneurship, business	<i>Prerequisite(s):</i> (AGEC*3320 or BUS*3320), (HAFA*3070 or HTM*3070), (
ownership models, business plan development and specific operating factors that influence	HAFA*3080 or HTM*3080) Equate(s): HAFA*4200
success as a small business.	Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism
Prerequisite(s): 1 of AGEC*2230, BUS*2230, HAFA*3070, HTM*3070	Management.
<i>Equate(s):</i> HAFA*4120	HTM*4300 Co-operative Education Seminar F (3-0) [0.50]
Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism	An integration of the students' academic studies with their work semester experiences
Management. HTM*4130 Current Management Topics U (3-0) [0.50]	provided by the co-operative program. Emphasis will be placed on students critically
Principal operating problems in the hospitality and tourism industry are analyzed and	evaluating the application of theoretical concepts in different working environments.
discussed using actual case studies. Students should check with the School of Hospitality	Prerequisite(s):Registration in semester 7 of B.Comm. HAFA Co-op.Equate(s):HAFA*4300
and Tourism Management to determine what topic will be offered during specific	HTM*4390 Individuals and Groups in Organizations F,W (3-0) [0.50]
semesters, and which prerequisites, if any, are appropriate.	The course serves as an overview to organizational behaviour. It examines the individual,
Equate(s):HAFA*4130Restriction(s):Registration in B.Comm. HAFA, HAFA Co-op or Tourism	the group, the organization and how the three interrelate in order to enhance performance
Management.	and productivity.
HTM*4140 Current Management Topics U (3-0) [0.50]	Prerequisite(s): 10.00 credits
Principal operating problems in the hospitality and tourism industry are analyzed and	<i>Equate(s):</i> HAFA*4390 <i>Restriction(s):</i> Not available to students registered in B.Comm. HAFA, HAFA Co-op,
discussed using actual case studies. Students should check with the School of Hospitality	Human Resources Management or Tourism Management. Priority
and Tourism Management to determine what topic will be offered during specific	Access course. Enrolment is restricted to particular programs or
semesters, and which prerequisites, if any, are appropriate.	specializations. See department for more information.
Equate(s): HAFA*4140	HTM*4500 Special Study in Hospitality and Tourism U (3-0) [0.50]
<i>Restriction(s):</i> Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management.	The special study option is designed to provide senior undergraduate students with an
HTM*4150 Current Management Topics U (3-0) [0.50]	opportunity to pursue an independent course of study. The topic selected will be
Principal operating problems in the hospitality and tourism industry are analyzed and	determined by agreement between the student and the faculty member with expertise in the area.
discussed using actual case studies. Students should check with the School of School of	
Hospitality and Tourism Management to determine what topic will be offered during	Equate(s):HAFA*4500Restriction(s):Registration in B.Comm. HAFA, HAFA Co-op or Tourism
specific semesters, and which prerequisites, if any, are appropriate.	Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism Management and instructor consent.
Equate(s): HAFA*4150	
Restriction(s): Registration in B.Comm. HAFA, HAFA Co-op or Tourism	
Management.	
HTM*4160 Human Resources Planning W (3-0) [0.50]	
Introduces the strategic planning role that human resources professionals play in	
organizations. Students will confront the challenges and demands of rightsizing, technological change, corporate repositioning, cost containment, productivity	
improvements, and the consequences of relocation, outplacement and retraining of staff.	
An understanding of the essential elements of the human resource planning process in	
organizations will be provided. Students will acquire knowledge in analyzing, assessing	
and programming for the human resource requirements of organizational, business and	
strategic plans.	
<i>Prerequisite(s):</i> (HAFA*2200 or HTM*2200), (HAFA*3000 or HTM*3000)	
Equate(s):       HAFA*4160         Restriction(s):       Registration in B.Comm. Human Resources Management.	

# **Human Kinetics**

Department of Human Health and Nutritional Sciences

## HK\*2100 Anatomy for Artists W (3-3) [0.50]

The structure of the human body will be considered in this course. The limitations imposed by bones, joints and muscle will be explored in relation to capacity of the human figure to move and to express emotion. This course has been designed for students registered in the Studio Arts program. This course can fulfill one of the natural and mathematical sciences requirements for students in SART, but it cannot be used towards the SART major.

Prerequisite(s):SART\*2090Restriction(s):Restricted to Studio Arts majors.

## HK\*2270 Principles of Human Biomechanics W (3-1) [0.50]

Application of mechanical principles to the study of human movement. Topics include: motion analysis techniques, anthropometrics, biological tissue tolerance, muscle force generation, static and dynamic equilibrium, work/energy and impulse/momentum as they apply to the description of motion, injury of musculoskeletal tissues and optimization of human performance.

*Prerequisite(s):* PHYS\*1000 or PHYS\*1080

HK\*3100 Neuromuscular Physiology W (3-0) [0.50]

Normal muscle movement is controlled by the motor cortex or by reflexes within the context of the sensory environment. This course will introduce key concepts in motor control of mammalian, human movement, coordination of movement, motor program selection, motor program execution, motor unit recruitment, skeletal muscle excitation-contraction coupling. This course is required for students wishing to gain certification by the Ontario Kinesiology Association.

 Prerequisite(s):
 1 of BIOM\*3100, HK\*3940, ZOO\*3200

 Restriction(s):
 Restricted to B.Sc., Major in Human Kinetics or Neuroscience Minor.

## HK\*3401 Human Anatomy F (3-3) [0.75]

First part of the two-semester course HK\*3401/2. Refer to HK\*3401/2 for course description.

*Co-requisite(s):* HK\*3940 or instructor consent

*Restriction(s):* Registration in the B.Sc. Major in Human Kinetics or Bio-Medical Science. Instructor consent required.

# HK\*3401/2 Human Anatomy F-W [1.50]

A two-semester lecture and laboratory course in human anatomy which includes a detailed study of the skeleton, upper and lower limbs, thorax, abdomen, pelvis, perineum, head, neck and central nervous system. This is a two-semester course offered over consecutive semesters. When you select it you must select HK\*3401 in the Fall semester and HK\*3402 in the Winter semester. A grade will not be assigned to HK\*3401 until HK\*3402 has been completed.

Co-requisite(s): HK\*3940 or instructor consent

*Restriction(s):* Registration in the B.Sc. Major in Human Kinetics or Bio-Medical Science. Instructor consent required

#### HK\*3402 Human Anatomy W (3-3) [0.75]

Second part of the two-semester course HK\*3401/2. Refer to HK\*3401/2 for course description.

Prerequisite(s): HK\*3401

## HK\*3600 Applied Human Biology F (2-3) [0.75]

Laboratory techniques which are central to human biology are covered, 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 or permission of instructor

 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\*2210

# HK\*4070 Clinical Biomechanics F (2-2) [0.50]

This course covers functional anatomy, neurophsiology 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 Biology 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\*4320 Work Physiology W (3-3) [0.75]

The adjustments made by the physiological regulatory systems in response to common human activities will be identified and discussed. This will include an examination of limiting factors within each system.

Prerequisite(s): HK\*3940 or instructor consent

## HK\*4360 Research in Human Biology 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 Biology and Nutritional Sciences II S,F,W (0-6) [0.50]

First part of the two-semester course HK\*4371/2. The student will select a research topic and design and complete a project in an area of interest, in consultation with a faculty advisor. This is a two-semester course offered over consecutive semesters. When you select it you must select HK\*4371 in the first semester and HK\*4372 in the second semester. A grade will not be assigned to HK\*4371 until HK\*4372 has been completed. 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 Biology and Nutritional Sciences II S-F,F-W,W-S [1.00]

The student will select a research topic and design and complete a project in an area of interest, in consultation with a faculty advisor. This is a two-semester course offered over consecutive semesters. When you select it you must select HK\*4371 in the first semester and HK\*4372 in the second semester. A grade will not be assigned to HK\*4371 until HK\*4372 has been completed. Students must make arrangements with both a faculty advisor and the course coordinator at least one semester in advance and the signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the student is registered for the course.

 Prerequisite(s):
 12.00 credits

 Restriction(s):
 Course coordinator consent required.

# HK\*4372 Research in Human Biology 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\*4410 Research Concepts F (3-0) [0.50]

An introduction to the research process in modern integrative biology and biomedical sciences. The course explores, through lectures, tutorials and practica, the theory and practice of scientific experimentation and communication.

*Prerequisite(s):* 12.00 credits

#### 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) or instructor consent

## HK\*4540 Cardio-respiratory Laboratory W (1-2) [0.25]

This lab-based course will provide the student with a knowledge of classical and recent techniques for cardio-respiratory data collection. Cardio-respiratory responses to increased metabolic demand are a major focus. The lab is comprised of regular lab exercises and small group projects.

Prerequisite(s): HK\*3940

#### HK\*4550 Human Cardio-respiratory Physiology W (4-0) [0.75]

The central focus 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, instructor consent

#### 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

# Humanities

#### College of Arts

#### HUMN\*2100 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 will provide background and context for the plays. Lectures and texts are in English. This course is offered in conjunction with ITAL\*2100. (Offered in odd-numbered years.)

Restriction(s): ITAL\*2100, ITAL\*3280

# HUMN\*3020 Myth and Fairy Tales in Germany F (3-0) [0.50]

The course explores the role of mythology, fairy tales and legends in late 18th- and 19thcentury German literature and culture in the context of socio-political developments. Topics may include the formation of a national identify, 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. Students registered in GERM\*3020 will meet a fourth hour per week to discuss texts in German. This course is offered in conjunction with GERM\*3020. (Offered in even-numbered years.)

Prerequisite(s):5.00 creditsEquate(s):GERM\*3020Restriction(s):GERM\*3440, HUMN\*3440

HUMN\*3100 London Studies in the Humanities W (2-3) [0.50]

An integrated course of studies in the Humanities (including 2 or more of theatre, visual arts, history, music, literature and philosophy) as they relate to London cultural resources. For London Semester students only.

*Prerequisite(s):* Admission to London Semester.

### HUMN\*3150 Paris Studies in the Humanities W (2-3) [0.50]

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.

#### *Prerequisite(s):* Admission to Paris Semester.

## HUMN\*3160 Contemporary Latin American Fiction W (3-0) [0.50]

This course will examine, in English, why and how the leading figures, such as Borges, Cortazar, Garcia Marques, Carpentier, Isabel Allende, and Luisa Valenzuela have "made" history, not only in the way they have recreated the Latin American historical reality, but also in the way they have reformed the Hispanic literature. Two lectures per week in English and one seminar per week in Spanish. Final essay and examination will be in English, short presentations and compositions will be in Spanish. Students who select the course under the listing of HUMN\*3160 will attend the first two hours. They will write a research essay. (Offered in odd-numbered years.)

*Equate(s):* SPAN\*3160

## HUMN\*3170 Women, Virtue and Honour in Spanish Drama F (3-0) [0.50]

This is a topic-oriented course which will study, in English, major Spanish dramas: seventeenth-century works such as Lope de Vega's Fuenteovejuna, Calderon's Life is a Dream, Tirso de Molina's Don Juan, and twentieth-century plays such as Garcia Forca's The House of Bernarda Alba and Blood Wedding. In addition to the thematic focus, these texts will be studied for their artistic merit and for the specificity of the Spanish "comedia". Where appropriate, this course will also discuss the influence of Spanish themes on the European culture. Students who select the course under the listing of SPAN\*3170 will do selected readings and assignments in Spanish.

*Equate(s):* SPAN\*3170

### HUMN\*3210 Introduction to Polish History and Culture F (6-4) [1.00]

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.

*Prerequisite(s):* Admission to Krakow Semester.

## HUMN\*3220 Krakow Studies in the Humanities I F (3-2) [0.50]

An integrated course of studies in the humanities as they relate to the resources of Krakow, Poland. For Krakow Semester students only.

*Prerequisite(s):* Admission to the Krakow Semester.

## HUMN\*3230 Krakow Studies in the Humanities II F (3-2) [0.50]

An integrated course of studies in the humanities as they relate to the resources of Krakow, Poland. For Krakow Semester students only.

*Prerequisite(s):* Admission to the Krakow Semester.

#### HUMN\*3240 India Studies in the Humanities W (3-0) [0.50]

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.

Prerequisite(s): Admission to the India Semester.

## HUMN\*3300 Latin American Studies in the Humanities W (1-2) [0.50]

An integrated course of studies in the humanities as they relate to the resources of Latin America.

Prerequisite(s): Admission to the Latin America semester, consent of the instructor and satisfactory participation in a bi-weekly preparation seminar during the fall semester.

HUMN\*3450 20th Century German Literature and Film F (3-0) [0.50]

This course considers significant social, political, and artistic events and movements of the 20th century in German-speaking countries as reflected in film and literature. Topics may include fin de siècle, expressionism, decadence, gender relations, National Socialism, holocaust, GDR, war, post-war society. Filmmakers may include R. W. Fassbinder, S. Kubrik, F. Lang, L. Visconti, V. Schlöndorff. Authors may include T. Mann, F. Kafka, C. Wolff, H. Hesse. Lectures and texts are in English. Students who wish for a German credit must register for GERM\*3450. (Offered in odd-numbered years.)

Prerequisite(s):5.00 creditsEquate(s):GERM\*3450

#### HUMN\*3460 Women in 18th & 19th Century German Lit. W (3-0) [0.50]

This course is a study of changing images and social roles of women as represented in literary texts by and about women. It will consider the contribution of women to the literary life and cultures of German speaking countries and explore myths and misconceptions regarding women by addressing questions of image and reality. Lectures and texts are in English. Students who want a German credit must be registered in GERM\*3460. (Offered in even-numbered years)

*Prerequisite(s):* 5.00 credits

Restriction(s): GERM\*3460

# HUMN\*3470 Holocaust & WWII in German Lit. & Film W (3-0) [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 Lectures and discussions are in English. Students who wish for a German credit must register for GERM\*3470. (Offered in odd-numbered years.) (First offering - Winter 2009)

*Prerequisite(s):* 5.00 crecits

Restriction(s): GERM\*3470

#### HUMN\*3501 Independent Interdisciplinary Research Project F (3-0) [0.50]

First part of the two-semester course HUMN\*3501/2. Refer to HUMN\*3501/2 for course description.

*Restriction(s):* Instructor consent required.

HUMN\*3501/2 Independent Interdisciplinary Research Project F-W [1.00]

A two-semester course designed for students enrolled in the B.A. program in 1 of the College of Arts disciplines. Students in a general program with no major must seek the approval of the B.A. program counsellor. Students will prepare proposals for independent research projects spanning 2 or more disciplines, at least 1 of which must be from the College of Arts, and arrange for faculty members representing at least 2 of these disciplines to provide supervision. Projects are subject to the approval of the department(s) or school(s) concerned and must be submitted to the appropriate chair(s) or director(s) by the end of the course selection period prior to beginning the course. Subject to approval, this course may be accepted as credit towards an honours major in Art History, Drama, English, Studio Art, French, History, German, Italian, Spanish, Classical Languages, Classical Studies, Music and Philosophy. This is a two-semester course offered over consecutive semesters. When you select it you must select HUMN\*3501 in the Fall semester and HUMN\*3502 in the Winter semester. A grade will not be assigned to HUMN\*3501 until HUMN\*3502 has been completed.

HUMN\*3502 Independent Interdisciplinary Research Project W (3-0) [0.50]

Second part of the two-semester course HUMN\*3501/2. Refer to HUMN\*3501/2 for course description.

## HUMN\*4170 Don Quixote and the Picaresque Novel F (3-0) [0.50]

This course will study, in English, the importance of this Spanish masterpiece in the development of the modern European novel, and it will examine the first European picaresque work, Lazarillo de Tormes, in the light of the picaresque tradition which followed in Europe and the Americas. The course will also concentrate on the notion of play and laughter (Bakhtin) as means of survival. Students who select the course under the listing of SPAN\*4170 will do selected readings and assignments in Spanish.

*Equate(s):* SPAN\*4170

# **Interdisciplinary Physical Science**

IPS*4001 Chem	ical Physics Research Project F (0-9) [0.75]	
First part of the description.	two-semester course IPS*4001/2. Refer to IPS*4001/2 for course	
_	(CHEM*3870 or CHEM*4880), PHYS*3100 (of which CHEM*3870 may be taken concurrently)	
Restriction(s):	Instructor consent required.	
IPS*4001/2 Che	mical 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): Restriction(s):	(CHEM*3870 or CHEM*4880), PHYS*3100 (of which CHEM*3870 may be taken concurrently)	
	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**

College of Social and Applied Human Sciences

# ISS\*2000 Asia U (3-0) [0.50]

This course will survey China and/or India, noting the major historical trends, cultural factors, economic systems, and political institutions and political processes. Department of Political Science. ISS\*2500 Management in Organizations W (3-0) [0.50] A first course in management designed to consider the management of any organization whether profit-motivated or non-profit, private or public, from the perspective of the social sciences. School of Hospitality and Tourism Management. Restriction(s): HTM\*2200 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. Admission to the London Semester. Restriction(s): 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. Admission to the Krakow Semester. Restriction(s): 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. Admission to Krakow Semester. Restriction(s): 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. Admission to the India Semester. Restriction(s): 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 ISS\*4000 Research Project in Environmental Studies F,W (3-0) [0.50] This course is required of all senior students in the Environmental Studies Minor. It provides an opportunity to formulate and investigate an issue of environmental concern from an integrative human and biophysical perspective. Students must consult with the Environmental Studies co-ordinator before course selection. Department of Geography. Restriction(s): Registration in the Environmental Studies minor and 4.00 credits in the minor.

# **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 fulfil particular program distribution requirements, students should contact their program counsellor. A list of current and archived offerings is available by following the links on the First Year Seminars web page.

Restriction(s): Fewer than 5.00 credits.

## UNIV\*1250 Experiential Learning Opportunity I: Peer Helper U (0-0) [0.00]

Open only to students who have been accepted into the Peer Helper program. This 0.00 credit course recognizes the successful completion of the Peer Helper training program and a supervised field experience in an approved Peer Helper placement. A pass/fail grade will 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.

*Restriction(s):* Instructor consent required and acceptance in the Peer Helper program.

#### UNIV\*1260 Experiential Learning Opportunity II: Peer Helper U (0-0) [0.00]

Open only to students who have been accepted into the Peer Helper program. This 0.00 credit course recognizes the successful completion of the Peer Helper training program and a supervised field experience in an approved Peer Helper placement. A pass/fail grade will be assigned at the end of the completion of both UNIV\*1250 and UNIV\*1260. Student who wish to enroll in this course should see Student Life and Career Services for more information.

Prerequisite(s): UNIV\*1250

UNIV\*2000 Foundations of Leadership 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. (Offered through distance education format only.)

*Restriction(s):* Instructor consent required.

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 water and our use of energy, and will lead the student to a detailed consideration of the future. (Offered through distance education format only.)

#### 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\*3010 University Studies in London I S (3-0) [0.50]

An intensive and integrated course of study in the arts, social sciences and/or sciences as they relate to the resources of London. For London Summer Session students only. *Prerequisite(s):* Admission to the London Summer Session.

#### UNIV\*3020 University Studies in London II S (3-0) [0.50]

An intensive and integrated course of study in the arts, social sciences and/or sciences as they relate to the resources of London. For London Summer Session students only. *Prerequisite(s):* Admission to the London Summer Session.

UNIV\*3150 University Studies in Paris I W (2-3) [0.50]

An integrated course of study in subject areas that will vary from year to year but relate to resources in Paris.

Prerequisite(s): Admission to the Paris Semester.

UNIV\*3160 University Studies in Paris II W (2-3) [0.50]

An integrated course of study in subject areas that will vary from year to year but relate to resources in Paris.

*Prerequisite(s):* Admission to the Paris Semester.

UNIV\*3170 University Studies in Paris III W (2-3) [0.50]

An integrated course of study in subject areas that will vary from year to year but relate to resources in Paris.

Prerequisite(s): Admission to the Paris Semester.

## UNIV\*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\*4000 Leadership Capstone W (3-0) [0.50]

Changes taking place in organizations and work, and the advanced level, general skills needed by university graduates in the workplace will be explored. In addition, transition issues, such as the change from the role of 'student' to 'employee' or 'entrepreneur', will be examined. Based on experience in their leadership placements, students will examine the relationships between leadership theory and practice. Students will be encouraged to study leadership issues that relate to professions in the disciplines. They will work on an action project that will involve researching creative approaches to leadership issues. This is a required course for the Certification Leadership. (Offered through distance education format only.)

*Prerequisite(s):* UNIV\*2000 plus 120 hours of placement experience. *Restriction(s):* Instructor consent required.

# **Integrative Biology**

Integrativ	8/
IBIO*4010 Ada	ptational Physiology W (3-0) [0.50]
environments. A physiological, t adaptations of d	amines adaptations of organisms to various aquatic and terrestrial mechanistic approach will be used to establish the strategies (anatomical, biochemical) of environmental adaptation. Examples will include leep-sea and polar organisms, adaptations to salinity and desiccation gen availability, sensory adaptations and symbiotic adaptations. ZOO*3210 ZOO*4390, ZOO*4560
IBIO*4500 Res	earch in Integrative Biology I F,W (1-5) [0.75]
nature that relate is conducted und with both a facul A departmental	undertake an independent research project of a practical or theoretical estimates either to organismal biology or the teaching of organismal biology and er the supervision of a faculty member. Students must make arrangements ty supervisor and the course coordinator at least one semester in advance. registration form must be obtained from the course coordinator and er than the second class day of the semester in which the project is to be
Equate(s): Restriction(s):	ZOO*4490, ZOO*4500, BOT*4820 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 Res	earch in Integrative Biology II F,W (1-5) [0.75]
nature that relate is conducted und with both a facul A departmental	undertake an independent research project of a practical or theoretical es either to organismal biology or the teaching of organismal biology and er the supervision of a faculty member. Students must make arrangements ty supervisor and the course coordinator at least one semester in advance. registration form must be obtained from the course coordinator and er than the second class day of the semester in which the project is to be
Prerequisite(s): Equate(s): Restriction(s):	IBIO*4500 ZOO*4510, BOT*4830 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.

# **International Development**

	_
IDEV*2010 Inte	ernational Development Studies W (3-0) [0.50]
various researche emphasis will be undergraduate C the implications f complete this c	to a broad range of topics in international development as studied by ers and from perspectives of different social-science disciplines. Special e placed on research arising from the seven areas of emphasis in the IDS program, the integration of diverse disciplines and paradigms, and for public policy. Students in the International Development major should ourse before semester five. Students who do not have the stated y seek approval from the faculty advisor for International Development
Prerequisite(s): Restriction(s):	(ANTH*1150 or ECON*1050), (POLS*2080 or ENVS*2010) Registration in the International Development major, minor or area of concentration or in the Development & Stewardship area of concentration for B.Sc.(Env.) or in the International Trade and Development area of emphasis for B.A.APEC.
IDEV*3010 Cas	e Studies in International Development W (3-0) [0.50]
An in-depth exar	nination of select case studies in international development.
Prerequisite(s): Restriction(s):	10.00 credits including IDEV*2010 Registration in B.A. International Development major. 68% average in all course attempts in the International Development core.
IDEV*3200 Indi	ividual Work/Study in International Development S,F,W (3-0) [0.50]
with their acader at international d (in Canada and a other practica of appropriate expe- faculty member v	ended for students who seek to combine work and study in development nic course work. It may be used in connection with internships or work evelopment agencies or other appropriate businesses and organizations abroad), for research and/or experience in a developing country, or for r programs. Any faculty member at the University of Guelph with rtise may supervise the work/study project. In each case, the student and will agree on an outline of the work/study project and evaluation criteria. roject will involve a writing component.
-	10.00 credits Written approval of the faculty advisor for International Development.
IDEV*4190 Reg	ional Context S,F,W (1.5-0) [0.25]
In this course stu advanced work/s	idents will learn about a region that they intend to study further in an tudy project (IDEV*4200) or in a structured semester abroad. It may be ing course or as a seminar.
Prerequisite(s): Restriction(s):	10.00 credits including IDEV*2010 Written approval of the faculty advisor for International Development.
IDEV*4200 Adv	vanced Work/Study in International Development S,F,W (3-0) [0.75]
Individual work/s Prerequisite(s): Restriction(s):	study option at an advanced level. See IDEV*3200 for course description. IDEV*4190 Written approval of the faculty advisor for International Development.
IDEV*4500 Inte	ernational Development Seminar F,W (3-0) [0.75]
This course bring study to examine in the specializat perspectives in le students develop concerns.	gs together students in international development in their final year of key debates and to integrate knowledge from different areas of emphasis ion. Students draw from a variety of disciplinary and inter-disciplinary ctures, text-based seminars and in reaction to guest speakers. In addition, and present research projects which focus theoretical insight on practical
Prerequisite(s): Restriction(s):	15.00 credits Registration in B.A. International Development major. 68% average in all course attempts in the International Development core. Written approval of the faculty advisor for International Development.

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 OAC Italian or equivalent.)

## 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\*2060 Intermediate Italian I F (3-0) [0.50]

Italian grammar and syntax, composition and translation.

#### Prerequisite(s): ITAL\*1070 or OAC Italian

ITAL\*2070 Intermediate Italian II W (3-0) [0.50]

Continuation of ITAL\*2060. Increased emphasis on composition and translation.

#### 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]

A seminar course in Italian grammar and syntax, composition and translation. (Offered in odd-numbered years.)

*Prerequisite(s):* ITAL\*2070

#### 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

# 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.) (First offering is Winter 2008.)

*Prerequisite(s):* ITAL\*2070 or permission of instructor *Restriction(s):* ITAL\*2350

## ITAL\*3950 Topics in Italian Literature F,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.)

### ITAL\*3960 Topics in Italian Literature F,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.)

## ITAL\*3970 Topics in Italian Literature F,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.)

#### 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	LARC*3050 Landscape Architecture I W (2-4) [0.75]	
School of Environmental Design and Rural Development	Lectures and projects emphasizing the integration of design theory, skills and knowledge	
LARC*1100 Design and Communications Studio F (3-3) [0.75]	using site scale and urban design projects. Highlighting the use of contemporary history. <i>Prerequisite(s):</i> LARC*3040	
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.	LARC*3060 Landscape Architecture II F (2-4) [0.75] Application of the landscape architectural design process to conservation, development	
<i>Prerequisite(s):</i> Registration in the B.L.A. program.	and rehabilitation of landscapes. Projects at an intermediate scale focusing on biophysical,	
Restriction(s): Instructor consent required.	cultural and visual resources as primary design determinants. Emphasis on secondary	
LARC*1210 Graphic Communication W (2-4) [0.50]	research, analysis, program development, alternative concepts and design master planning.	
The communication process and its application to landscape architectural design are	Prerequisite(s): LARC*3050	
introduced. This course includes skills and techniques of graphic communication, from	LARC*3070 Landscape Architecture III F (2-6) [1.00]	
study sketches to final presentation drawings and media ranging from pencil graphics to multi-media presentations.	Exercises in regional scale design and master planning to provide an understanding of the integrative design process that considers ecological, technological, socio-economic,	
Restriction(s): Registration in the B.L.A. program.	human and aesthetic factors in the land development process. Projects focus on land	
LARC*1950 History of Cultural Form I F (4-0) [0.50]	planning, community design, urban design, and public involvement and communication.	
This course explores the cultural form expressed in landscapes from ancient times to the	Prerequisite(s): LARC*3060	
18th century Romantic movements. (Offered through distance education format only.)	LARC*3430 Landscape Construction I W (2-4) [0.50]	
LARC*2020 Design Studio W (2-4) [0.75]	Lectures and studio exercises that integrate construction documentation with design. The	
An examination of the theory, process and vocabulary of spacial design. An exploration	technical procedures needed to direct design implementation including layout, grading, utility design, and planting plans.	
of the social, psychological, and behavioural forces a designer must respond to. An	Prerequisite(s): LARC*2410	
introduction to landscape analysis.	LARC*3440 Landscape Construction II F (2-4) [0.75]	
Prerequisite(s): LARC*1100 Restriction(s): Registration in the B.L.A. program.	Production of construction drawings, documents and cost estimates using computer and	
	manual techniques.	
LARC*2100 Landscape Analysis F (2-2) [0.50] A study of biophysical factors and their influence on design. Including soils, climate,	Prerequisite(s): LARC*3430	
vegetation, hydrology, and fauna. Natural and cultural systems interpretation, site	Co-requisite(s): LARC*3060	
assessment methods, and data presentation techniques will be outlined. Students will	LARC*3500 Independent Study S,F,W (0-6) [0.50]	
formulate and conduct site assessments that include resource inventories and the analysis for land use suitability.	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): BIOL*1030, LARC*2020	Prerequisite(s): LARC*3040	
<i>Co-requisite(s):</i> LARC*3040 or registration in the U.L.M. B.Sc. (Agr.) program and		
5.00 credits	LARC*4090 Seminar W (3-0) [0.50] An integrated overview of professional issues involving practice, ethics, environmental	
LARC*2330 Planting Design I W (1-2) [0.25]	concerns, government policy, research needs and professional responsibilities to society.	
Visual and physical characteristics of plants and their use. Design theory and its application	Emphasis on writing and oral presentations.	
at a site specific scale. Study of the use of plants in a wide range of applications.	Prerequisite(s): LARC*3060	
<i>Co-requisite(s):</i> LARC*2020	LARC*4101 Design Thesis F (1-2) [0.50]	
LARC*2340 Planting Design II F (1-2) [0.25]	First part of the two-semester course LARC*4101/2. Refer to LARC*4101/2 for course	
Visual and physical characteristics of plants and their use. Design theory and its application at a site specific scale. Study of the use of plants in a wide range of applications.	description.	
Prerequisite(s): LARC*2330	Prerequisite(s): LARC*3050, LARC*3440	
LARC*2410 Site Engineering F (3-1) [0.50]	LARC*4101/2 Design Thesis F-W [1.50]	
A focus on contour grading to facilitate circulation, stormwater runoff, and design intent.	The fall semester consists of the study of research methods, research, writing and presentations on individually selected topics. The student uses this work to complete an	
Aspects of surveying, plotting, as well as runoff and cut and fill calculations.	individual landscape design or planning project in the winter. Each student is to integrate	
Prerequisite(s): LARC*2020, LARC*2420	the knowledge and demonstrate the skills acquired in preceding courses in a professional	
LARC*2420 Materials and Techniques W (3-0) [0.50]	manner. This is a two-semester course offered over consecutive semesters. When you select it you must select LARC*4101 in the first semester and LARC*4102 in the second	
The study of materials commonly used for landscape construction. Specification of	semester. A grade will not be assigned to LARC*4101 until LARC*4102 has been	
procedures and materials for contractual purposes. Detail drafting.	completed.	
Prerequisite(s): LARC*1100	Prerequisite(s): LARC*3050, LARC*3440	
LARC*2820 Urban and Regional Planning W (3-0) [0.50]	LARC*4102 Design Thesis W (2-6) [1.00]	
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	Second part of the two-semester course LARC*4101/2. Refer to LARC*4101/2 for course description	
planning literature.	description. <i>Prerequisite(s):</i> LARC*4101	
LARC*2950 History of Cultural Form II W (4-0) [0.50]	LARC*4520 Park and Recreation Administration W (3-0) [0.50]	
This course follows History of Cultural Form I (LARC*1950) and explores the cultural	A study of the major objectives, policies and administrative practices of the principal	
form of 19th century reform period through to contemporary design developments.	park and recreation agencies at various levels of government, with an emphasis on trends	
(Offered through distance education format only.)	and implications for future roles and administrative policies of these agencies. (Offered	
LARC*3040 Site Planning and Design Studio F (2-4) [0.75]	in odd-numbered years.)	
Application of the site planning process, including programming, site analysis, functional	<i>Prerequisite(s):</i> 1.00 credits at the 2000 level in social sciences or three semesters of the B L A program	
analysis and diagramming. Application of design theory and landscape analysis to site design.	the B.L.A. program	
Prerequisite(s): LARC*2020	LARC*4610 Professional Practice F (3-0) [0.50]	
Co-requisite(s): HORT*3260, LARC*2100	Lectures and assignments dealing with professional ethics, organizations, contract law and procedures, relationships with clients, contractors and professional practitioners,	
	office procedures, relationships with events, conductors and processional productions, 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\*4730 Special Study in Landscape Architecture F (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.)

# LAT\*1100 Preliminary Latin I F (3-0) [0.50]

A beginning course in Latin providing the fundamentals of structure and grammar. (This course may not be taken by anyone who has OAC Latin).

LAT\*1110 Preliminary Latin II W (3-0) [0.50]

A continuation of LAT\*1100.

Prerequisite(s): LAT\*1100 or Year 4 (Grade 12) Latin

LAT\*2000 Latin Literature F (3-0) [0.50]

A course in Latin literature based on relevant texts.

*Prerequisite(s):* OAC Latin or LAT\*1100

### LAT\*4100 Directed Readings in Latin Literature F (3-0) [0.50]

A reading course in Latin Literature designed according to the needs and the interests of the individual student.

*Prerequisite(s):* CLAS\*3060 or CLAS\*3120

## LAT\*4150 Research Paper: Latin F,W (3-0) [0.50]

A major essay on an area of study to be determined in consultation with the Classics Faculty in the School.

Prerequisite(s): CLAS\*3060 or CLAS\*3120

# Linguistics

School of Languages and Literatures

LING\*1000 Introduction to Linguistics W (3-0) [0.50]

The nature of language. An elementary survey of linguistic disciplines. Phonetics, morphology, syntax, semantics, language, and society.

# 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.

#### The evolution of the Canadian housing finance system is contrasted with that in the MCS\*1000 Introductory Marketing S,F,W (3-0) [0.50] United States. New methods of financing real estate other than traditional mortgages are discussed. An examination of the process of analyzing, planning, implementing, coordinating, and controlling programs involved in the conception, pricing, promotion, and distribution of *Prerequisite(s):* 5.00 credits products, services, and ideas designed to create and maintain beneficial exchanges with COST\*2820 Equate(s): target markets for the purpose of achieving public and private organizational objectives. MCS\*2850 Service Learning in Housing F (3-0) [0.50] (Also offered through distance education format.). The intent of this course is to provide an introduction to ethics and social capital as they Equate(s): COST\*1000 apply to the housing and real estate industries. Students will be required to participate in Restriction(s): This is a Priority Access Course and some restrictions may apply during a 10-15 hour service learning exercise where they volunteer for a frontline housing some time periods. Please contact the department for more information. agency/provider. They will then share their experiences with their classmates during the This course may not be taken for credit subsequent to receiving credit final week of classes. in AGEC\*4370 or HTM\*3080. *Prerequisite(s):* 5.00 credits MCS\*1400 Introduction to Design W (3-0) [0.50] Equate(s): COST\*2850 Designed to increase visual awareness and recognition of natural and planned design Restriction(s): MCS\*2810 elements in the environment. Investigation of the roles of designers and an understanding MCS\*3010 Quality Management W (3-0) [0.50] of design as an applied process that responds to human needs. Lectures will include general concepts and expectations of quality assurance from Equate(s): COST\*1400 consumer, government, managerial and technological points of view and discuss the This is a Priority Access Course and some restrictions may apply during Restriction(s): relationship of national and international groups concerned with quality assurance. some time periods. Please contact the department for more information. Seminars apply concepts to selected products and services. MCS\*1820 Real Estate and Housing F (3-0) [0.50] *Prerequisite(s):* 10.00 credits including 0.50 credits in statistics This survey course acquaints students with the theories, practices and principles of real COST\*3010 Equate(s): estate and housing. Topics include how real estate assets and markets differ from other Restriction(s): This is a Priority Access Course and some restrictions may apply during assets, government involvement in the housing and real estate sectors, non-market housing some time periods. Please contact the department for more information. in Canada, financing real estate, and development. MCS\*3020 Services Marketing F,W (3-0) [0.50] COST\*1820 Equate(s): Global economies today are largely dominated by the service industry. This course Restriction(s): COST\*1800 examines the problems facing leaders of service organizations. The course concentrates MCS\*2000 Business in a Changing World F (3-0) [0.50] on areas such as developing service strategy, value creation, service performance measurement, and the impact of globalization and e-business. This course provides marketing students with an overview of business today by reviewing and discussing key issues (such as business ethics and globalization), key business *Prerequisite(s):* 10.00 credits including 1 of AGEC\*4370, MCS\*1000, HAFA\*3080 functions (such as finance, human resources, operations management and marketing). HTM\*3080 and the components of a business plan. Weekly lectures are supplemented by discussions Equate(s): COST\*3020 This is a Priority Access Course and some restrictions may apply during of business cases and hand-in assignments designed to introduce students to basic business Restriction(s): skills (such as business math and decision-making). (First offering - Fall 2008) some time periods. Please contact the department for more information. Prerequisite(s): 2.50 credits MCS\*3030 Research Methods F,W (3-0) [0.50] *Restriction(s):* Registration in the B.Comm. Marketing Management major. This course examines the concepts, principles and practices for consumer, market and MCS\*2020 Information Management S,F,W (3-0) [0.50] product development research processes. Topics include research problem definition, research objectives, research design, measurement, sampling methods, execution and Introduces the concepts and principles of information acquisition, manipulation and research management, analysis and interpretation, and report writing. (Also offered management as relevant to organizational decision-making. Provides experience in the through distance education format.) evaluation of information technology applications used in organizations. Students with credit for this course may not proceed to CIS\*1000, CIS\*1200. Prerequisite(s): STAT\*2060 or STAT\*2090 Equate(s): COST\*3030 Prerequisite(s): 5.00 credits Restriction(s): Registration in the B.Comm. Marketing Management Major, regular COST\*2020 Equate(s): or co-op, Housing and Real Estate Management Major, regular and Restriction(s): This is a Priority Access Course and some restrictions may apply during co-op, or the B.A. Marketing Management Minor. some time periods. Please contact the department for more information. MCS\*3040 Business and Consumer Law F,W (3-0) [0.50] Not available to students registered in B.Comp program or CIS majors and minors This course introduces students to statutory and common law concerning business and MCS\*2100 Personal Financial Management S (3-0) [0.50] 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 An introductory course designed to meet the professional needs of those in teaching, and consumer protection legislation; debtor-creditor relations; competition law; intellectual counselling and community service, as well as personal goals in financial management. property rights and manufacturers' product liability. Prerequisite(s): 5.00 credits *Prerequisite(s):* 5.00 credits COST\*2100 Equate(s): Equate(s): COST\*3040 MCS\*2600 Fundamentals of Consumer Behaviour F,W (3-0) [0.50] This is a Priority Access Course and some restrictions may apply during Restriction(s): In the long run organizations survive and achieve their goals by satisfying the needs and some time periods. Please contact the department for more information. wants of consumers as well as or better than their competitors. This course examines MCS\*3500 Market Analysis and Planning F,W (3-0) [0.50] consumer behaviours, the economic, social, cultural and psychological factors related to This course teaches students decision making theory and the methods of analysis that consumer behaviours, the evolution and change in behaviours and relationships, and the support decision making in the marketing discipline. Topics include customer, competitor ways in which consumers respond to stimuli employed in the marketing of products, and market analysis and methods such as forecasting and decision modeling. services and ideas. Prerequisite(s): 9.00 credits including MATH\*1000, ECON\*1050, STAT\*2060 Prerequisite(s): (1 of MCS\*1000, HAFA\*1000, HTM\*1000), (1 of PSYC\*1100, Equate(s): MCS\*3610 PSYC\*1200, SOC\*1100) Restriction(s): Registration in the B.Comm. Marketing Management major. Equate(s): COST\*2600 Restriction(s): This is a Priority Access Course and some restrictions may apply during

MCS\*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.).

some time periods. Please contact the department for more information.

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MCS*3600 Consumer Information Processes F,W (3-0) [0.50]	MCS*4040 Management in Product Development F (3-0) [0.50]
This course provides an in-depth treatment of information processing research and theories as they relate to consumer independent and choice. Components of theory addressed	Major course components include: new product strategy formulation, the role of technical
as they relate to consumer judgement and choice. Components of theory addressed include: attention and perception, motivation, processing capacity, encoding and memory	and market research, the analysis of opportunities, management of development processes, product launches, government and regulatory controls.
storage, retrieval and decision processes. Applications to marketplace policy and strategy	Prerequisite(s): Registration in the B.Comm. program (Marketing Management major)
are discussed. Prerequisite(s): MCS*2600, MCS*3030	and 12.50 credits including MCS*2600. <i>Equate(s):</i> COST*4040
<i>Equate(s):</i> COST*3600	MCS*4050 The Evolution of Capitalism: A Canadian Perspective F,W (3-0) [0.50]
MCS*3620 Marketing Communications F,W (3-0) [0.50]	A Canadian perspective on capitalism as an evolving process of creative destruction;
Concepts of communication management as practiced by organizations in all economic	implications for Canadian culture and the allocation of economic, political, and social
sectors. Communication management principles are applied to the design and evaluation of communication programs.	power; effects on education, the capacity of governments to govern, and societal notions of what constitutes the public good.
<i>Prerequisite(s):</i> 10.00 credits including MCS*1000, MCS*2600	<i>Prerequisite(s):</i> 12.50 credits including MCS*2600, ECON*1050, ECON*1100
Equate(s):         COST*3620           Restriction(s):         Registration in the B.Comm. Program. This is a Priority Access Course	Equate(s): COST*4050
and some restrictions may apply during some time periods. Please	MCS*4100 Entrepreneurship F (3-0) [0.50]
contact the department for more information.	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
MCS*3810 Real Estate Market Analysis F (3-0) [0.50]	for a business and/or for creatively moving a business forward. The course focuses on
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	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. (First
scope of analysis; identify data needs; collect information from various sources, including	offering - Fall 2010)
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	<i>Prerequisite(s):</i> 14.00 credits including MCS*3500 and a cumulative GPA of 70%.
marketing real estate: listing procedures, advertising, negotiating. (First offering is Fall	<i>Restriction(s):</i> Registration in the B.Comm. program (Marketing Management major).
2008.)	MCS*4300 Marketing and Society W (3-0) [0.50] This course focuses on how the dissemination of marketing knowledge can influence
Prerequisite(s): MCS*1820, STAT*2060 Equate(s): COST*3810	society through the decisions made by public policy makers, corporate decision makers
MCS*3820 Real Estate Development W (3-0) [0.50]	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
This course introduces the student to the real estate development process, providing an	the theme of 'reciprocal influence' is developed, both direct and indirect influences of
overview from the project idea to the cursory feasibility stage. The steps in development	marketing knowledge and marketing decisions are pursued. (First offering Winter
planning that will be investigated are analysis, design, and evaluation. Topics include evaluating development potential, land acquisition, site planning, economic feasibility	2011) Prerequisite(s): 14.00 credits including MCS*1000 and MCS*2600
studies, approval processes, construction, project management, and marketing phases.	<i>Restriction(s):</i> Registration in the B.Comm. program (Marketing Management Major).
The construction of both single family housing and larger buildings is examined. (First offering is Winter 2009.)	MCS*4370 Marketing Strategy F,W (3-0) [0.50]
Prerequisite(s): MCS*1820	This course focuses on the decision-making role of the marketing manager who is
Equate(s): COST*3820	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
Restriction(s):         MCS*4860           MCS*3870 Topics in Housing U (3-0) [0.50]	(product, price, promotion, distribution) with the aid of market research and computerized
Lecture-discussion or seminar on a selected topic or area of specialization related to	information systems is covered.
housing to be conducted by faculty with special interests or expertise in the area. Students	Prerequisite(s):         10.00 credits           Equate(s):         AGEC*4370, COST*4370
should confirm with the department prior to course selection what topic(s), if any, will be offered during specific semesters.	<i>Restriction(s):</i> Registration in the B.Comm. program (Marketing Management Major).
<i>Prerequisite(s):</i> Will be indicated by the department when the course is offered.	MCS*4400 Pricing Management F,W (3-0) [0.50]
Equate(s): COST*3870	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
Restriction(s): Instructor consent required.	covered include pricing strategies, tactical issues related to pricing, pricing methods,
MCS*3880 Topics in Housing U (3-0) [0.50] Lecture-discussion or seminar on a selected topic or area of specialization related to	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.
housing to be conducted by faculty with special interests or expertise in the area. Students	<i>Prerequisite(s):</i> 9.00 credits including ECON*2310
should confirm with the department prior to course selection what topic(s), if any, will be offered during specific semesters	Restriction(s): MCS*3100 and registration in the B.Comm. program (Marketing
be offered during specific semesters. <i>Prerequisite(s):</i> Will be indicated by the department when the course is offered.	Management Major).
Equate(s): COST*3880	MCS*4600 International Marketing F,W (3-0) [0.50] The study of marketing in a global context with specific emphasis on the strategic
Restriction(s): Instructor consent required.	implications of marketing in different country cultures. Included are the global marketing
MCS*3890 Property Management W (3-0) [0.50]	environment and the competitive challenges and opportunities confronting today's
Financial theory is used to examine the diversification benefits of including real estate with financial assets in an investment portfolio. Diversification strategies within a real	international marketers, the cultural environment of global marketing, the assessment of global market opportunities and the development of global marketing strategies.
estate portfolio are also covered. The marketing and leasing of real estate space culminates	<i>Prerequisite(s):</i> MCS*1000, MCS*2600, MCS*3030
in a leasing negotiation exercise between pairs of students. Differing property management issues faced by managers of residential, office, retail, industrial and mixed use properties	<i>Equate(s):</i> COST*4600 <i>Restriction(s):</i> Registration in the B.Comm program (Marketing Management major).
are covered.	<i>Restriction(s):</i> Registration in the B.Comm program (Marketing Management major).
<i>Prerequisite(s):</i> (COST*1800 or MCS*1820), and (1 of MCS*2820, ECON*3560, HTM*3070)	
HTM*3070) <i>Equate(s):</i> COST*3890	
MCS*4020 Research in Consumer Studies U (3-0) [0.50]	
An independent investigation of a pertinent topic in consumer studies. Registration	
requires departmental approval. <i>Prerequisite(s):</i> MCS*3030	
Equate(s): COST*4020	

MCS*4810 Real	Estate and Housing Project W (3-0) [0.50]
	capstone course meant to bring together concepts from all other Re
	ng courses. It deals with the development, redevelopment and renew
-	eal estate services. Students will complete a project that addresses a
	estate or housing sector, applying knowledge of development, mark bility, financing and government regulation.
Prerequisite(s):	
Equate(s):	COST*4810
Restriction(s):	Registration in the B. Comm program (Real Estate and Housing majo
	or permission of the instructor.
MCS*4820 Real	Estate Appraisal F (3-0) [0.50]
	s with the basic principles involved in valuing real estate. The mark
	and income approaches of appraisal are covered. The major emphas
	on using discounted cash flow projections to value income-producin
	rm project involves the use of a spreadsheet program to estimate proper erty chosen by the student. While valuation of single family homes
	n emphasis is on investment real estate.
Prerequisite(s):	•
Equate(s):	COST*4820
-	sing and Real Estate Law F (3-0) [0.50]
	principles which guide the expanding and changing body of law dealin
with housing and	real estate development and forms of occupancy; statutory and regulato
matters are explo	ored.
Prerequisite(s):	10.00 credits including MCS*1000, COST*1800 , MCS*2820
Equate(s):	COST*4840
MCS*4850 Hou	sing Policies F (3-0) [0.50]
	substantive and jurisdictional policy and program development at the
	al and local levels. The policy making process will be reviewed as we
	rogram evaluation techniques. The emphasis is on Canada although other countries will be discussed. (Last Offering is Fall 2007.)
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Prerequisite(s): Equate(s):	10.00 credits including COST*1800, MCS*2820 COST*4850
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## XII. Course Descriptions, Mathematics

Mathematics	MATH*2160 Linear Algebra I F (3-0) [0.50]
Department of Mathematics and Statistics	Matrix notation, matrix arithmetic, matrix inverse and determinant, linear systems of
Suggested initial course sequence:	equations, and Gaussian elimination. The basic theory of vector spaces and linear
1. For students with 4U or OAC Calculus and expecting to pursue further studies in	transformations. Matrix representations of linear transformations, change of basis,
mathematics or the physical sciences: MATH*1200, MATH*1210.	diagonalization. Inner product spaces, quadratic forms, orthogonalization and projections.
<ol> <li>For students interested in applications to the biological sciences: MATH*1080, MATH*2080.</li> </ol>	Prerequisite(s): (IPS*1110 or MATH*1200), (1 of MATH*2150, 4U Geometry and Discrete Mathematics, OAC Algebra and Geometry)
3. For students not expecting to pursue further studies in mathematics: MATH*1000,	MATH*2170 Differential Equations I W,S (3-1) [0.50]
one STAT*XXXX course	First order equations, linear equations of second and higher orders, phase plane, difference equations, introduction to power series methods, Laplace transforms, formulation, solution
MATH*1000 Introductory Calculus F,W (3-0) [0.50]	and interpretation of differential equations of interest in science.
A brief introduction to analytical geometry. The differential and integral calculus for algebraic, logarithmic, exponential and trigonometric functions, with applications. (Also offered through distance education format.)	Prerequisite(s): MATH*1210 or MATH*2080 Restriction(s): MATH*2270
<i>Prerequisite(s):</i> 1 4U credit in mathematics or 1 OAC credit in mathematics	MATH*2200 Advanced Calculus I F (3-0) [0.50]
<i>Restriction(s):</i> MATH*1080 or MATH*1200. Not available to students registered in the B.Sc. and B.Sc. (Agr.) programs.	Infinite sequences and series of numbers, power series, tests for convergence; Taylor's theorem and Taylor series for functions of one variable; planes and quadratric surfaces;
MATH*1080 Elements of Calculus I F,W (3-1) [0.50]	limits, continuity, and differentiability; partial differentiation, directional derivatives and gradients; tangent planes, linear approximation, and Taylor's theorem for functions of
The elements of the calculus of one variable with illustration and emphasis on its application in the biological sciences. The elementary functions, sequences and series, difference equations, differential and integral calculus.	two variables; critical points, extreme value problems; implicit function theorem; Jacobians; double integrals, iterated integrals and change of variables.
	Prerequisite(s): 1 of IPS*1210, MATH*1210, MATH*2080
Prerequisite(s):       4U Advanced Functions and Calculus or OAC Calculus         Restriction(s):       MATH*1000, MATH*1200, IPS*1110	MATH*2210 Advanced Calculus II W (3-0) [0.50]
MATH*1200 Calculus I F (3-1) [0.50]	Spherical and cylindrical polar coordinate transformations; multiple integrals; line
This is a theoretical course intended primarily for students who expect to pursue further	integrals; vector and scalar fields including the gradient, divergence, curl and directional derivative, and their physical interpretation; theorems of Green and Stokes; uniform
studies in mathematics and its applications. Topics include inequalities and absolute	convergence.
value; compund angle formulas for trigonometric functions; limits and continuity using	<i>Prerequisite(s):</i> MATH*2200, (MATH*1200 is strongly recommended)
rigorous definitions; the derivative and derivative formulas (including derivatives of trigonometric, exponential and logarithmic functions); Fermat's theorem; Rolle's theorem;	MATH*2270 Applied Differential Equations F (3-1) [0.50]
the mean-value theorem; applications of the derivative; Riemann sums; the definite	Solution of differential equations which arise from problems in engineering. Linear
integral; the fundamental theorem of calculus; applications of the definite integral; the	equations of first and higher order; systems of linear equations; Laplace transforms; serie
mean value theorem for integrals.	solutions of second-order equations; introduction to partial differential equations.
Prerequisite(s):       4U Advanced Functions and Calculus or OAC Calculus         Restriction(s):       MATH*1000, MATH*1080, IPS*1110	Prerequisite(s): ENGG*1500, MATH*1210 Restriction(s): MATH*2170
MATH*1210 Calculus II W (3-1) [0.50]	MATH*3100 Differential Equations II F (3-1) [0.50]
Topics include inverse functions, inverse trigonometric functions, hyperbolic and inverse hyperbolic functions, indeterminate forms and l'Hopital's rule; techniques of integration; parametric equations; polar coordinates; introduction to MacLaurin and Taylor series; functions of several variables; and partial derivatives. (Last offering Summer 2008)	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): 1 of MATH*1000, MATH*1080, MATH*1200 Restriction(s): MATH*2080	<i>Prerequisite(s):</i> (MATH*2150 or MATH*2160), MATH*2170
MATH*2000 Set Theory F (3-1) [0.50]	MATH*3130 Abstract Algebra F (3-0) [0.50]
The algebra of sets. Equivalence relations, mappings and inverse mappings. Review of	Symmetric groups; introduction to group theory; groups, subgroups, normal subgroups
the real number system. Countable and uncountable sets. Partially and totally ordered sets. Complex numbers and their arithmetic. Geometry and topology of the line and the	factor groups, fundamental homomorphism theorem. Introduction to ring theory; rings subrings, ideals, quotient rings, polynomial rings, fundamental ring homomorphism theorem.
plane. Emphasis is placed on developing skills in constructing mathematical proofs.	Prerequisite(s): MATH*2000, (MATH*2150 or MATH*2160)
Prerequisite(s): 0.50 credits in calculus at the university level	MATH*3160 Linear Algebra II W (3-0) [0.50]
MATH*2080 Elements of Calculus II F,W (3-1) [0.50]	Complex vector spaces. Direct sum decompositions, Cayley-Hamilton theorem, spectral
Techniques of integration, introduction to differential equations and the elements of multivariate calculus. Illustrations and emphasis will be on biological applications. An	theorem for normal operators, Jordan canonical form of a matrix.
introduction to vectors, multivariable and vector functions, difference equations, partial	Prerequisite(s): MATH*2160
differentiation and multiple integration.	MATH*3170 Partial Differential Equations and Special Functions W (3-0) [0.50]
Prerequisite(s): 1 of MATH*1000, MATH*1080, MATH*1200 Restriction(s): MATH*1210	Wave equation, heat equation, Laplace equation, linearity and separation of variables solution by Fourier series; Bessel and Legendre functions; Fourier transforms; introduction
MATH*2130 Numerical Methods S,W (3-2) [0.50]	to the method of characteristics.
This course provides an overview of and practical experience in utilizing algorithms for	Prerequisite(s): MATH*2000, MATH*3100
solving numerical problems arising in applied sciences. Topics covered will include solution of a single nonlinear equation, interpolation, numerical differentiation and	MATH*3200 Real Analysis F (3-0) [0.50]
integration, solution of differential equations and systems of linear algebraic equations.	Metric spaces and normed linear spaces. Fixed point theorems with applications to fractals Uniform continuity. Riemann-Stieltjes integration.
Students will utilize computers in solving problem assignments.	Prerequisite(s): MATH*2000, MATH*2160, MATH*2210
Prerequisite(s): MATH*1210 or MATH*2080	MATH*3240 Operations Research F (3-0) [0.50]
MATH*2150 Applied Matrix Algebra S,F,W (3-1) [0.50]	Mathematical models. Linear programming and sensitivity analysis. Network analysis
Matrices and matrix operations, matrix inverse and determinant, linear equations. N-dimensional vectors: dot product, linear independence, basis and dimension. Rank of a matrix. Eigenvalues, eigenvectors and diagonalization. Applications, including least	shortest path, maximum flow and minimal spanning tree problems. Introduction to non-linear programming. Constrained optimization: the Frank-Wolfe method Deterministic and probabilistic dynamic programming.
squares. (Also offered through distance education format.) <i>Prerequisite(s):</i> 1 of a 4U mathematics credit, an OAC mathematics credit, first year	<i>Prerequisite(s):</i> (MATH*2150 or MATH*2160), 0.50 credits in statistics <i>Co-requisite(s):</i> MATH*2200
university mathematics credit Restriction(s): MATH*2160	
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### MATH\*3260 Complex Analysis W (3-0) [0.50]

The complex derivative and planar mappings. Analytic and harmonic functions. Conformal mappings. Elementary functions. Cauchy-Goursat theorem. The Taylor and Laurent series. Calculus of residues with emphasis on applications.

Prerequisite(s): MATH\*2000, MATH\*2200

MATH\*3510 Biomathematics W (3-0) [0.50]

Development, analysis, and interpretation of mathematical models of biological phenomena. Emphasis will be on deterministic discrete and continuous models.

*Prerequisite(s):* (MATH\*2150 or MATH\*2160), (MATH\*2170 or MATH\*2270), at least 0.50 credits in statistics at the 2000 level or above

### MATH\*4000 Advanced Differential Equations W (3-0) [0.50]

A rigorous treatment of the qualitative theory of ordinary differential equations and an introduction to the modern theory of dynamical systems, existence, uniqueness, and continuity theorems. Definition and properties of dynamical systems. Linearization and local behaviour of nonlinear systems. Stable Manifold theorem. Liapunov stability. Limit cycles and Poincaré-Bendixson Theorem. 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]

Discussion of selected topics at an advanced level. Intended mainly for mathematics students in the 6th to 8th semester. Content will vary from year to year. Sample topics: 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\*2160, MATH\*3200

### MATH\*4060 Topics in Mathematics II W (3-0) [0.50]

Discussion of selected topics at an advanced level as in MATH\*4050, but with different choice of topic. (Offered in even-numbered years.)

Prerequisite(s): MATH\*2160, MATH\*3200

### MATH\*4070 Case Studies in Modeling F (2-2) [0.50]

Study of selected topics in applied mathematics at an advanced level, intended mainly for mathematical science students in the 7th or 8th semester. Sample topics are optimal control theory and nonlinear programming. The course will include case studies of real-world problems arising from various areas and the contribution of mathematical models to their solution. Part of the course requirement will involve the completion of a mathematical modeling project in conjunction with the departmental Mathematics and Statistics Clinic. For further information concerning the Clinic, consult the department. (Offered in even-numbered years.)

*Prerequisite(s):* 3.50 credits in mathematical science including MATH\*2130

### MATH\*4140 Applied Algebra W (3-0) [0.50]

Finite symmetric groups, dihedral and cyclic groups with applications to the group of symmetries of a geometric figure in the plane. Polya-Burnside method of enumeration with applications. Galois fields with applications to combinatorial design constructions. Error correcting binary codes. (Offered in even-numbered years.)

Prerequisite(s): MATH\*3130

### MATH\*4200 Advanced Analysis F (3-0) [0.50]

Sequences and series of functions. Stone-Weierstrass approximation theorem. Compactness in function spaces. Introduction to complex dynamics and the Mandelbrot set. Multivariate differential calculus. (Offered in even-numbered years.)

Prerequisite(s): MATH\*3160, MATH\*3200, MATH\*3260

### MATH\*4220 Applied Functional Analysis W (3-0) [0.50]

Hilbert and Banach spaces: applications to Fourier series and numerical analysis. Hahn-Banach theorem; weak topologies. Generalized functions; application to differential equations. Completeness; uniform boundedness principle. Lebesque measure and integral; applications to probability and dynamics. Spectral theory. (Offered in even-numbered years.)

Prerequisite(s): MATH\*2160, MATH\*3200

### MATH\*4240 Advanced Topics in Modeling W (3-0) [0.50]

A study of selected advanced topics in mathematical modeling, to include model formulation, techniques of model analysis and interpretation of results. Topics usually include transportation and assignment problems, minimum cost flow problems and network simplex methods, Markov chains, queuing theory. Student participation in researching a project and in the preparation of a report. (Offered in odd-numbered years.) *Prerequisite(s):* MATH\*3240

MATH\*4270 Advanced Partial Differential Equations F (3-0) [0.50]

Theory of 1st and 2nd order partial differential equations with examples. Classification of linear second order PDE. Theory and examples of associated boundary value problems. Maximum principles. Green's functions. Introduction to nonlinear PDE. Applications.

## Prerequisite(s): MATH\*3170, MATH\*3200, MATH\*3260

## MATH\*4290 Geometry and Topology W (3-0) [0.50]

Classical geometry of the plane and 3-space. Non-Euclidean geometries. Elementary topology of graphs and surfaces. Topics to be selected from: algebraic geometry; analysis on manifolds; Riemannian geometry; tensor analysis; homotopy and homology groups. (Offered in odd-numbered years.)

Prerequisite(s): MATH\*3130, MATH\*3200

#### MATH\*4430 Advanced Numerical Methods F (3-0) [0.50]

Numerical solution of linear systems, differential equations; the algebraic eigenvalue problem, interpolation and approximation of functions, numerical quadrature. (Offered in odd-numbered years.)

*Prerequisite(s):* MATH\*2130, (MATH\*2150 or MATH\*2160), MATH\*2200, (MATH\*2170 or MATH\*2270)

### MATH\*4510 Environmental Transport and Dynamics F (3-0) [0.50]

Mathematical modeling of environmental transport systems. Linear and nonlinear compartmental models. Convective and diffusive transport. Specific models selected from hydrology; ground-water and aquifer transport, dispersion of marine pollution, effluents in river systems; atmospheric pollen dispersion, plume models, dry matter suspension and deposition; Global circulation: tritium distribution. (Offered in odd-numbered years.)

*Prerequisite(s):* MATH\*3510 or MATH\*3100, 0.50 credits in statistics

# Molecular and Cellular Biology

# 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, MBG\*2020Equate(s):MBG\*4620

## MCB\*4050 Protein and Nucleic Acid Structure F (3-0) [0.50]

This course explores the physical conformation and atomic structures of proteins and nucleic acids and the techniques and tools for the determination, comparison, and prediction of macromolecular structures. Students will design their own protein structures as part of experiencing the process of scientific writing, peer-review and publishing.

Prerequisite(s): BIOC\*3560 Equate(s): BIOC\*4550, MBG\*4350

MCB\*4080 Applied Microbiology and Biochemistry F (3-0) [0.50]

This course is a study of how microorganisms, their enzymes and biochemical pathways can be manipulated to produce goods and services in industry, medicine and scientific research. The means by which the yields of secondary metabolites, enzymes, and genetically selected products can be maximized are considered and examples of specific processes are examined. Department of Molecular and Cellular Biology and Department of Environmental Biology.

Prerequisite(s):	BIOC*2580, (1 of BIOC*3560, BIOC*3570, MICR*2020,
	MICR*2030)
Equate(s):	BIOC*4570, MICR*4260

# Meteorology

Department of Land Resource Science

MET*1000 The Atmospheric Environment S (3-0) [0.50]	
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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]

Weather and climate effects on agricultural production. 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.

*Prerequisite(s):* BIOL\*1020 or BIOL\*1030

## MET\*2030 Meteorology and Climatology F (3-2) [0.50]

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]

Natural and intentionally-modified microclimates near the earth's surface; energy budgets; transport of mass and heat. Familiarization with some instruments for microclimatic measurements.

Prerequisite(s): 1 of MET\*2020, MET\*2030, 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

### MET\*4300 Atmospheric Transport and Chemistry W (3-0) [0.50]

Behaviour of synoptic scale weather systems and the transport of substances in the atmosphere. Chemical and photochemical transformations during transport; scavenging and removal from the atmosphere. (Offered in even-numbered years.)

Prerequisite(s): (1 of CHEM\*1310, CHEM\*3360, ENGG\*3360, TOX\*3360, ENVS\*3360), MET\*2030 Restriction(s): MET\*4310

# Microbiology

Department of Environmental Biology

Department of Molecular and Cellular Biology

Department of Pathobiology

## MICR\*1020 Fundamentals of Applied Microbiology F (2-3) [0.50]

This course is designed for students in engineering and applied human nutrition. The importance of microbes from an environmental point of view, including water systems and soils as well as their importance in disease, nutrition, food and food processing will be emphasized. The theoretical basis of microbial analysis and control measures will be included. The laboratory component of the course will deal with microbial growth and practical aspects of microbial analysis of environmental and food samples including identification and enumeration of specific microorganisms and approaches for their control. B.Sc. students cannot take this course for credit. Department of Molecular and Cellular Biology.

Restriction(s):	BIOL*1030, BIOL*1040. Registration in B.A.Sc. Program (Applied
	Human Nutrition major) or B.Sc. (Eng.) program.

### MICR\*2020 Microbial Interactions and Associations F,W (3-0) [0.50]

The interactions and associations of microorganisms with each other and with components of both the biotic and abiotic worlds have an enormous impact on daily life and their influence is felt on a global basis. The diversity of microorganisms including viruses, bacteria, fungi and protozoa will be presented in the context of such interactions and impact. The interactions of microbes with host organisms in symbioses and pathogenesis, and their survival strategies in extreme environments will be examined. The host-pathogen interactions in disease will be emphasized, but balanced with consideration of the beneficial aspects of microorganisms such as their role in biogeochemical cycles and their application in biotechnology. Assignments will evaluate contemporary microbiological issues in the context of the corresponding scientific literature. Department of Molecular and Cellular Biology.

*Prerequisite(s):* BIOL\*1040 or equivalent

## MICR\*2030 Microbial Growth S,F,W (2-3) [0.50]

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. Microscopy, isolation and enumeration, measurement of growth. Department of Molecular and Cellular Biology.

Prerequisite(s): BIOL\*1040

### 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.

*Prerequisite(s):* MICR\*2030

### MICR\*3220 Plant Microbiology F (3-0) [0.50]

Interaction between plants and microorganisms. 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. Department of Environmental Biology.

Prerequisite(s): BIOL\*1040

### MICR\*3230 Immunology I F (3-0) [0.50]

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, 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.

Prerequisite(s):BIOL\*2210, MBG\*2020, MICR\*2030Co-requisite(s):BIOC\*3560Restriction(s):MICR\*4270

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. The diversity of viruses, their replication strategies and interactions with the host in disease at the individual, to societal levels provides a fundamental virology background. Discussions of protection from viral diseases, including human interventions, and highlighting their pervasiveness through historical accounts and contemporary news articles on viruses will serve to demonstrate their relevance to today's society. Department of Molecular and Cellular Biology.

*Prerequisite(s):* BIOL\*2210, MBG\*2020 *Restriction(s):* MICR\*4120

### MICR\*4010 Pathogenic Bacteriology W (3-0) [0.50]

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): MICR\*3120, MICR\*3230, (MBG\*3070 or MBG\*3080)

### MICR\*4140 Soil Microbiology and Biotechnology F (3-0) [0.50]

The biology of soil microorganisms with an emphasis on their integrated ecology, physiology, genetics and biotechnological uses in the soil environment. The response of soil microorganisms to soil physical-chemical factors and aspects of nutrient cycling in soil. Current topics also include soil as an environment for microorganisms, microbial evolution, soil microbial biodiversity, gene flow and microbial nucleic acids in soil, microbial survival and activity in soil, metabolism of soil pollutants and metal-microbe interactions. The use of molecular-based methods to study microorganisms in soil. Regulations and guidelines on the biotechnological applications of microorganisms in the soil environment will be discussed. Department of Environmental Biology.

## Prerequisite(s): BIOC\*2580, BIOL\*1040

MICR\*4180 Microbial Processes in Environmental Management F (3-0) [0.50]

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. Department of Environmental Biology.

*Prerequisite(s):* BIOC\*2580, BIOL\*1040

### MICR\*4230 Immunology II W (3-3) [0.50]

Concepts and current knowledge of the diversity of immune response, experimental systems used in studying immunology, antigen-antibody reaction methods, monoclonal antibodies, antibody engineering, hypersensitivity reactions, autoimmunity, and adhesion molecules and homing of cells of the immune system. Department of Molecular and Cellular Biology.

Prerequisite(s): MICR\*3230

### MICR\*4240 Topics in Microbiology S,F,W (1-3) [0.50]

Independent study of a selected topic in microbiology, involving a review and critical appraisal of the current literature. Written and oral presentations are required. Department of Molecular and Cellular Biology.

*Restriction(s):* Students are required to discuss a topic with a potential supervisor before registering for the course. Open to students in semesters 6, 7 and 8. Instructor consent required.

### MICR\*4280 Microbial Ecology W (3-0) [0.50]

This course focuses on analysis of natural microbial communities, factors affecting structure and function of these communities and the interrelationships among microorganisms within community. There is a strong emphasis on understanding the role of microorganisms in carbon, nitrogen and phosphorus transformations within both aerobic and anaerobic environments. This will include the major chemical and biochemical transformation by microorganisms in a vertical slice through a pond, from the core of the earth through the air water interface and up through the stratosphere. Terrestrial and fresh water aquatic environments will be emphasized, but a consideration of aspects relevant to the marine environment will be included. The interrelationship of nutrient cycling and global warming will also be discussed. Aspects of environmental biotechnology will be included as appropriate.

*Prerequisite(s):* MBG\*2020, MICR\*2030 *Restriction(s):* MICR\*4290

### MICR\*4310 Research Project I S,F,W (0-12) [1.00]

Independent research projects involving experimental or practical work, conducted under the supervision of a faculty member. Results are presented in written and oral form. Department of Molecular and Cellular Biology.

*Restriction(s):* Students must have a research advisor and permission from the course coordinator before registering. Instructor consent required.

### MICR\*4320 Research Project II S,F,W (0-12) [1.00]

Independent research projects involving experimental or practical work, conducted under the supervision of a faculty member. Results are presented in written and oral form. Department of Molecular and Cellular Biology.

Prerequisite(s): MICR\*4310

*Restriction(s):* Students must have a research advisor and permission from the course coordinator before registering. Instructor consent required.

### 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 tumor virology and host antiviral responses such as interferon and apoptosis and 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. (Offered in even numbered years.)

*Prerequisite(s):* MICR\*2030, MICR\*3330

Restriction(s): MICR\*4120. Restricted to student majoring in MICR and MBG.

### 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

Molecular Biology and Genetics	MBG*3100 Plant Genetics F (3-2) [0.50]
Department of Animal and Poultry Science Department of Molecular and Cellular Biology Department of Plant Agriculture	Reproduction in plants, genetic and cytogenetic structure of plants, nature of phenotypic variability in plants, patterns of response to selection in plant populations, measurement of continuous and discontinuous genetic variability in plant populations. Department of
Department of Flam Agriculture Department of Integrative Biology	Plant Agriculture.
MBG*1000 Genetics and Society F,W (3-1) [0.50]	Prerequisite(s): (MBG*2000 or AGR*2451/2 for B.Sc.(Agr.) students only), STAT*2040
Basic principles of genetics at work in human society. The roles of genes and inheritance	MBG*3200 Genetics: Our Uncertain Heritage F (3-0) [0.50]
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. <i>Restriction(s):</i> Not available to students registered in B.Sc. programs.	An examination of the ethical, social, and political issues arising from genetic manipulation, reproductive intervention and biotechnology through the joint application of principles of modern genetics and moral philosophy. Topics include eugenics, cloning surrogate parenting, abortion, gene therapy, DNA fingerprinting and genetic diagnostic Related issues such as scientific freedom, access to genetic information and public polic
MBG*2000 Introductory Genetics S,F,W (3-1) [0.50]	are also considered. Department of Molecular and Cellular Biology.
Fundamental aspects of genetics including the chromosomal basis of inheritance, cytogenetics, genes in populations and quantitative traits will be introduced. Additional	Prerequisite(s): MBG*2000 MBG*3350 Laboratory Methods in Molecular Biology I F,W (0-8) [0.75]
topics include extranuclear inheritance, human genetics and bacterial genetics. The molecular nature of the gene and general mechanisms of gene and general mechanisms of gene expression will be introduced but not covered in detail. Department of Molecular and Cellular Biology. <i>Prerequisite(s):</i> 4 credits including BIOL*1040	Laboratory based instruction in the basic methodologies of Molecular Biology. Student will have the opportunity to develop technical skills and practical knowledge sufficient to perform basic procedures independently, and to diagnose and analyze experimentar results obtained with these techniques. Department of Molecular and Cellular Biology
MBG*2020 Introductory Molecular Biology F,W (3-1) [0.50]	<i>Prerequisite(s):</i> BIOC*2580, MBG*2020 <i>Restriction(s):</i> Registration in the B.Sc. Major in Molecular Biology and Genetics,
This course provides an introduction to the structure of the gene and the relationship between genes and proteins with an in depth discussion of the processes of replication,	Biochemistry, Biochemistry (Co-op), Biomedical Toxicology, Biomedical Toxicology (Co-op) or instructor consent.
transcription, translation, regulation of gene expression, mutation and DNA repair and	MBG*3360 Laboratory Methods in Molecular Biology II W (0-8) [0.75]
recombination. The experimental techniques used in molecular cloning and their applications to the biotechnology industry and the study of diseases will be discussed. Department of Molecular and Cellular Biology.	Laboratory based instruction in the basic methodologies of Molecular Biology. Student will have the opportunity to develop technical skills and practical knowledge sufficien to perform advanced agendas independently, and to diagnose and analyze experimentation of the statement
Prerequisite(s): BIOC*2580, MBG*2000	results obtained with these techniques. Department of Molecular and Cellular Biology
MBG*3000 Population Genetics F (3-2) [0.50]	<i>Prerequisite(s):</i> 70% in MBG*2020 and 75% in MBG*3350
This course is designed to explore the concepts of random mating, inbreeding, random drift, assortative mating and selection as they relate to natural populations. The dynamic genetic structure of populations and its relationship to the process of speciation is examined. The role and significance of molecular genetics as it relates to population genetics, evolution, systematics and phylogeny is also considered. Department of Integrative Biology.	MBG*3600 Introduction to Genomics S,F (1.5-0) [0.25] Genomics is the analysis of the structures and functions of entire genomes, whos nucleotide sequences are now known in part or in entirety for many different organism This computer-based course will provide an introduction to the methology and applicability of this new discipline. Department of Molecular and Cellular Biology. (Offered throug distance education format only.)
Prerequisite(s):         MBG*2000           MBG*3050 Human Genetics W (3-3) [0.50]	Prerequisite(s): MBG*2020
A course 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. <i>Prerequisite(s):</i> MBG*2020	MBG*4030 Animal Breeding Methods F (3-2) [0.50] Theoretical and scientific aspects of practical animal breeding programs which lead t genetic improvement of efficiency and profitability of animal production. Integrate quantitative genetics with concepts of statistics, economics, biology and biotechnolog and expands into development of practical breeding plans. Department of Animal an Poultry Science. <i>Prerequisite(s):</i> MBG*3060
MBG*3060 Quantitative Genetics W (3-2) [0.50]	MBG*4040 Genetics and Molecular Biology of Development F (3-2) [0.50]
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. Department of Animal and Poultry Science. <i>Prerequisite(s):</i> MBG*2000, 0.50 credits in statistics	An examination of the genetic mechanisms which specify organismic development Molecular biology of determination and cell differentiation, homeotic genes, oncogenes genetic control of morphogenesis and pattern formation. Application of embry manipulation techniques in basic science and medicine. Department of Molecular an Cellular Biology. (Offered in odd-numbered years.)
MBG*3080 Bacterial Genetics S,F (3-0) [0.50]	Prerequisite(s): MBG*2020
This course focuses on the genetics of prokaryotic microorganisms and their viruses.	Restriction(s): MBG*4070
Some major topics covered are: regulation of gene expression, analysis of bacterial and phage genomes, plasmids, transposable elements, and mutation studies. Department of	MBG*4070 Genetics and Molecular Biology of Development F (3-0) [0.50]         Lecture portion only of MBG*4040. (Offered in odd-numbered years.)
Molecular and Cellular Biology. Prerequisite(s): MBG*2020, (MICR*2020 or MICR*2030) Restriction(s): MBG*3070	Prerequisite(s): MBG*2020 Restriction(s): MBG*4040
MBG*3090 Applied Animal Genetics F (3-2) [0.50]	MBG*4080 Molecular Genetics F (3-0) [0.50]
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	The chemical nature of genetic material, transcription and the control of gene expression DNA cloning and the use of recombinant DNA molecules in modifying gene expression Department of Molecular and Cellular Biology. <i>Prerequisite(s):</i> MBG*2020

## 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. (Offered in even-numbered years.)

Prerequisite(s):MBG\*2020Equate(s):MBG\*4200

### MBG\*4160 Plant Breeding W (3-2) [0.50]

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\*3100, AGR\*2451/2 (for B.Sc.(Agr.) students only)], STAT\*2040

### MBG\*4240 Applied Molecular Genetics W (3-0) [0.50]

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

### MBG\*4270 DNA Replication, Recombination and Repair W (3-0) [0.50]

This course will examine the DNA transactions that determine the structure of the 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, developmentally-regulated changes in gene structure, inherited and somatic genetic diseases arising from abnormal DNA metabolism, and DNA sequence changes and chromosome alterations in evolution. Department of Molecular and Cellular Biology. (Offered in odd-numbered years.)

Prerequisite(s): MBG\*2020

#### MBG\*4300 Plant Molecular Genetics W (3-0) [0.50]

Molecular genetics of plants. 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.

*Prerequisite(s):* MBG\*2020

#### MBG\*4500 Research Project in Molecular Biology and Genetics I S,F,W (0-12) [1.00]

Independent theoretical and laboratory research on a topic in the discipline under the supervision of individual faculty. Students must make arrangements with both a faculty supervisor and the course coordinator prior to preregistration.

Prerequisite(s): MBG\*3350

*Restriction(s):* Registration in semester 7 or 8 of the B.Sc. program, Molecular Biology and Genetics major. Instructor consent required.

MBG\*4510 Research Project in Molecular Biology and Genetics II S,F,W (0-12) [1.00]

Independent theoretical and laboratory research on a topic in the discipline under the supervision of individual faculty. Students must make arrangements with both a faculty supervisor and the course coordinator prior to preregistration.

Prerequisite(s): MBG\*4500

*Restriction(s):* Registration in semester 7 or 8 of the B.Sc. program, Molecular Biology and Genetics major. Instructor consent required.

#### MBG\*4600 Topics in Molecular Biology and Genetics S,F,W (1-3) [0.50]

Independent study of a current topic in Molecular Biology and Genetics, selected from the recent research literature and involving a review and critical appraisal of underlying experimental principles. The course comprises independent library research, participation in weekly meetings, and written and oral presentations. Students must make arrangements with both faculty supervisor and the course coordinator in a prior course selection period. Open to students in semesters 6, 7, and 8 of the B.Sc. Major in Molecular Biology and Genetics. Department of Molecular and Cellular Biology.

Prerequisite(s):MBG\*3350Restriction(s):MBG\*4500, MBG\*4510, MICR\*4240. Instructor consent required.

# Music

School of Fine Art and Music

Ensembles Chamber 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. Auditions are held prior to the first day of classes each semester. In order to continue to the 2000 level of Applied Music, students must be in a Music Program (Honours major or minor, or General).

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 my 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.

**Topics Courses:** The School will normally offer a Topics course each Fall and Winter. See courses MUSC\*3800 to MUSC\*3870. Please consult the School of Fine Art and Music for specific titles of courses to be offered.

## MUSC\*1060 Introduction to Music 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\*1090 Physics of Music W (3-0) [0.50]

A course 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 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\*1250 Melody and Counterpoint W (3-0) [0.50]

An introduction to the linear aspects of music through the study of melody, species counterpoint, and figured bass.

Prerequisite(s): 1 of MUSC\*1120, MUSC\*1130, MUSC\*1180, MUSC\*2180

 MUSC\*1500 Applied Music I F,W (1-6) [0.50]

 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.

 MUSC\*1510 Applied Music II S,F,W (1-6) [0.50]

 A continuation of MUSC\*1500.

Prerequisite(s): A minimum grade of 70% in MUSC\*1500.

### MUSC\*2010 The Musical Avant-Garde F (3-0) [0.50]

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.)

Restriction(s): MUSC\*3630

### 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 (3-0) [0.50]

An introduction to computer technologies as they apply to the creation and manipulation of music. Topics will be drawn from the areas of sound synthesis and processing, recording, encoding, and transcription. The course will include a classroom and an applied component.

*Prerequisite(s):* MUSC\*1180 or MUSC\*2180. Some computer experience is recommended.

## MUSC\*2110 Music of the Circum-Atlantic and the Americas F (3-0) [0.50]

This course offers an ethnomusicological examination of the musical life of West and Central Africa, the Caribbean, and the Americas. (Offered in even-numbered years.)

### *Restriction(s):* MUSC\*2350

### MUSC\*2140 History of Jazz F (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.

## MUSC\*2180 Musicianship II F,W (3-0) [0.50]

A continuation of MUSC\*1180.

Prerequisite(s): MUSC\*1180

### MUSC\*2200 Music of the Near and Far East W (3-0) [0.50]

An ethnomusicological examination of the musical life of the Islamic world, South Asia, Indonesia, and the Far East. (Offered in even-numbered years.)

*Equate(s):* MUSC\*2350

## 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.

# MUSC\*2280 Masterworks of Music F,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. This is a web-based course. (Offered through distance education format only.)

Equate(s):

Restriction(s):

MUSC*2360 Tonal Harmony I F (3-0) [0.50]	MUSC*2570 Keyboard Accompaniment I F,W (0-2) [0.25]
The study of diatonic harmony: triads, progression, secondary dominants, harmonization	Development of sight-reading and accompaniment skills for pianists in close coordination
of melodies and basses; dissonance treatment; diatonic modulation.	with vocal and instrumental applied music students.
Prerequisite(s): MUSC*1250 Equate(s): MUSC*2250	Prerequisite(s):       MUSC*2510         Restriction(s):       Instructor consent required.
MUSC*2370 Tonal Harmony II W (3-0) [0.50]	MUSC*2580 Keyboard Accompaniment II F,W (0-2) [0.25]
A continuation of MUSC*2360 which introduces chromatic harmonies (augmented and	A continuation of MUSC*2570.
Neapolitan sixth chords), suspension chords, linear structures, and non-diatonic modulation.	Prerequisite(s): MUSC*2570
Prerequisite(s): MUSC*2360	MUSC*2600 Music History: Chant to Josquin F (3-0) [0.50]
Equate(s): MUSC*2250	A survey of the history of music from chant to the mid-Renaissance. Principal genres
MUSC*2410 Applied Composition I F,W (1-6) [0.50]	and composers from the pre-Christian era to Josquin will be studied.
This course offers individual instruction in the technical and aesthetic aspects of music	Prerequisite(s):1 of MUSC*1120 , MUSC*1130, MUSC*1180, MUSC*2180Equate(s):MUSC*2160
composition. In order to register for this course, students must submit a portfolio and	MUSC*2610 Music History: The Reformation to J.S. Bach W (3-0) [0.50]
arrange for an interview with the School of Fine Arts and Music at the time of course selection.	A survey of the history of music from the mid-16th century to the end of the Baroque
<i>Prerequisite(s):</i> (MUSC*1180 or MUSC*2180), MUSC*1250.	era. Principal genres and composers from the beginning of the Italian madrigal to J.S.
Restriction(s): Instructor consent and registration in a Music Program (Honours major	Bach will be studied.
or minor, General).	<i>Prerequisite(s):</i> 1 of MUSC*1120, MUSC*1130, MUSC*1180, MUSC*2180 <i>Equate(s):</i> MUSC*2160
MUSC*2420 Applied Composition II F,W (1-6) [0.50]	
This course is a continuation of MUSC*2410.	MUSC*2620 Music History: Classical and Romantic Eras F (3-0) [0.50]
<i>Prerequisite(s):</i> A minimum grade of 70% in MUSC*2410.	A survey of the history of music from the classical era to the late 19th century. Principal genres and composers from C.P.E. Bach to Brahms and Wagner will be studied.
<i>Restriction(s):</i> Registration in a Music Program (Honours major or minor, General).	Prerequisite(s): 1 of MUSC*1120, MUSC*1130, MUSC*1180, MUSC*2180
MUSC*2500 Applied Music III S,F,W (1-6) [0.50] A continuation of MUSC*1510.	Equate(s): MUSC*2170
Prerequisite(s): (MUSC*1180 or MUSC*2180), a minimum grade of 70% in	MUSC*3040 Analytical Method F (3-0) [0.50]
MUSC*1510. (MUSC*1180 or MUSC*2180), a minimum grade of 70% in MUSC*1510. (MUSC*1180 or MUSC*2180 may be taken as	This course offers instruction in an established analytical method appropriate to a pre-tonal,
corequisite)	tonal, post-tonal, or twelve-tone repertoire, through exercises in analysis and relevant readings. (Offered in odd-numbered years.)
Restriction(s): Registration in a Music specialization.	Prerequisite(s): MUSC*2370
MUSC*2510 Applied Music IV S,F,W (1-6) [0.50]	MUSC*3150 Music in London F (3-0) [0.50]
A continuation of MUSC*2500.	A lecture/seminar course that will examine in depth choral and instrumental music of
<i>Prerequisite(s):</i> A minimum grade of 70% in MUSC*2500, (1 of MUSC*2600, MUSC*2610, MUSC*2620).	major composers from representative periods and media, performed at London, England.
Restriction(s): Registration in a Music specialization.	Compositions will be analyzed in relation to their stylistic technique, formal structure,
MUSC*2530 Instrumental Ensembles I F,W (0-2) [0.25]	and historical place in the repertoire of music. A professor of music will present weekly seminars, arrange assignments, and give personal supervision in London.
The study and performance of selected instrumental music through participation in one	<i>Restriction(s):</i> Admission to the London Semester.
of the School's ensembles: Chamber Ensemble, Concert Winds, Contemporary Music	MUSC*3290 Musicianship III F (3-0) [0.50]
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	A study of the fundamentals of conducting techniques. Emphasis on practical application
will be held prior to the first day of classes each Fall and Winter semester. Students must	to choral and instrumental organizations; score reading and analysis and interpretation
check with the School of Fine Art and Music office for audition dates. Students are	of literature. (Offered in odd-numbered years.)
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	<i>Prerequisite(s):</i> (MUSC*2180, MUSC*2360) or permission of the instructor
in Winter. Consult the School of Fine Art and Music for further information.	Equate(s): MUSC*2290
<i>Restriction(s):</i> Successful completion of an audition. Instructor consent required.	MUSC*3410 Applied Composition III F,W (1-6) [0.50]
MUSC*2540 Instrumental Ensembles II F,W (0-2) [0.25]	This course is a continuation of MUSC*2420. (First offering - Fall 2008)
A continuation of MUSC*2530.	<i>Prerequisite(s):</i> A minimum grade of 70% in MUSC*2420 and (2 of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560).
Prerequisite(s): MUSC*2530	<i>Restriction(s):</i> Registration in a Music Program (Honours major or minor, General).
Restriction(s): Instructor consent required.	MUSC*3420 Applied Composition IV F,W (1-6) [0.50]
MUSC*2550 Choral Ensembles I F,W (0-2) [0.25]	This course is a continuation of MUSC*3410. (First offering - Winter 2009)
The study and performance of selected choral literature through participation in one of	Prerequisite(s): A minimum grade of 70% in MUSC*3410.
the School's ensembles; the University of Guelph Symphonic Choir, the Chamber Choir, or Siren. In order to register for an ensemble, the student must arrange for an audition	<i>Restriction(s):</i> Registration in a Music Program (Honours major or minor, General).
with the School of Fine Art and Music. Auditions will be held prior to the first day of	MUSC*3500 Applied Music V S,F,W (1-6) [0.50]
classes each Fall and Winter semester. Students must check with the School of Fine Art	A continuation of MUSC*2510; restricted to students in a Music program (Honours
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	major or minor or General, area of concentration).
ensembles will be able to accept new members in Winter. Consult the School of Fine Art	<i>Prerequisite(s):</i> 3.00 credits in music courses including a minimum grade of 70% in MUSC*2510 and (2 of MUSC*2530, MUSC*2540, MUSC*2550,
and Music for further information.	MUSC *2560).
Equate(s): MUSC*2520	<i>Restriction(s):</i> Registration in a Music Program (Honours major or minor, General,
<i>Restriction(s):</i> Successful completion of an audition. Instructor consent required.	Area of Concentration).
MUSC*2560 Choral Ensembles II F,W (0-2) [0.25]	
A continuation of MUSC*2550.	
Prerequisite(s): MUSC*2550 Equate(s): MUSC*2520	

Instructor consent required.

MUSC*3510 Applied Music VI S,F,W (1-6) [0.50]	MUSC*3840 Topics in Music Theory U (3-0) [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 or general, area of concentration).	An analytical investigation of a selected topic in music. Topics will rotate on an annual basis and may include advanced theoretical study of Western art music as well as jazz theory.
<i>Prerequisite(s):</i> 4.00 credits in music courses including a minimum grade of 70% in	<i>Restriction(s):</i> Instructor consent required.
MUSC*3500 Restriction(a). Resistration in a Music Program (Honours major or minor Constal	MUSC*3850 Topics in Music Theory U (3-0) [0.50]
<i>Restriction(s):</i> Registration in a Music Program (Honours major or minor, General, Area of Concentration).	An analytical investigation of a selected topic in music. Topics will rotate on an annual
MUSC*3550 Advanced Music Ensemble I F,W (0-3) [0.25]	basis and may include advanced theoretical study of Western art music as well as jazz theory.
The study and performance of selected instrumental or vocal chamber music through	<i>Restriction(s):</i> Instructor consent required.
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	MUSC*3860 Topics in Digital Music U (3-0) [0.50]
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	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
selection in Fall (for Winter) or Winter (for the following Fall). A form is available from	notation/instrumentation, synthesis and signal processing, music-oriented computer
the School office for this purpose.	programming, or interactive computer music. Normally, a major creative project will be
<i>Prerequisite(s):</i> MUSC*2500, (2 of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560)	completed and presented as an outcome of the course. <i>Prerequisite(s):</i> MUSC*2100, (MUSC*2010 or MUSC*2220)
<i>Restriction(s):</i> Registration in a Music Program (Honours major or minor, General,	Restriction(s): Instructor consent required.
Area of Concentration). Instructor consent required.	MUSC*3870 Topics in Digital Music U (3-0) [0.50]
MUSC*3560 Advanced Music Ensemble II F,W (0-3) [0.25]	This is a course which focuses on a specific area of digital music production. Topics may
A continuation of MUSC*3550.	include advanced audio production, advanced MIDI sequencing, advanced music
Prerequisite(s): MUSC*3550 Restriction(s): Instructor consent required.	notation/instrumentation, synthesis and signal processing, music-oriented computer programming, or interactive computer music. Normally, a major creative project will be
MUSC*3630 20th Century Music F (3-0) [0.50]	completed and presented as an outcome of the course.
This course examines music from the late 19th century (Debussy and post-romantic	Prerequisite(s): MUSC*2100, (MUSC*2010 or MUSC*2220)
composers) to the present from both historical and theoretical perspectives.	Restriction(s): Instructor consent required.
Prerequisite(s): MUSC*2370, MUSC*2620	MUSC*4040 Analytical Method W (3-0) [0.50] This seminar in advanced analysis examines complex applications of the theoretical
MUSC*3740 Issues in Popular Music Studies W (3-0) [0.50]	method studied in the prerequisite course. (Offered in even-numbered years.)
This course examines the rise and impact of the cultural industries on production and	Prerequisite(s): MUSC*3040
consumption of music, the development of transnational popular music, and the role popular music plays in the politics of social identity.	Restriction(s): Instructor consent required.
Prerequisite(s): 1 of MUSC*1120, MUSC*1130, MUSC*1180, MUSC*2180	MUSC*4200 Directed Readings I S,F,W (3-0) [0.50]
MUSC*3750 Popular Musics of the World W (3-0) [0.50]	A reading course designed to enable the student to investigate a topic in music not otherwise available in the curriculum. The student will design a course of readings and
The major styles and genres of popular musics around the world, with an emphasis on musical style and its relationship to social processes.	assignments 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 the previous
Prerequisite(s): (MUSC*1180 or MUSC*2180), MUSC*2150	semester.
The following topics courses normally focus on current areas of faculty research, such as recent developments in jazz research, the reception of the music of Beethoven,	Prerequisite(s):       Completion of the music core.         Restriction(s):       Instructor consent required.
the music of Gabriel Faure, improvisational studies, Lied and Art Song, Russian	MUSC*4210 Directed Readings II S,F,W (3-0) [0.50]
music and literature, and black music of the circum-Atlantic and digital music. It is expected that students will have completed at least 10.00 credits before taking these	A reading course designed to enable the student to investigate a topic in music not
upper-level courses.	otherwise available in the curriculum. The student will design a course of readings and assignments with the instructor and submit the proposal to the Director of the School of
MUSC*3800 Topics in Music U (3-0) [0.50]	Fine Art and Music for approval by the last day of course selection in the previous
A course which examines selected topics in music history, performance practice, analysis,	semester.
and music within its cultural context.	Prerequisite(s): Completion of the music core.
Restriction(s): Instructor consent required.	Restriction(s):       Instructor consent required.         MUSC*4240 Experiential Learning in Music S,F,W (3-0) [0.50]
MUSC*3810 Topics in Music U (3-0) [0.50] A course which examines selected topics in music history, performance practice, analysis,	This experiential learning option provides qualified undergraduate students with an
and music within its cultural context.	opportunity to design an independent program that integrates academic study, such as
Restriction(s): Instructor consent required.	readings or assignments, with off-campus work or performance (paid or volunteer). Written proposals, signed by the instructor, must be submitted to the Director of the
MUSC*3820 Topics in Ethnomusicology U (3-0) [0.50]	School for approval by the last day of course selection in the previous semester.
Topics for this course will normally include some combination of the following: a specific world music tradition, ethnomusicological issues, theories, or methods. Subject matter	Prerequisite(s):3.00 credits in MusicRestriction(s):Instructor consent required.
will vary according to the instructor.	MUSC*4401 Honours Music Project S,F,W (3-0) [0.50]
Prerequisite(s): MUSC*2110 or MUSC*2200 Restriction(s): Instructor consent required.	First part of the two-semester course MUSC*4401/2. Refer to MUSC*4401/2 for course
MUSC*3830 Topics in Ethnomusicology U (3-0) [0.50]	description.
Topics for this course will normally include some combination of the following: a specific	<i>Prerequisite(s):</i> Completion of the music core. <i>Restriction(s):</i> Permission of the School and registration in an honours major in music
world music tradition, ethnomusicological issues, theories, or methods. Subject matter will vary according to the instructor.	Restriction(s): Permission of the School and registration in an honours major in music (students who wish to propose a recital must also have completed MUSC*3510 with a minimum grade of 80%).
Prerequisite(s): MUSC*2110 or MUSC*2200	
Restriction(s): Instructor consent required.	

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## MUSC\*4401/2 Honours Music Project S-F,F-W,W-S [1.00]

Preparation of a major theoretical or historical paper or presentation of a full-length recital. Projects are subject to approval of the School, and must be submitted to the Director, on school forms, by the last day of course selection in the previous semester. This is a two-semester course offered over consecutive semesters. When you select it you must select MUSC\*4401 in the first semester and MUSC\*4402 in the second semester. A grade will not be assigned to MUSC\*4401 until MUSC\*4402 has been completed.

*Prerequisite(s):* Completion of the music core.

Restriction(s): Permission of the School and registration in an honours major in music (students who wish to propose a recital must also have completed MUSC\*3510 with a minimum grade of 80%).

## MUSC\*4402 Honours Music Project S,F,W (3-0) [0.50]

Second part of the two-semester course MUSC\*4401/2. Refer to MUSC\*4401/2 for course description.

Prerequisite(s): MUSC\*4401

ciples and methods used in nutritional assessment of individuals and populations in h and disease states. Dietary, anthropometric and biochemical techniques will be
ary components. Nutritional screening, advanced techniques for body composition ssment, physical exam and clinical indicators will also be addressed. Laboratories provide the students with hands-on training of diet and anthropometric methods. s will be used to develop the understanding of the concepts discussed in lectures
expand on the ethical treatment of individual and group data. Significant independent ing will be required. Department of Family Relations and Applied Nutrition. <i>equisite(s):</i> NUTR*2050, (NUTR*3190 or NUTR*3210)
<i>riction(s):</i> Registration in the 4th year of the Applied Human Nutrition Major.
'R*4040 Clinical Nutrition II F (3-3) [0.75]
ntinuation of NUTR*3040. This lecture and laboratory based course is concerned the application of nutrition to clinical problems. Methods and content of medical tion therapy in prevention and treatment of gastrointestinal, renal, hepatic diseases catabolic states will be emphasized. Ethical issues in nutrition management of disease health professional practice will be addressed. A case study based course. Department unily Relations and Applied Nutrition.
<i>equisite(s):</i> NUTR*3040, BIOM*3110
<i>riction(s):</i> Registration in the 4th year of the Applied Human Nutrition Major.
<b>R*4070</b> Nutrition Education F (3-0) [0.50]
nods and approaches in nutrition education. Community programs in nutrition for rent age groups; dietary counselling; nutrition education in the preschool, in prenatal other specialized programs. Department of Family Relations and Applied Nutrition.
equisite(s): FRHD*3400, NUTR*2050 riction(s): Registration in B.A.Sc. Program.
R*4090 Functional Foods and Nutraceuticals W (3-0) [0.50]
course examines the relation of functional foods and nutraceuticals (FFN) to foods drugs. The safety and efficacy of individual FFN products, and the regulatory issues influence the development and commercialization of FFN in global markets are nasized. The course is co-operatively taught by the Department of Human Health Nutritional Sciences and the Department of Food Science. (Also listed as $D^*4090$ .) equisite(s): NUTR*3190 or NUTR*3210
tte(s):         FOOD*4090 <b>R*4200</b> Nutrition and Immune Function W (3-0) [0.50]
course integrates existing knowledge in several areas - nutrition, metabolism and unology. Of particular interest are the underlying mechanisms of nutritional unomodulation with particular reference to the human problem of protein-energy nutrition. Food sensitivities and the immunological functions of milk will also be idered. Department of Human Health and Nutritional Sciences. (Offered in numbered years.)
equisite(s): NUTR*3190 or NUTR*3210 <b>R*4210 Nutrition, Exercise and Energy Metabolism F (3-0) [0.50]</b>
gy metabolism will be considered under the headings: thermodynamic principles, gy deposition and hormonal control of metabolism; nutrition, exercise and conmental influences on energy balance and enzyme adaptation; nutrition and exercise e control of body composition. Department of Human Health and Nutritional Sciences. <i>equisite(s):</i> (NUTR*3190 or NUTR*3210), (BIOM*3110 or HK*3940)
<b>*R*4320 Nutrition and Metabolic Control of Disease W (3-0) [0.50]</b>
scussion of disorders of metabolism, either inherited or acquired, in which nutrition
s a major role in the etiology, pathogenesis, or treatment. The nutritional control of ffected metabolic pathways and the interaction of nutrition with exercise, drugs and therapy will be presented. Department of Human Health and Nutritional Sciences. <i>equisite(s):</i> (NUTR*3190 or NUTR*3210), (1 of BIOM*3110, HK*3940, ZOO*3210)
s a major role in the etiology, pathogenesis, or treatment. The nutritional control of ffected metabolic pathways and the interaction of nutrition with exercise, drugs and therapy will be presented. Department of Human Health and Nutritional Sciences. <i>equisite(s):</i> (NUTR*3190 or NUTR*3210), (1 of BIOM*3110, HK*3940,
s f e

## NUTR\*4350 Current Issues 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\*3190 or NUTR\*3210), HK\*3940 *Restriction(s):* Instructor consent required.

#### NUTR\*4360 Current Issues in Nutrigenomics W (3-0) [0.50]

This course discusses controversial and/or emerging topics in Human Biology and Nutritional and Nutraceutical Sciences as it relates to nutrigenomics. Department of Human Health and Nutritional Sciences.

Prerequisite(s): (NUTR\*3190 or NUTR\*3210), HK\*3940

## NUTR\*4510 Toxicology, Nutrition and Food F (3-0) [0.50]

The role of foods, herbals and nutraceuticals as sources of antinutrients, natural toxins and environmental contaminants. The impact of toxic exposures on nutritional status. The impact of nutritional status on safe metabolism of toxins, and the use of this knowledge in the design of functional foods. Assessing the risk of genetically modified foods and radioactive contamination of a food supply. Department of Human Health and Nutritional Sciences.

Prerequisite(s): NUTR\*3190 or NUTR\*3210

NUTR\*4810 Applied Human Nutrition Thesis I U (3-0) [0.50]

Planning, developing and writing a research proposal under individual faculty supervision. Topic to be decided by the student in consultation with the supervisory faculty member before course selection or registration period. Department of Family Relations and Applied Nutrition.

Prerequisite(s):FRHD\*3070, NUTR\*2050, NUTR\*3040Restriction(s):Instructor consent required.

NUTR\*4850 Field Experience in Nutrition Education W (2-4) [0.50]

Supervised experience in nutrition education and seminar. Students will apply principles of program planning, nutrition education theory and professional behaviour in a community setting. Placements may be arranged in institutional or community health settings, educational facilities, social services, or food industry. Seminar topics include professional ethics, exploring values, and issues management. Department of Family Relations and Applied Nutrition.

### *Prerequisite(s):* FRHD\*3400, NUTR\*4040, NUTR\*4070

Restriction(s): Instructor consent required.

## NUTR\*4900 Selected Topics in Human Nutrition W (3-0) [0.50]

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 the 4th year of the Applied Human Nutrition 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

# Pathology

Department of Pathobiology

Additional course listings may be found in the course descriptions for Veterinary Medicine.

## PATH\*3040 Principles of Parasitology W (3-3) [0.50]

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.

*Prerequisite(s):* 10.00 credits including at least 1.50 credits in biology.

### PATH\*3610 Principles of Disease W (3-0) [0.50]

A course designed for students with particular interests in nutrition and biology. The course presents basic concepts of disease in the cells, tissues, organs and fluids of the body. Emphasis will be on disease processes resulting from physical, toxic and microbiological and other causes. (Also offered through distance education format.)

Prerequisite(s):1.50 credits in biologyRestriction(s):PATH\*3600

PATH\*4100 Diseases of Aquatic Animals F (2-2) [0.50]

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.

*Prerequisite(s):* 1.50 credits in biology

# 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\*4320, 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]

An introduction to philosophy through primary texts in the history of philosophy, with emphasis upon traditional topics such as the nature of knowledge and the different types of knowledge, the relationship between the mind and the body, the nature of good and evil, and the nature of sound argument.

## PHIL\*1010 Introductory Philosophy: Social and Political Issues F,W (3-0) [0.50]

An introduction to philosophy, with particular emphasis upon important problems facing society today, such as punishment, animal rights, discrimination, war and violence, equality and property and the market as a value system. Some consideration of the elements of argumentation will also occur.

## PHIL\*1050 Introductory Philosophy: Basic Problems F,W (3-0) [0.50]

An introduction 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. Some consideration of the elements of argumentation will also occur.

## PHIL\*2030 Philosophy of Medicine F,W (3-0) [0.50]

An examination of philosophical and ethical issues that arise in human and veterinary medicine, including such topics as the definitions of disease and health, the status of medicine as a science, the role of values in medical research and medical practice, the doctor-patient relationship, psychiatry and the control of human behaviour, and the ethics of genetic counselling.

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2060 Philosophy of Feminism I W (3-0) [0.50]

An examination of 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): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2070 Philosophy of the Environment W (3-0) [0.50]

A critical examination of a variety of current ways of thinking about the environment, aimed at developing a satisfactory philosophical approach, especially from an ethical perspective. (Also offered through distance education format.)

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2100 Critical Thinking F,W (3-0) [0.50]

A course 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): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2110 Elementary Symbolic Logic W (3-0) [0.50]

A study of 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): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2120 Ethics F,W (3-0) [0.50]

An examination of competing ethical theories (subjectivism, intuitionism, relativism, utilitarianism, egoism, deontologism) with a view to assessing their theoretical value as well as their ability to provide practical guidance and to resolve moral dilemmas. (Also offered through distance education format.)

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2130 Philosophy of Religion F (3-0) [0.50]

A consideration of 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, human immortality. (Offered in odd-numbered years.)

Prerequisite(s): 5.00 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 Western philosophy from the Pre-Socratics (6th-century, B.C.) to Plotinus (3rd century, A.D.).

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

PHIL\*2160 Modern European Philosophy to Hume W (3-0) [0.50]

A survey of European philosophy from the Renaissance (15th-century) to David Hume (mid-18th century).

*Prerequisite(s):* 5.00 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.

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

## PHIL\*2180 Philosophy of Science F (3-0) [0.50]

An examination of competing theories concerning the nature of science and its modes of inquiry, and the relationship between theories and data and between scientific knowledge and reality. The central problem of the course is the rational basis of scientific knowledge.

Prerequisite(s): 5.00 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).

Prerequisite(s): 5.00 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. Students are encouraged to consult the departmental website for course content. Students are advised to consult a faculty advisor before registering.

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*2370 Introduction to Metaphysics W (3-0) [0.50]

A study of 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.

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

PHIL\*2600 Business and Professional Ethics W (3-0) [0.50]

An examination of ethical and evaluative issues relating to business and professional practices. 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. Intended for students registered in a science or professional program, but without a background in philosophy.

Prerequisite(s): 5.00 credits or 1 of PHIL\*1000, PHIL\*1010, PHIL\*1050

# PHIL\*3040 Philosophy of Law F (3-0) [0.50]

An examination of philosophical theories concerning the nature of law and morality. The course may also include an examination of the way in which controversial ethical and social issues are treated under the Canadian Charter of Rights and Freedoms.

*Prerequisite(s):* 1.50 credits in philosophy or 7.50 credits or PHIL\*2120

PHIL*3050 Philosophy of Art W (3-0) [0.50]	PHIL*3350 Selected Topics in Philosophy II U (3-0) [0.50]
A consideration of various philosophical questions concerning art such as the nature of	The topics for this course will vary from one offering to the next, and will deal with
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.	material, such as Philosophy of History, Philosophy of Social Science and advance Philosophy of Religion. Students are encouraged to consult the departmental website for
Prerequisite(s): 1.50 credits in philosophy or 7.50 credits	course content. Students are advised to consult a faculty advisor before registering.
PHIL*3060 Medieval Philosophy W (3-0) [0.50]	Prerequisite(s): 1.50 credits in philosophy or 7.50 credits
A study of philosophy from the Patristic period (3rd century A.D.) to the early Renaissance	PHIL*3410 Major Texts in the History of Philosophy W (3-0) [0.50]
(14th-century). The ideas of the central figures will be examined through original sources.	A study of central primary sources in ancient, medieval, early modern of
<i>Prerequisite(s):</i> 1.50 credits in philosophy	nineteenth-century philosophy. The readings and periods stressed will vary from year t
PHIL*3080 History of Modern European Philosophy from Kant F (3-0) [0.50]	year. Students should consult with the department as to topics to be dealt with in eac offering. Specific topics offered will be announced prior to the course selection period
A survey of European philosophy from Immanuel Kant (mid-18th century) to the late	<i>Prerequisite(s):</i> 1.50 credits in philosophy or 7.50 credits
19th century.	PHIL*3420 Philosophical Problems of Religion F (3-0) [0.50]
Prerequisite(s): 1.50 credits in philosophy	A detailed examination of major problems and writings in the philosophy of religion
PHIL*3090 Philosophy of Kant W (3-0) [0.50]	(Offered in even-numbered years.)
Kant revolutionized the philosophical tradition of investigating objectivity (asking what the nature of reality is, in itself) by investigating subjectivity (asking how knowledge is	<i>Prerequisite(s):</i> 1.50 credits in philosophy, including one of PHIL*2130, PHIL*3910
possible for us). This course will typically examine one of Kant's Critiques and/or a	PHIL*3920
central philosophical theme that appears in Kant's works.	PHIL*3910 Indian Philosophy F (3-0) [0.50]
Prerequisite(s): 1.50 credits in philosophy	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 basi
PHIL*3130 Contemporary British and American Philosophy F (3-0) [0.50]	inspirational works of Hinduism and Buddhism, and their respective views on the ultimate
A survey of philosophical movements mainly centred in Britain and America from the	nature of reality, the self, suffering, freedom, ignorance and enlightenment.
late 19th-century to the present.	Prerequisite(s): 1.50 credits in philosophy or 7.50 credits
Prerequisite(s): 1.50 credits in philosophy or 7.50 credits	Restriction(s): PHIL*2910
PHIL*3170 Intermediate Philosophy of Science W (3-0) [0.50]	PHIL*3920 Chinese Philosophy W (3-0) [0.50]
A study of more specialized questions posed by the nature of science and its investigation. Topics may include realism and antirealism, naturalized explanations, and other	An analysis of selected primary sources of Chinese philosophy, in translation, from the I Ching to Mao Tse-tung. Emphasis will be on the foundational works of Confucianism
contemporary problems in the philosophy of science.	Taoism, Ch'an (or Zen) Buddhism, and Neo-Confucianism, concerning such issues a
Prerequisite(s): PHIL*2180	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.
PHIL*3180 Philosophy of Mind W (3-0) [0.50]	<i>Prerequisite(s):</i> 1.50 credits in philosophy or 7.50 credits
A philosophical examination of fundamental theories and problems concerned with mind,	Restriction(s): PHIL*2920
thought, and consciousness.	PHIL*3930 African Philosophy F (3-0) [0.50]
Prerequisite(s): 1.50 credits in philosophy	An introduction to the philosophical traditions of Africa, part historical and pa
PHIL*3190 Theory of Knowledge I F (3-0) [0.50]	contemporary. The shorter historical section will cover some themes from the though
A survey of traditional discussion of the problems of knowledge.	of ancient Egypt, early Christian and Islamic philosophy in North Africa and precolonia traditions from West Africa. The greater section of the course will deal with philosophica
Prerequisite(s): 1.50 credits in philosophy	movements in Africa since the 1960's, as well as their implications for African America
PHIL*3200 Contemporary European Philosophy W (3-0) [0.50]	thought and philosophy generally. (Offered in even-numbered years.)
A survey of philosophical movements mainly centred in continental Europe from the late 19th-century to the present.	Prerequisite(s): 1.50 credits in philosophy or 7.50 credits
Prerequisite(s): 1.50 credits in philosophy	PHIL*4060 Philosophy of Feminism II U (3-0) [0.50]
PHIL*3210 Women in the History of Philosophy F (3-0) [0.50]	This course is an advanced study of problems in feminist philosophy. The course ma cover specific topics or the work of one or more feminist philosophers. Topics may be
This course will examine selected works of women philosophers and their contributions	drawn from feminist ethics, epistemology, and/or postmodernism.
to the major philosophical debates of their day.	<i>Prerequisite(s):</i> 1.00 credits in philosophy at the 3000 level or PHIL*2060
Prerequisite(s): 1.50 credits in philosophy or 7.50 credits	PHIL*4110 Symbolic Logic U (3-0) [0.50]
PHIL*3230 Issues in Social and Political Philosophy W (3-0) [0.50]	A study of issues and techniques beyond the level of elementary sentential logic an
A detailed examination of one or more historical or contemporary treatments of specific	quantification. A consideration of some topics in logical theory. An extension of materi
issues in social or political philosophy, such as: war and peace, justice, rights, social science, culture, education.	explored in PHIL*2110, with special focus on philosophical aspects or implications of formal logic.
<i>Prerequisite(s):</i> 1.50 credits in philosophy or 7.50 credits	<i>Prerequisite(s):</i> PHIL*2110, 1.00 credits in philosophy at the 3000 level
PHIL*3240 Philosophy of Technology F (3-0) [0.50]	PHIL*4230 Social and Political Philosophy U (3-0) [0.50]
This course examines the philosophical problems associated with technology. Topics	This is an advanced level course that examines in detail selected historical or contemporar
may include the nature of technology, the relation between technology and science, and	treatments of specific issues in social and political philosophy.
the various critiques of technology - religious, political, ethical and existentialist - in	Prerequisite(s): PHIL*2120 or PHIL*3230, 1.00 credits in philosophy at the 3000 level
contemporary society.	PHIL*4270 Current Philosophical Issues U (3-0) [0.50]
Prerequisite(s): 1.50 credits in philosophy or 7.50 credits.	A study of primary philosophical texts since 1965. The focus of the course will alternate
PHIL*3250 Philosophy of Language F (3-0) [0.50] This course will explore the relationship between human beings and language, and	between analytic texts and issues and continental texts and issues.
between language and the world. In particular, it may address such fundamental questions	<i>Prerequisite(s):</i> 2.00 credits in philosophy including 1.00 at the 3000 level
as: What is it about the way in which we use words that gives them the meanings they	PHIL*4310 Applied Ethics U (3-0) [0.50]
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	An advanced study of specific problems in applied ethics. This is an intensive cours designed for philosophy majors as well as for seventh and eighth semester students wh
in philosophy.	have had no previous philosophy course.
	PHIL*4340 Ethics U (3-0) [0.50]
<i>Prerequisite(s):</i> 1.50 credits in philosophy or 7.50 credits	
<i>Prerequisite(s):</i> 1.50 credits in philosophy or 7.50 credits	An advanced study of problems in contemporary ethics.

*Prerequisite(s):* PHIL\*2120, 1.00 credits in Philosophy at the 3000 level

PHIL*4360 The	ory of Knowledge II U (3-0) [0.50]
	f central problems concerning the nature of knowledge. In some offerings emphasize problems in the Philosophy of Language.
Prerequisite(s):	2.50 credits in philosophy or PHIL*3190
PHIL*4370 Met	aphysics U (3-0) [0.50]
An advanced stud	ly of problems concerning the nature of reality.
Prerequisite(s):	1.00 credits in philosophy at the 3000 level
PHIL*4390 Sele	cted Topics in Philosophy III U (3-0) [0.50]
Open to honours	philosophy students in their 7th and 8th semesters.
Prerequisite(s):	1.00 credits in philosophy at the 3000 level
PHIL*4400 Maj	or Texts in Philosophy U (3-0) [0.50]
Advanced study PHIL*4420.	of a major text in philosophy not treated in either PHIL*4410 or
Prerequisite(s):	1.00 credits in philosophy at the 3000 level
PHIL*4410 Maj	or Texts in Philosophy U (3-0) [0.50]
Advanced study PHIL*4420.	of a major text in philosophy not treated in either PHIL*4400 or
Prerequisite(s):	1.00 credits in philosophy at the 3000 level
PHIL*4420 Maj	or Texts in Philosophy U (3-0) [0.50]
Advanced study PHIL*4410.	of a major text in philosophy not treated in either PHIL*4400 or
Prerequisite(s):	1.00 credits in philosophy at the 3000 level
PHIL*4800 Hon	ours Philosophy Research Paper I U (3-0) [0.50]
	of a major research paper under the supervision of a faculty member nly to 7th semester honours philosophy students.
	1.00 credits in philosophy at the 3000 level

Prerequisite(s):1.00 credits in philosophy at the 3000 levelRestriction(s):Instructor consent required.

## Physics

Department of Physics

## PHYS\*1000 An Introduction to Mechanics F (3-3) [0.50]

A course for physical science students which develops the concepts of mechanics as applied to translational and rotational kinematics and dynamics, equilibrium of rigid bodies, oscillations, gravitation, special relativity, and fluid statics and dynamics. Normally this is part of the two-course unit PHYS\*1000 and PHYS\*1010.

Prerequisite(s):	[1 of 4U Physics, OAC (or equivalent) Physics, PHYS*1020], 4U or
	OAC (or equivalent) Calculus
Restriction(s):	PHYS*1080, PHYS*1110

## 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, OAC Physics,
	PHYS*1020)

### PHYS\*1020 Introductory Physics F,W (3-2) [0.50]

A course stressing the fundamental properties of particles and waves, designed for students without OAC 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 12 or 3U Physics and at least 1 OAC or 4U mathematics credit. This course is intended only for students who require the equivalent of 4U or OAC Physics in order to proceed to PHYS\*1000, PHYS\*1010, PHYS\*1070, PHYS\*1080, PHYS\*1110, 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]

A course complementary 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, OAC Physics, PHYS*1020), one 4U or OAC
	Mathematics course
Restriction(s).	PHYS*1000 PHYS*1110

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, OAC Physics (or
	equivalent), PHYS*1020]

Restriction(s): PHYS\*1070

### PHYS\*1600 Contemporary Astronomy S,F (3-0) [0.50]

A course designed for arts and social 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. Students with a credit in any Physics course except PHYS\*1020, PHYS\*1810 may not take this course. (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.

## PHYS\*1810 Physics of Music W (3-0) [0.50]

A course 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 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 B.A. program in Music. In this case, permission of the instructor is required. (Also listed as MUSC\*1090.) (Offered in even-numbered years.)

Equate(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): IPS\*1220 or 1.00 credits in physics (excluding PHYS\*1020, PHYS\*1600, PHYS\*1810)

## PHYS\*2040 Fundamental Electronics and Sensors W (3-3) [0.50]

An introduction to modern electronics. Topics covered include DC and AC circuit analysis, digital circuits, analog circuits with emphasis on operational amplifiers and analog-to-digital and digital-to-analog conversion. Applications include the interfacing of various sensors to measure physical parameters.

Prerequisite(s): 0.50 credits in university level calculus, (1 of 4U Physics, OAC Physics, PHYS\*1020)

### 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, IPS\*1110), (1 of IPS\*1220, PHYS\*1010, PHYS\*2460), (MATH\*2150 or MATH\*2160)

## 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, IPS\*1210+), (1 of IPS\*1220+, PHYS\*1000+, PHYS\*1080, PHYS\*1110) (+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

### PHYS\*2460 Electricity and Magnetism I F (3-3) [0.75]

This course and the following one, PHYS\*2470, continue building the foundation in electricity and magnetism begun in the first year. These two courses are intended for students proceeding to advanced studies in the physical sciences. Topics include vector calculus, electric fields, potential, electric work and energy, Gauss's Law, Poisson's and Laplace's equations, capacitors, D.C. circuits, transients and dielectric materials. The laboratory work requires a formal treatment of error analysis, as well as computer programming for data analysis.

*Prerequisite(s):* (1 of IPS\*1220 +, PHYS\*1010+, PHYS\*1070, PHYS\*1130), (1 of MATH\*1210+, MATH\*2080, IPS\*1210 +) (+preferred)

Co-requisite(s): PHYS\*2440

PHYS\*2470 Electricity and Magnetism II W (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.

Prerequisite(s): PHYS\*2460

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-radiation, 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 IPS\*1220, PHYS\*1010, PHYS\*1070, PHYS\*1130), 0.50 credits in mathematics at the 1000 level (excluding MATH\*1050)

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PHYS*2600 General Astronomy S,F (3-2) [0.50]	PHYS*4180 Advanced Electromagnetic Theory F (3-0) [0.50]
An introduction to astronomy: the solar system, the sun, stellar and galactic structure. (Offered in the Fall semester in odd-numbered years.) <i>Prerequisite(s):</i> 0.50 credits in physics at the 1000 level (excluding PHYS*1600, PHYS*1810), 0.50 credit in mathematics at the 1000 level	This course covers Maxwell's equation, Lorentz-force law, conservation of charge, and conservation of energy (Poynting's theorem); potentials, gauge transformations, wave equations, and multipole expansions; Green's functions for the Poisson and wave equations; electrostatics and magnetostatics (including boundary-value problems); motion
PHYS*3080 Energy W (3-0) [0.50]	of charged particles in electromagnetic fields; and propagation and generation of electromagnetic waves.
Energy resources and the production, transmission, interconversion, consumption and	<i>Prerequisite(s):</i> PHYS*2470, PHYS*3400
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	PHYS*4240 Statistical Physics II F (3-0) [0.50]
power, the hydrogen economy, and conservation strategies.	A continuation of PHYS*3240 including a discussion of the grand canonical distribution,
<i>Prerequisite(s):</i> 0.50 credits in physics at the 1000 level (excluding PHYS*1020,	quantum statistics, and transport theory.
PHYS*1600, PHYS*1810), 0.50 credits in mathematics at the 1000 level (excluding MATH*1050)	Prerequisite(s): PHYS*3230, PHYS*3240
PHYS*3100 Electronics F (3-3) [0.75]	PHYS*4500 Advanced Physics Laboratory F (0-6) [0.50] A modular course for students in any physics-related major who will study techniques
Topics include: amplifier properties; signal processing using operational amplifiers;	of nuclear, solid state and molecular physics.
introduction to digital electronics, including counters and registers; circuits to convert analog signals to digital and vice-versa; introduction to the physics of semiconductor	Prerequisite(s): PHYS*2450, (1 of PHYS*3100, XSEN*4110)
devices. The laboratory illustrates lecture topics, and a major component consists of	PHYS*4510 Advanced Physics Project W (0-6) [0.50]
techniques to interface a computer to integrated circuits for data acquisition.	Students will be assigned projects related to their individual interests. These projects may
Prerequisite(s): PHYS*2470	be part of the ongoing research within the Physics Department. Selection of a faculty supervisor and approval of course coordinator must be obtained before course selection.
PHYS*3220 Waves and Optics W (3-0) [0.50]	Prerequisite(s): PHYS*3510
Standing and travelling waves; normal modes; Fourier series; optics including polarization, interference and diffraction.	PHYS*4540 Molecular Biophysics W (3-0) [0.50]
Prerequisite(s): PHYS*2440	Physical methods of determining macromolecular structure: energetics, intramolecular
PHYS*3230 Quantum Mechanics I F (3-0) [0.50]	and intermolecular forces, with applications to lamellar structures, information storage, DNA and RNA, recognition and rejection of foreign molecules.
A formal treatment of quantum mechanics. Topics include wave packets and free particle	<i>Prerequisite(s):</i> 0.50 credits in biochemistry, (CHEM*3860 or PHYS*3230)
motion, the Schrodinger equation, harmonic oscillator, piecewise constant potentials, central forces and angular momentum, hydrogen atom.	PHYS*4560 Biophysical Methods F (3-0) [0.50]
<i>Prerequisite(s):</i> (CHEM*2070 or PHYS*2260), MATH*2160, (MATH*2170 or MATH*2270), PHYS*2470	An introduction to physical techniques to determine the structure of macromolecules and macromolecular structures of biological interest. The techniques include: differential
PHYS*3240 Statistical Physics I S,F (3-0) [0.50]	calorimetry, X-ray and neutron scattering, electron microscopy, Raman and infrared
Introduction to statistical physics including thermodynamics and statistical mechanics of equilibrium phenomena.	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*4240 or be taking this course
<i>Prerequisite(s):</i> MATH*2200, (PHYS*2260 or PHYS*2440)	concurrently.
PHYS*3400 Advanced Mechanics W (3-0) [0.50]	<i>Prerequisite(s):</i> PHYS*3220, PHYS*4040 <i>Co-requisite(s):</i> PHYS*4240 (if not taken as a prerequisite)
This course covers Lagrangian mechanics and Hamiltonian mechanics. Topics include least action principles, Poisson brackets, Liouville's theorem, Hamilton- Jacobi theory,	PHYS*4910 Advanced Topics in Physics I U (3-0) [0.50]
the transition to quantum mechanics and introduction to non-linear dynamics.	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
<i>Prerequisite(s):</i> (MATH*2170 or MATH*2270), PHYS*2450	chaos. This course is not offered every year.
PHYS*3510 Intermediate Laboratory W (0-6) [0.50] A modular course for physics students including modern and classical physics experiments.	<i>Prerequisite(s):</i> (MATH*2150 or MATH*2160), (MATH*2170 or MATH*2270),
Modules include laboratory instrumentation employing computers, modern physics,	PHYS*2450, PHYS*2470 PHYS*4920 Advanced Topics in Physics II U (3-0) [0.50]
waves and optics, molecular physics, biophysics, and solid state physics.	The content of this course is determined by the interests of the students. Possible topics
Prerequisite(s): PHYS*2450, PHYS*3100	include fluid mechanics, theory of elastic solids, general relativity, astrophysics, and
PHYS*4040 Quantum Mechanics II W (3-0) [0.50] A second course in quantum mechanics. Topics include spin, linear vector spaces,	chaos. This course is not offered every year.
two-level systems, quantum dynamics, rotations and angular momentum, time dependent	<i>Prerequisite(s):</i> (MATH*2150 or MATH*2160), (MATH*2170 or MATH*2270), PHYS*2450, PHYS*2470
perturbation theory, Born approximation.	PHYS*4930 Advanced Topics in Physics III U (3-0) [0.50]
Prerequisite(s): PHYS*3230	The content of this course is determined by the interests of the students. Possible topics
PHYS*4120 Atomic and Molecular Physics F (3-0) [0.50]	include fluid mechanics, theory of elastic solids, general relativity, astrophysics, and
The application of quantum theory to atomic and molecular structure, and the interaction between electromagnetic radiation and atoms and simple molecules.	chaos. This course is not offered every year. <i>Prerequisite(s):</i> (MATH*2150 or MATH*2160), (MATH*2170 or MATH*2270),
Prerequisite(s): PHYS*3240, PHYS*4040	PHYS*2450, PHYS*2470
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. <i>Prerequisite(s):</i> 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.	
<i>Prerequisite(s):</i> PHYS*3220, PHYS*3230, PHYS*3240 Recommended: PHYS*4240 <i>Co-requisite(s):</i> PHYS*4040 (if not taken as a pre-requisite)	

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# Physiology

Department of Biomedical Sciences

For course listings and descriptions see Biomedical Sciences.

Additional course listings may be found in the course descriptions for Veterinary Medicine and Human Kinetics.

Students wishing to study Physiology can complete a 3000 level course or course sequence in: ZOO\*3200; or ZOO\*3210; or HK\*3940; or BIOM\*3100; and either BIOM\*3110 or BIOM\*3120. In addition, students can select specialized courses at the 4000 level (preferably at least 2 with labs) offered by the:

Department of Biomedical Sciences:

BIOM*4020	[0.50]	Physiology of Digestion	
BIOM*4030	[0.50]	Endocrine Physiology	
BIOM*4041/2	[1.00]	Mammalian Reproductive Biology	
BIOM*4050	[0.50]	Biomedical Aspects of Aging	
School of Human	Biology:		
HK*4320	[0.75]	Work Physiology	
HK*4460	[0.50]	Regulation of Human Metabolism	
HK*4530	[0.50]	Human Cardiovascular Physiology	
Department of Integrative Biology			
ZOO*4170	[0.50]	Experimental Comparative Animal Physiology	
ZOO*4390	[0.50]	Environmental Physiology	
ZOO*4470	[0.50]	Comparative Endocrinology	

# **Plant Biology**

Department of Molecular and Cellular Biology

Department of Environmental Biology

Department of Land Resource Science

Department of Plant Agriculture

## PBIO\*3110 Crop Physiology F (3-3) [0.50]

Physiological and biochemical principles related to production by crop canopies. Carbon fixation, leaf area, light interception, assimilate distribution, water relations and nutrient utilization are used to develop solutions to problems of crop yield and quality. Growth and development in response to cultural innovations including the use of growth regulators are also considered. Department of Plant Agriculture.

Prerequisite(s): BIOL\*1040

### PBIO\*3750 Plant Tissue Culture F (2-3) [0.50]

An examination and discussion of the principles, protocols and utilization of plant cell tissue culture systems. In vitro propagation and regeneration, mutagenesis and selection, secondary metabolite elicitation and cell transformation techniques including protoplast fusion, direct DNA uptake and plant bacterial co-cultivation will be emphasized. Department of Plant Agriculture.

### *Prerequisite(s):* AGR\*2451/2 or BOT\*2100

PBIO\*4000 Molecular and Cellular Aspects of Plant-Microbe Interactions F (3-0) [0.50]

Examination of molecular and cellular aspects of the interaction between plants and microorganisms such as mycorrhizae, pathogenic fungi, Agrobacterium, pathogenic bacteria, and plant viruses. Topics include microbial virulence, signaling, gene expression, and disease resistance in plants. Departments of Molecular and Cellular Biology and Environmental Biology.

*Prerequisite(s):* BOT\*2100, (MBG\*2020 and MICR\*2020 are recommended)

## PBIO\*4100 Soil Plant Relationships W (3-0) [0.50]

Root growth as affected by soil properties; soil plant water relations; soil aeration; absorption, translocation and function of nutrients in plants; ion transport to roots; rhizosphere effects; application of concepts to crop production. Department of Land Resource Science.

Prerequisite(s): 1 of AGR\*2301/2, BOT\*2100, BOT\*2300, SOIL\*2010, SOIL\*2320

### PBIO\*4150 Molecular and Cellular Aspects of Plant Development W (3-0) [0.50]

An examination of the molecular and cellular processes that underlie cellular differentiation and organ formation in plants. The roles of homeotic genes, gene regulation, cell polarity, morphogens and environmental effects in development will be discussed. Subjects will be introduced by a lecture and examined in detail in discussions of pertinent research papers. Department of Plant Agriculture. (Offered in even-numbered years.)

*Prerequisite(s):* BOT\*2100

### PBIO\*4530 Environmental Pollution Stresses on Plants W (3-0) [0.50]

The study of environmental pollution effects on physiological and ecological processes of plants, in both managed and unmanaged ecosystems. Pollutants under study include contaminants of air (such as ozone, sulphur dioxide and UV-B radiation) and soil (such as metals and organic xenobiotics). The format includes both lecture and presentation/discussion of current and historical peer-reviewed literature. Department of Land Resource Science.

Prerequisite(s): BIOL\*2060, BOT\*2100

## PBIO\*4750 Genetic Engineering of Plants W (3-3) [0.50]

An examination and discussion of the principles, protocols and applications of molecular biology and transformation technology to the genetic improvements of plants. Department of Plant Agriculture.

Prerequisite(s): MBG\*2020

# **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 The State in Comparative Perspective 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 W (3-0) [0.50]

This course examines a variety of theoretical approaches to the study of organizations. It then applies these theories to the structure and operation of the government of Canada. It examines the changing role of bureaucracy in government and critically evaluates issues such as financial and administrative responsibility and accountability. (Also offered through distance education format.)

*Prerequisite(s):* POLS\*1150 orPOLS\*1400

### POLS\*2300 Canadian Government F,W (3-0) [0.50]

Parliamentary government and federal-provincial relations lie at the heart of the Canadian government system. This course provides a detailed examination of the structure, functions, and performance of these central institutions of Canadian government in a comparative context. (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, Israel, Jordan and Algeria) in the Middle East and North Africa (MENA). Issues to be covered: the impact of early Middle Eastern/North African history upon today's politics; class structures in the MENA countries and their impact on politics; the rise of Arab nationalism; Zionism; the politics of oil; the status of women; the political impact of economic restructuring; Islamic movements; state-building; and political liberalization and democratization in the Middle East and North Africa.

*Prerequisite(s):* POLS\*2080 or POLS\*2100

### POLS\*3070 The Politics of Asian Development F (3-0) [0.50]

This course explores the political dynamics that have led to the immense variation of wealth, inequality, deprivation and poverty found in Asia. The focus is comparative, and will emphasize three geographically distinct regions: Northeast Asia, Southeast Asia and South Asia.

*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\*3110 Politics of Ontario U (3-0) [0.50]

This course provides an overview of the political history of Ontario, the character and development of the political parties and institutions, as well as an intensive examination of selected policy issues in contemporary Ontario politics.

Prerequisite(s): 7.50 credits

## POLS\*3130 Law, Politics and Judicial Process U (3-0) [0.50]

This course emphasizes the study of the judicial system as a branch of government and highlights the interaction between the judiciary, law, the political process and public policy. Issues such as judicial selection and Charter of Rights decisions by courts will be explored. Comparisons with the judicial process in other countries will supplement the focus on the Canadian judicial process.

Prerequisite(s): 1 of 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*3220 Classical Political Thought F (3-0) [0.50]	POLS*3410 U.S. Politics and Government U (3-0) [0.50]
This course is an exploration of the concepts of justice and reason in the ancient and	This course involves a treatment of the basic principles and institutions of national
medieval worlds. The theme will be explored in the writings of philosophers such as Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas and Sir Thomas More. The	government and politics in the United States as well as the making and execution of public policy at the national and state levels.
exact selection of thinkers will vary from year to year and students are advised to check	Prerequisite(s): POLS*2100 or POLS*2300
the course outline.	POLS*3440 Corruption, Scandal and Political Ethics U (3-0) [0.50]
Prerequisite(s): POLS*2000 or POLS*3280	This course will introduce students to the phenomenon of political corruption and the
Restriction(s):         POLS*3021           POLS*3230 Modern Political Thought W (3-0) [0.50]	study of its incidence. Attention will be paid to historical examples, contemporary
This course explores the impact of modern science and technology, and its impact on the	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.
western tradition of justice from the seventeenth century to the twentieth century. It will	<i>Prerequisite(s):</i> 5.00 credits
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	POLS*3450 European Governments and Politics U (3-0) [0.50]
will vary from year to year and students are advised to check the course outline.	Europe has forged a new form of political organization, the European Union, in addition
<i>Prerequisite(s):</i> POLS*2000 or POLS*3280	to its variety of national democratic forms. This course offers a comparative examination
Restriction(s): POLS*3021	of selected national governments, as well as an exploration of this new supra-national organization.
POLS*3250 Public Policy: Challenges and Prospects F (3-0) [0.50]	Prerequisite(s): I of POLS*2100, POLS*2200, EURO*2070
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	POLS*3460 Communism and Post-Communism U (3-0) [0.50]
nongovernmental actors.	This course focuses on selected issues in the transition from Communism to
<i>Prerequisite(s):</i> POLS*1400 or POLS*2250	Post-Communism, viewed in a country, regional or theoretical context. Topics include the rise and demise of the Soviet Union, the new political economic and social structures
POLS*3270 Local Government in Ontario U (3-0) [0.50]	which are emerging among successor states and in Central and East Europe, as well as
Municipal governments are major spenders of public funds in Canada, and are also the level of government closest to the people. In this course, students will examine the major	their relation with the world at large. LINK
problems confronting urban government in Ontario.	<i>Prerequisite(s):</i> 1 of HIST*2390, POLS*2100, POLS*2200
Prerequisite(s): 7.50 credits	POLS*3470 Business-Government Relations in Canada U (3-0) [0.50]
POLS*3280 Modern Political Ideologies F (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
An examination of contemporary political ideologies-liberalism and conservatism and	public enterprise, and the increasing emphasis on consultation and co-ordination. This
imperialism; socialism, communism and fascism - in terms of their evolution and current political significance.	course examines the evolving relationship between governments and the private sector in Canada, including business (both large and small), organized labour, specific sectors
Prerequisite(s): 5.00 credits	such as agriculture and consumer affairs and voluntary organizations.
POLS*3300 Governing Criminal Justice U (3-0) [0.50]	<i>Prerequisite(s):</i> POLS*1400 or POLS*2250
The course provides an overview of the policy process and outcomes of the Canadian	POLS*3490 Conflict and Conflict Resolution F (3-0) [0.50]
criminal justice system. Particular emphasis is placed on examining, using various public policy and public management perspectives, the practices and interactions of governmental	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
agencies within the system, such as police agencies and boards, departments of Justice,	conflicts: from explanations for violence, to identifying conditions and means to resolve
Solicitor-General, corrections and parole agencies, courts and the legal profession.	conflict and, finally, to post-conflict governance.
Prerequisite(s): POLS*2250 or POLS*2300	Prerequisite(s): POLS*1500 or POLS*2200
POLS*3320 Politics of Aid & Development F (3-0) [0.50]	POLS*3650 Research Methods II: Quantitative Methods W (2-1) [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	This course examines quantitative research methods used in political science, primarily sampling and surveying techniques, in combination with elementary statistical analysis.
of the Second World War. Particular emphasis will be placed on the role of multilateral,	Students learn how to apply basic descriptive and inferential statistical procedures to
bilateral and nongovernmental organizations in the delivery of development assistance and humanitarian relief.	research political problems and test hypotheses. In lab, students will acquire the skills to perform data analysis
Prerequisite(s): POLS*2080	Prerequisite(s): POLS*3180
POLS*3330 Politics and Trade Liberalization in the Americas U (3-0) [0.50]	<i>Restriction(s):</i> Registration in Criminal Justice & Public Policy or Political Science
This course examines the politics of trade in the three NAFTA countries - Canada, the	(major, minor or area of concentration) or International Development (major only).
US and Mexico. It examines how trade policy is made in each country and how the NAFTA has influenced domestic politics. Topics covered include trade in goods and	POLS*3670 Comparative Public Policy and Administration W (3-0) [0.50]
services, investment and intellectual property.	This course examines the role of the bureaucracy in national development in various
Prerequisite(s): 1 of POLS*2100, POLS*2250, POLS*2300	economic, social and political environments. The focus of the course is the interplay between bureaucracy, democracy and development in a comparative perspective.
POLS*3370 Environmental Policy Formation and Administration S,F (3-0) [0.50]	<i>Prerequisite(s):</i> 1 of ISS*2010, POLS*2080, POLS*2100, POLS*2250
This course surveys both the federal and provincial governmental policies and programs	POLS*3710 Politics and Sexuality U (3-0) [0.50]
relating to the management of natural resources and the control of pollution by examining the political, legal and administrative mechanisms, monitoring surveillances, and	Sexuality is treated as a subject for political theory from a number of critical and
enforcement problems. (Also offered through distance education format.)	interdisciplinary perspectives. The course examines the relationship between sexuality
Prerequisite(s): 7.50 credits	and politics by analyzing the dynamics of power in the context of sexuality.
POLS*3390 Comparative Democratic Institutions U (3-0) [0.50]	Prerequisite(s): POLS*2000 or PHIL*2060
This course will analyse power in democratic political institutions. It will include an examination of executive and legislative powers and the role of political parties and	POLS*3730 The Americas U (3-0) [0.50] Despite varying political systems and different historical experiences, the Americas are
elections in the exercise of these powers. Presidential and parliamentary systems are	cohering more and more as a political, economic and social unit. This course will examine
examined as well as models of majoritarian and consensual democracy.	evolving political systems and processes in Canada, the United States, Latin America
<i>Prerequisite(s):</i> POLS*2100 or POLS*2300	and the Caribbean from a comparative and theoretical perspective. Special emphasis will be placed on hemispheric and regional issues.
	Prerequisite(s): POLS*2080 or POLS*2100

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POLS*3790 The Political Economy of International Relations W (3-0) [0.50]	POLS*4120 Civil Rights and Civil Liberties in Canada and the U.S. F (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). <i>Prerequisite(s):</i> 1 of ISS*2010, POLS*2080, POLS*2100, POLS*2200	The course examines changing conceptions of civil liberties and rights over time in Canada and the U.S., mechanisms for their protection and promotion, and what happens when civil liberties and rights clash with one another. In particular, the course will focus on civil rights and civil liberties decisions by the Supreme Courts in both countries. This focus will include seeking explanations for why and how the decisions were made by the Courts and what impact the decisions have had on public policy and society.
POLS*3890 Government and Politics of India W (3-0) [0.50]	<i>Prerequisite(s):</i> POLS*3130 or POLS*3210 and at least 1.00 credits at the 3000 level in Public Policy and Administration
The course is designed to provide a survey of the history, society, culture, politics, government, bureaucracy and foreign relations of India.	POLS*4140 Conceptions of Canada W (3-0) [0.50]
Prerequisite(s): 1 of POLS*2080, POLS*2100, POLS*2200	This course will explore evolving conceptions of Canadian identity and nationalism
POLS*3920 Modern China F (3-0) [0.50]	through consideration of political culture, institutions and constitutional arrangements. Possible topics include: multiculturalism, Aboriginal identity and community, Quebec
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	nationalism, social citizenship, rights and representation, as well as Canada's global role and significance.
modernize the country within a socialist framework.	<i>Prerequisite(s):</i> POLS*2300 and 1.00 credits at the 3000 level in Canada and the Americas
Prerequisite(s): 1 of POLS*2080, POLS*2100, POLS*2200	POLS*4160 Multi-Level Governance in Canada U (3-0) [0.50]
POLS*3930 Politics of the Agri-Food System U (3-0) [0.50]	This course considers the evolving relationship among levels of government in Canada
Although the production and distribution of food is usually not primarily a function of government, in the 20th century government has been significantly involved in these areas. Questions about the proper role and scope of government involvement have been subject to constant debate, and the extent of this involvement has varied greatly depending on time and place. This course looks at how the state deals with the agricultural sector	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.
in different countries. (Also offered through distance education format.)	<i>Prerequisite(s):</i> POLS*2300 and 1.00 credits at the 3000 level in the Canada and the Americas stream.
<i>Prerequisite(s):</i> POLS*1400, (POLS*2250 or a comparable background in a related discipline)	POLS*4200 International Political Economy U (3-0) [0.50]
<b>POLS*3940 Accountability and Canadian Government U (3-0) [0.50]</b> This course examines the role of accountability within the Canadian government. With an emphasis on fiscal policy at the federal level, the course uses an investigative framework to trace the linkages from policies and decisions to outcomes, and explores the factors that inhibit or facilitate the assignment of responsibility in a complex modern democracy. The roles of various actors (corporations, citizens, lobbyists, bureaucrats, politicians) within Canadian politics are explored, as are such issues as fiscal	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. <i>Prerequisite(s):</i> (1 of POLS*2080, POLS*2100, POLS*2200); and at least 1.00 credit at the 3000 level in Comparative/International Development <b>POLS*4250 Topics in Public Management W (3-0) [0.50]</b>
accountability, government spending, social programming, and economic dependency. (This is a multi-media course requiring on-line access to Netscape 4.0 or equivalent, as	This course will examine various topics related to governance, such as public management
well as a video cassette recorder and television.) (Offered through distance education format only.)	reform, public sector leadership, third sector organizations or budgeting and human resources.
Prerequisite(s): 5.00 credits	<i>Prerequisite(s):</i> POLS*2250 and 1.00 credits at the 3000 level in Public Policy and Administration or Canada and the Americas
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	POLS*4260 Topics in Public Policy U (3-0) [0.50]
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,	This course will examine various public policy issues such as social policy or health care policy in a Canadian or comparative context.
emphasis, and evaluation are at the discretion of the instructor. <i>Prerequisite(s):</i> 1.50 credits at the 3000 level in Political Science or equivalent	<i>Prerequisite(s):</i> (2 of POLS*2250, POLS*2300, POLS*3250), (1.00 credits in Public Policy and Administration or Canada and the Americas)
Restriction(s): Instructor consent required.	POLS*4300 Human Rights, Ethics, and Development W (3-0) [0.50]
POLS*4030 Contemporary Political Theory U (3-0) [0.50]         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 Political Theory and Analysis	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 o philosophical, religious, and cultural perspectives, including both Western and non-Western. Related themes include global and social justice; nationalism cosmopolitanism, and multiculturalism. <i>Prerequisite(s):</i> POLS*2000 and 1.00 credits in Political Theory or
POLS*4100 Women, Justice and Public Policy U (3-0) [0.50]	Comparative/International Development
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 neoliberalism influence the	Restriction(s):       POLS*3120         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
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	<ul> <li>Developing and industrialized countries. The geographical and theoretical focus of the course will reflect the interests of the instructor.</li> <li>Prerequisite(s): (POLS*2080 or POLS*2100), 1.00 credits at the 3000 level in the Comparative/International Development stream.</li> </ul>
countries will be covered, particularly as it relates to "best practices," where appropriate.	POLS*4720 Topics in International Relations U (3-0) [0.50]
<i>Prerequisite(s):</i> 2 of POLS*2250, POLS*2300, POLS*3250 and 1.00 credits in Public Policy and Administration or Canada and the Americas	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 Comparative/International Development stream.

POLS*4930 Sel	ected Topics in Political Science II S,F,W (3-0) [0.50]	
Readings and research in selected areas of the discipline not covered by regular course offerings. Students present a proposal and seek approval from a member of the department in the semester previous to enrolment in this course. The method of course presentation, emphasis, and evaluation are at the discretion of the instructor.		
Prerequisite(s): Restriction(s):	1.50 credits at the 3000 level in Political Science or equivalent Instructor consent required.	
POLS*4970 Ho	nours 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. <i>Prerequisite(s):</i> 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	

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):* BIOL\*1040, STAT\*2040

## POPM\*4040 Epidemiology of Food-borne Diseases F (3-0) [0.50]

This course examines the epidemiology and prevention of foodborne 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, instructor consent required. *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.

*Prerequisite(s):* ANSC\*2340 or ANSC\*3080

# 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 marked (H) are designed for students in a psychology honours program, the Information Systems and Human Behaviour program, the Developmental Psychology Minor program, the Educational Psychology Minor program, the Organizational Behaviour Minor program, the Social Psychology program, the Cognitive Neuropsychology Minor program, or Human Resources Management major of the Bachelor of Commerce program. Students in other programs wishing to take these courses must obtain the permission of the instructors concerned. Unless otherwise specified, all other courses may be taken by general, honours, and students from other programs, providing the prerequisites are met. Courses designated with (H) are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology, or registration in either the HRM Major or ISHB Major.

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 other than PSYC\*3320, PSYC\*3370, and PSYC\*3380.

For courses without semester designations, please check with the department. The remaining courses will normally be offered as indicated. Advance schedules are available in the department.

## PSYC\*1100 Principles of Behaviour S,F,W (3-0) [0.50]

This is an introduction to the study of biopsychology, sensory processes, perception, learning, memory, thought, language, consciousness and motivation. (Also offered through distance education format.)

## PSYC\*1200 Dynamics of Behaviour S,F,W (3-0) [0.50]

This is an introduction to the study of human development, intelligence, personality, psychopathology and its treatment and social psychology. (Also offered through distance education format.)

## PSYC\*2010 Quantification in Psychology S,F,W (3-0) [0.50]

An introduction to psychological measurement and to statistical principles in psychological research. The course emphasizes descriptive statistics and introduces concepts and techniques of hypothesis testing. Cannot be taken for credit by students with credit in a 2000 level or above course in statistics. (Also offered through distance education format.)

## *Prerequisite(s):* PSYC\*1100 or PSYC\*1200

## PSYC\*2310 Introduction to Social Psychology S,F,W (3-0) [0.50]

The content and research methods of social psychology will be explored in lectures and seminars. Content includes social perception, attraction, group dynamics, leadership, conflict and cooperation, attitude change, aggression and conformity. (Also offered through distance education format.) (C)

Prerequisite(s): PSYC\*1200

## PSYC\*2330 Principles of Learning F,W (3-1) [0.50]

An introduction to the basic principles and concepts of classical and instrumental conditioning paradigms of learning, via lectures, demonstrations and student projects. Some student projects may involve laboratory practice on animal conditioning. (C)

*Prerequisite(s):* PSYC\*1100, PSYC\*1200

## PSYC\*2360 Introductory Research Methods S,F,W (3-0) [0.50]

The application of scientific method in psychological experiments with laboratory demonstration. (Also offered through distance education format.)

# Prerequisite(s): PSYC\*1100, PSYC\*1200, (PSYC\*2010 or STAT\*2040)

PSYC\*2390 Principles of Sensation and Perception F,W (2-2) [0.50]

The course objective is to consider the processes of sensory inputs and perception. Approaches ranging from psychophysiology and cognitive psychology to physiology and anatomy will be used. In considering the psychology of sensation and perception, some of the anatomical and physiological aspects of selected senses will be covered in detail and the roles of experience, organization of inputs, and theories of perception are discussed. Topics to be emphasized will vary with the instructor, but may include ontogenetic development, learning, and modification of inputs and their perception. Students will participate in laboratory demonstrations and experiments. (Also offered through distance education format.) (C)

Prerequisite(s): PSYC\*1100

# PSYC\*2410 Behavioural Neuroscience I F,W (3-2) [0.50]

A general introduction to the structure and function of the nervous system. The physiological basis of sensory (input) systems and the motor (output) system are examined as are central physiological bases of processes such as arousal and emotion. Laboratory demonstrations and exercises may be included. (C)

## Prerequisite(s): PSYC\*1100

## PSYC\*2450 Introduction to Developmental Psychology F,W (3-0) [0.50]

An introduction to and an analysis of the major theories of developmental psychology. Emphasis will be placed on the processes of development in the child including physical growth, perception, cognition, personality and interactions with the social environment. The application of developmental psychology to educational and social issues will be discussed. (Also offered through distance education format.) (C)

Prerequisite(s): PSYC\*1100, PSYC\*1200

## PSYC\*2650 Cognitive Psychology F,W (2-2) [0.50]

An introduction to cognitive processes, including topics in the areas of attention, memory, language and reasoning. Students will be exposed to and participate in laboratory demonstrations and experiments. (Also offered through distance education format.) (C)

# Prerequisite(s): PSYC\*1100

## PSYC\*2740 Personality S,F,W (3-0) [0.50]

A review of the theory, assessment procedures and research findings pertinent to major personality constructs. Personality research, methodology and design will also be covered. (Also offered through distance education format.) (C)

Prerequisite(s): PSYC\*1100, PSYC\*1200

## PSYC\*3010 Compensation Systems 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. (Offered through distance education format only.) (H)

## Prerequisite(s): PSYC\*2310

*Restriction(s):* Students must have 70% average in Psychology courses to register or be enrolled in the B.Comm-HRM Major.

### PSYC\*3020 Psychology of Law U (3-0) [0.50]

An examination of psychological methods, findings and theories in the study of law. Topics will include the fallibility of the eyewitness; juror decisional processes; credibility of witnesses and attorneys; socialization into legal systems, police behaviour, etc. (Also offered through distance education format.)

*Prerequisite(s):* PSYC\*2310 (also see psychology core statement)

## PSYC\*3030 Neurochemical Basis of Behaviour U (3-0) [0.50]

An analysis of how drugs act on various neurochemical systems to regulate motivation and behaviour. Topics of discussion may include psychopathology and its treatment.

Prerequisite(s): PSYC\*1100, (BIOM\*3090 or PSYC\*2410) (also see psychology core statement)

## PSYC\*3040 Current Issues in Neuropsychology U (3-0) [0.50]

Major areas of applied brain research and clinical aspects of brain function will be covered. Emphasis will be given to the analysis of psychological deficits following brain damage and to selected aspects of intellectual disabilities.

Prerequisite(s): PSYC\*1100, PSYC\*2410 (also see psychology core statement)

# PSYC\*3060 Occupational Health Psychology F (3-0) [0.50]

The relationship between work, employment and both psychological and physical well-being. The promotion of workplace health through public policy and workplace intervention. (Also offered through distance education format.)

*Prerequisite(s):* PSYC\*2310 (also see psychology core statement).

# PSYC\*3070 Psychology in Human Resource Management F (3-0) [0.50]

This course explores the application of psychological theory and measurement in human resources management. A dual perspective is taken: that of the worker impacted by these practices and that of the manager responsible for implementing them. Specific topics include recruitment, personnel selection, performance management, training, and executive assessment, development, and succession. (Also offered through distance education format.)

Prerequisite(s):PSYC\*1200, PSYC\*2310 (also see psychology core statement).Restriction(s):HTM\*3000

XII. Course Descriptions, Psychology 493			
PSYC*3080 Organizational Psychology F,W (3-0) [0.50]	PSYC*3320 Statistical Principles in Psychological Research F,W (3-2) [0.50]		
An examination of current theories and practices in organizational psychology. Selected topics may include motivation, turnover, absenteeism, leadership, job design, work attitudes, organizational justice, and organizational development and change. (Also offered through distance education format.) <i>Prerequisite(s):</i> PSYC*2310 (also see psychology core statement). <i>Restriction(s):</i> HTM*2200	The course emphasizes inferential tests applied to psychological research. Topics will include: t-tests, analysis of variance, multiple correlation and regression and selected topics in non-parametric statistics. Laboratory sessions will cover statistical application exercises in psychological research. (H) <i>Prerequisite(s):</i> PSYC*2010 or STAT*2040		
PSYC*3090 Training and Development F (3-0) [0.50]	PSYC*3330 Memory U (3-1) [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. (Offered through distance education only.) (H)	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 laboratory demonstrations and experiments. <i>Prerequisite(s):</i> PSYC*2650 (also see psychology core statement) <b>PSYC*3340 Psycholinguistics U (3-1) [0.50]</b>		
Prerequisite(s): PSYC*2310	An introduction to the conceptions of the structure of language as they relate to processes		
Restriction(s):       FSTC*2510         Restriction(s):       Students must have 70% average in Psychology courses to register or be enrolled in the BCOMM-HRM Major.	underlying the acquisition, production, perception and understanding of speech, and to empirical studies that bear on these conceptions. Students will be exposed to and participate in laboratory demonstrations and experiments. (Also offered through distance		
PSYC*3100 Evolutionary Psychology U (3-0) [0.50]	education format.)		
Evolutionary Psychology (EP) offers a Darwinian frame of reference for studying	Prerequisite(s): LING*1000 or PSYC*2650 (also see psychology core statement)		
questions about human nature. After reviewing basic material on genetics and natural selection, we will examine and criticize the contribution of EP to the understanding of	PSYC*3370 Experimental Design and Analysis F (3-1) [0.50]		
the various aspects of individual and social behaviour, such as altruism, logic, mate	This course is intended for students planning to complete PSYC*4870 and PSYC*4880		
selection, health, morality, aesthetics, and the role of culture.	in preparation for graduate studies in Psychology. This course emphasizes (1) the model		
<i>Prerequisite(s):</i> PSYC*2360 (also see psychology core statement)	comparison approach to analysis of variance and (2) effective scientific communication. Issues related to design choice, power, multiple-comparisons and categorical data analysis		
PSYC*3110 Topics in Health Psychology U (3-0) [0.50]	will be reviewed. Laboratory exercises will include SPSS applications and research		
This course covers research in health psychology. Possible topics include the interplay of psychosocial factors, behaviour, and physical health; pediatric health psychology; health interventions at the individual, family, group or community levels. <i>Prerequisite(s):</i> PSYC*2310, PSYC*2450 (also see psychology core statement)	projects. (H) Prerequisite(s): PSYC*2360, (PSYC*3320 or STAT*2050) Restriction(s): PSYC*3371/2. A minimum grade point average of 75% in Psychology courses or instructor consent.		
PSYC*3220 Ergonomics: the Scientific Study of People-System Relationships U	PSYC*3380 Non-experimental Research Methods W (3-0) [0.50]		
(3-0) [0.50]	This course is intended for students planning to complete PSYC*4870 and PSYC*4880		
This course provides a broad survey of the field of ergonomics from the perspective of psychology. Topics to be covered include: human-system concepts and models, safety, accidents, and human error, human perceptual capabilities, human-machine interfaces, engineering anthropometry, workplace design and evaluation methods, measuring the environment. The course will draw widely on web-based materials and require students to complete a number of interactive demonstrations and lab exercises. Students will be expected to draw upon their own workplace experiences and to actively apply the course material to practical workplace situations. (Offered through distance education only.)	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) <i>Prerequisite(s):</i> PSYC*2360, (PSYC*3320 or STAT*2050) <i>Restriction(s):</i> PSYC*3371/2. A minimum grade point average of 75% in Psychology		
Prerequisite(s): PSYC*2650, PSYC*2390	courses or instructor consent.		
PSYC*3250 Psychological Measurement U (3-0) [0.50]	PSYC*3390 Abnormal Psychology U (3-0) [0.50] Current theory and research in the field of abnormal psychology will be examined in		
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) <i>Prerequisite(s):</i> PSYC*2010 (also see psychology core statement)	terms of various models (biological, behavioral, social and psychology with 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.) <i>Prerequisite(s):</i> PSYC*2740 (also see psychology core statement)		
PSYC*3280 Minds, Brains & Machines F (3-0) [0.50]	PSYC*3410 Behavioural Neuroscience II U (2-2) [0.50]		
This course will introduce the student to basic issues in cognitive science from philosophical and psychological perspectives. Connectionism, Turing Machines, artificial intelligence, and alternative naturalistic models of the mind will be among the topics explored. <i>Prerequisite(s):</i> 1.50 credits in Psychology or 1.50 credits in Philosophy <b>PSYC*3300 The Psychology of Gender U (3-0) [0.50]</b>	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. Laboratory demonstrations, exercises and projects may be included. <i>Prerequisite(s):</i> PSYC*2410 (also see psychology core statement)		
This course will examine the theories and psychological research that deals with the	PSYC*3430 Topics in Animal Learning and Cognition U (3-0) [0.50]		
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.	The study of current research in animal cognition, emphasizing such topics as numerical, spatial and logical competence, conceptual abilities, and memory. Seminar presentation and discussion will assume a basic knowledge of operant and Pavlovian conditioning as taught in PSYC*2330.		
<i>Prerequisite(s):</i> PSYC*1200 and at least 1.00 credits of the psychology core (also see psychology core statement)	Prerequisite(s): PSYC*2330 (also see psychology core statement)		
PSYC*3310 Applied Social Psychology U (3-0) [0.50]	PSYC*3440 Cognitive Development 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.	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): PSYC*2310 (also see psychology core statement)	<i>Prerequisite(s):</i> FRHD*2270 or PSYC*2450 (also see psychology core statement)		

PSYC*3450 Social and Personality Development U (3-0) [0.50]	PSYC*3720 Psychology of Learning Difficulties and Disabilities II W (3-0) [0.50]
An examination of research, methodological issues and theories concerning	Continuation of PSYC*3710. Students will develop and report on a systematic remedial
personality-social development. Topics may include temperament, imitation, parent-child interaction, and the development of attachments, sex-roles, morality, aggression and	project involving an underachieving school-age child.
pro-social behaviour.	Prerequisite(s): PSYC*3710 (also see psychology core statement)
Prerequisite(s): FRHD*2270 or PSYC*2450 (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
PSYC*3460 Abnormal Development U (3-0) [0.50]	process. (Also offered through distance education format.)
Theory, research and aspects of current practice concerning abnormal psychological development in childhood and adolescence.	Prerequisite(s): PSYC*1100, (PSYC*1200 or FRHD*2270) (also see psychology core statement)
<i>Prerequisite(s):</i> PSYC*3440 or PSYC*3450 (also see psychology core statement)	PSYC*3850 Intellectual Disabilities U (3-0) [0.50]
PSYC*3480 Psychology of Sport U (3-0) [0.50]	This course covers applied and theoretical aspects of intellectual disabilities, and lays a
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	foundation for work in the area of intellectual disabilities. (Also offered through distance education format.) <i>Prerequisite(s):</i> FRHD*2270 or PSYC*2450 (also see psychology core statement)
group dynamics.	PSYC*3900 Psychology Research Internship F,W,S (0-6) [0.50]
<i>Prerequisite(s):</i> PSYC*1100, PSYC*1200, (PSYC*2310 or PSYC*2740) (also see psychology core statement)	This course provides an experiential learning opportunity through the active participation
PSYC*3500 Social Interactions U (3-0) [0.50]	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
The course concentrates on social interactions in dyads and small groups. Selected topics will be examined through reading, discussion and student projects. Topics may include: the structure and sequence of conversation, self-disclosure, miscommunication, and nonverbal communication. (H)	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.
<pre>Prerequisite(s): PSYC*2310 (also see psychology core statement)</pre>	<i>Prerequisite(s):</i> PSYC*1100, PSYC*1200, PSYC*2010 and at least 1.00 credits at the
PSYC*3520 Political Psychology U (3-0) [0.50]	2000 level of the psychology core Restriction(s): Instructor consent required.
A social psychological examination of collective behaviours, social movements and social (policy) change, emphasizing the development and impact of mass media and	PSYC*3910 Psychology Externship F,W,S (0-6) [0.50]
relationships with individual, collective and political violence. <i>Prerequisite(s):</i> PSYC*2310 (also see psychology core statement)	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
PSYC*3570 The Psychology of Death and Dying U (3-0) [0.50]	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
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.)	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.) <i>Prerequisite(s):</i> (PSYC*1100, PSYC*1200, PSYC*2010 and at least 1.00 credits at
Prerequisite(s): 1 of PSYC*2310, PSYC*2740, PSYC*2450, work experience in related fields, instructor consent (also see psychology core statement)	the 2000 level of the psychology core) or enrolment in the B.Comm Program, Human Resources Management Major <i>Restriction(s):</i> Instructor consent required.
PSYC*3660 Contemporary Psychology U (3-0) [0.50]	Restriction(s):       Instructor consent required.         PSYC*4100 Applied Research in Human Resources Management F (3-0) [0.50]
Some current developments in psychology. Topics will vary with the interests of faculty members assigned to the course and will be announced prior to the course selection period. Prerequisite(s): previous study related to the topic area (also see psychology core statement)	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,
PSYC*3680 Selected Topics in Psychology U (3-0) [0.50]	instructor support will be provided to assist students if difficulties arise. The instructor
This course will highlight current and topical issues 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. <i>Prerequisite(s):</i> previous study related to the topic area (also see psychology core statement)	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. (H) <i>Prerequisite(s):</i> PHIL*2600, PSYC*2360, (HTM*3000 or PSYC*3070), (HTM*2200 or PSYC*3080)
Restriction(s): Instructor consent required.	PSYC*4310 Advanced Topics in Social Psychology U (3-0) [0.50]
PSYC*3690 Community Mental Health U (3-0) [0.50]	An in-depth examination of specific advances in social psychological research, theory,
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	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) <i>Prerequisite(s):</i> PSYC*3310 or PSYC*3500 (also see psychology core statement) <b>PSYC*4320 Advanced Applied Social Psychology F (3-0) [0.50]</b>
alternatives to institutional treatment of the mentally ill. Several field visits to community mental health programs will be arranged. 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. <i>Prerequisite(s):</i> PSYC*2310 (also see psychology core statement)	A seminar course dealing 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)
PSYC*3710 Psychology of Learning Difficulties and Disabilities I F (3-0) [0.50]	Prerequisite(s): PSYC*3310 or PSYC*3500
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. <i>Prerequisite(s):</i> 1 of FRHD*2270, PSYC*2450, PSYC*2650 (also see psychology core	

statement)

PSYC*4330 Advanced Topics in I/O Psychology (H) U (3-0) [0.50]	PSYC*4870 Honours Thesis I S,F,W (3-0) [0.50]
Students will examine theoretical and methodological issues in selected topic areas of industrial/organizational psychology. The focal area of the course, or range of industrial/organizational topics covered by the course, will vary depending on instructor. Selected topic areas may include leadership issues, gender issues, human rights issues, recruitment methods and outcomes, functional job analysis and validation methods, job performance criteria and appraisal tools, selection processes and tools, organizational justice, work attitudes, and prejudice and discrimination in the workplace. Specific topic areas will be announced prior to the course selection period. (H) <i>Prerequisite(s):</i> (HTM*3000 or PSYC*3070), (HTM*2200 or PSYC*3080)	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 of the department's Undergraduate Affairs and Curriculum Committee (UACC). This UACC 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
PSYC*4370 History of Psychology U (3-0) [0.50]	that either PSYC*4370 or PSYC*4900 is taken prior to, or concurrent with, either
The historical roots of modern psychology. Students electing to major by completing the Honours Thesis Courses I and II should note that they are expected to also take either PSYC*4900, or this course, prior to, or concurrent with, either PSYC*4870 or PSYC*4880 (see Graduate Advisory Note under Major). (H) <i>Prerequisite(s):</i> 4.00 credits in psychology, with at least 1.00 credits at the 3000 level	PSYC*4870 or PSYC*4880. (H)         Prerequisite(s):       [(PSYC*3370, PSYC*3380), or PSYC*3371/2], [70% average across (PSYC*2010 or STAT*2040), (PSYC*3320 or STAT*2050)]         Restriction(s):       Instructor consent required.
or above	PSYC*4880 Honours Thesis II S,F,W (2-10) [1.00]
PSYC*4440 Contemporary Issues in Child Development U (3-0) [0.50]	A continuation of PSYC*4870. Students conduct research and write an undergraduate thesis under the direction of a faculty member. This course is intended for students in
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) <i>Prerequisite(s):</i> PSYC*2360, (PSYC*3440 or PSYC*3450)	the honours program. Note that registration in this course is intended for students in PSYC*4370 or PSYC*4900 is taken prior to, or concurrent with, either PSYC*4870 or PSYC*4880. (H) <i>Prerequisite(s):</i> PSYC*4870, [70% average across (PSYC*2010 or STAT*2040), (PSYC*3320 or STAT*2050), [(PSYC*3370, PSYC*3380) or
PSYC*4500 Current Theoretical Issues in Psychology S,F,W (3-0) [0.50]	PSYC*3371/2 ]
An independent program of study in topics of current theoretical import in psychology,	Restriction(s): PSYC*4881/2
<ul> <li>to be decided by the student in consultation with the supervisory faculty member before the student may select or register for the course. (H)</li> <li><i>Prerequisite(s):</i> 4.00 credits in psychology, with at least 1.00 credits at the 3000 level or above</li> <li><i>Restriction(s):</i> Instructor consent required.</li> </ul>	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
PSYC*4510 Current Issues in Psychology S,F,W (0-6) [0.50]	also take either PSYC*4370, or this course, prior to, or concurrent with, either PSYC*4870
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	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.
member. (H)	PSYC*4910 Co-operative Education Project I S,F,W (0-6) [0.50]
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.	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)
PSYC*4600 Cognitive Neuroscience U (3-0) [0.50]	Prerequisite(s): 2 co-operative education work terms
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 there is the activity of a second basis of herein the basis of herein (II).	Restriction(s): Instructor consent required.
<pre>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</pre>	
Prerequisite(s):       PSYC*2360, (1 of PSYC*2390, PSYC*2410, PSYC*2650), (also see psychology core statement)         Restriction(s):       PSYC*4400	
<i>Prerequisite(s):</i> PSYC*2360, (1 of PSYC*2390, PSYC*2410, PSYC*2650), (also see psychology core statement)	
Prerequisite(s):       PSYC*2360, (1 of PSYC*2390, PSYC*2410, PSYC*2650), (also see psychology core statement)         Restriction(s):       PSYC*4400         PSYC*4750 Motivation 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):       PSYC*2360, (1 of PSYC*2390, PSYC*2410, PSYC*2650), (also see psychology core statement)         Restriction(s):       PSYC*4400         PSYC*4750 Motivation 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	

# 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 when seminar courses are available.

#### SOC\*1100 Sociology S,F,W (3-0) [0.50]

An introductory course dealing with the basic concepts and methods of sociology applied to societies, groups and individuals. Students will gain an understanding of basic social processes such as socialization, social exchange, deviance and conformity, social change and basic social institutions such as the economy, the polity, the family, religion, education. (Also offered through distance education format.)

#### SOC\*1500 Crime and Criminal Justice F,W (3-0) [0.50]

This course will introduce students to the study of crime and criminal justice. It will examine the various criminological theories, types of criminal behaviour, and the criminal justice system.

#### SOC\*2010 Canadian Society U (3-0) [0.50]

A description of the structure of Canadian society with its social, political and economic tensions.

Prerequisite(s): SOC\*1100

#### SOC\*2070 Social Deviance S,F,W (3-0) [0.50]

An introduction to some of the basic theories of deviance and social control and their application to selected social problems. (In spring semester offered through distance education format only.)

Prerequisite(s): SOC\*1100 or SOC\*1500

*Restriction(s):* Priority Access course. Enrolment may be restricted to particular programs or specializations. Please see the departmental website.

#### SOC\*2080 Rural Sociology W (3-0) [0.50]

An introduction to the structure and processes of rural society. This course deals with diverse topics such as agrarian movements, the rise of the agro-industrial complex, the role of the state in agriculture, the question of community, and rural environmental issues. A comparative perspective is cultivated, although the primary emphasis is on Canadian society.

*Prerequisite(s):* 1 of ANTH\*1150, GEOG\*1220, SOC\*1100

#### SOC\*2280 Society and Environment U (3-0) [0.50]

An introduction to the nature and dimensions of the environmental crisis. The values, interests and social institutions (including government and industry) that promote pollution or environmentalism will be considered. Issues to be examined may include global warming, nuclear energy, environmental toxins, species extinction and population growth pressures.

Prerequisite(s): 1 of ANTH\*1150, GEOG\*1220, SOC\*1100

#### SOC\*2390 Class and Stratification U (3-0) [0.50]

An examination of the persistent bases of social inequalities such as wealth, income, power and prestige including class formation, class consciousness, political activity and social mobility.

Prerequisite(s): SOC\*1100

### SOC\*2660 Contemporary Native Peoples of Canada U (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. (Offered in odd-numbered years.)

Prerequisite(s):ANTH\*1150 or SOC\*1100Restriction(s):ANTH\*2660

#### SOC\*2700 Criminological Theory W (3-0) [0.50]

This course will examine the development of criminological theory from the late 1700s to contemporary times.

Prerequisite(s): SOC\*1500

SOC\*2750 Serial Murder S,F,W (3-0) [0.50] This course examines the theoretical and empirical literature on serial murder. It reviews the popular image of serial murder and compares this image with that derived from scholarly investigation. Specific topics include the definition of serial murder, the methods used to detect serial murder, including profiling, and the creation of serial murder typologies. The course does not discuss individual serialists. The course examines how to understand and study serial murder in modern societies. (Offered through distance education format only.) Prerequisite(s): 1 of ANTH\*1150, FRHD\*1010, PHIL\*1010, POLS\*1400, PSYC\*1100, PSYC\*1200, SOC\*1100, SOC\*1500 Restriction(s): Priority Access course. Enrolment may be restricted to particular programs or specializations. Please see the departmental website. SOC\*3040 Sociology of Social Welfare W (3-0) [0.50] This course examines the major factors that shape the welfare state and considers what impact welfare policies have on people. Central to the discussion is welfare in Canada and what changes are desirable and feasible. (Offered in odd-numbered years.) Prerequisite(s): SOAN\*2111/2, SOAN\*2120 SOC\*3110 Comparative Religious Systems W (3-0) [0.50] An analysis of stability and change in patterns of religious beliefs, behaviour and institutions. (Offered in odd-numbered years.) Prerequisite(s): SOAN\*2111/2, SOAN\*2120 SOC\*3130 Politics and Society U (3-0) [0.50] An interpretation of the political process and its relationship to other aspects of the social structure, including such topics as political parties, movements, factions, citizen participation, power structures and the process of political exchange. Prerequisite(s): SOAN\*2111/2, SOAN\*2120 SOC\*3310 Contemporary Theory F (3-0) [0.50] This course outlines and evaluates the major theories in use today. A central aspect of the course is instruction in the application of these theories. Prerequisite(s): SOAN\*2111/2, SOAN\*2120 SOC\*3340 Education, Change and Resistance U (3-0) [0.50] An examination of educational institutions and their relationships to other sectors of society, in particular political and economic. Topics include the nature and objectives of education, equality of opportunity, measures of educational achievement and attainment, manifest and hidden curricula, and public policy. Prerequisite(s): SOAN\*2111/2, SOAN\*2120 SOC\*3380 Society and Nature U (3-0) [0.50]

Classical to contemporary theories of the relations between society and the environment will be examined. These include Cartesian, Puritan, Utilitarian, laissez-faire liberal, Marxist, "deep ecologist" and eco-feminist approaches. Concepts to be explored are ecology, wilderness, growth, sustainability, species, domination, animal rights and stewardship.

Prerequisite(s): 1 of ANTH\*1150, PHIL\*2070, SOC\*1100, SOC\*2280

#### SOC\*3410 Individual and Society U (3-0) [0.50]

Examining social-psychology from the sociological perspective, this course deals with the relation between social and cultural structure, on the one hand, and self or personality on the other. Employing symbolic interactionism and affect control theory, the course shows how social interaction mediated by language is the well-spring of both social cognitions and emotions.

Prerequisite(s): SOAN\*2111/2, SOAN\*2120

SOC\*3490 Law and Society S,W (3-0) [0.50]

This course examines the social basis of law. Specific topics include the law as an instrument of stability or change, and the role of law makers, law enforcers and interpreters, including the legal profession, the police, judges and courts. (Also offered through distance education format.)

Prerequisite(s): (SOAN\*2111/2 or SOC\*2700), SOAN\*2120

*Restriction(s):* Priority Access course. Enrolment may be restricted to particular programs or specializations. Please see the departmental website.

#### SOC\*3710 Young Offenders W (3-0) [0.50]

This course examines concerns about youth crime in Canada and elsewhere. It examines the history of legislation to control youth crime, criminal justice processing and practices, public reactions and concerns about youth crime and theoretical models used to explain youth crime.

 Prerequisite(s):
 (SOAN\*2111/2 or SOC\*2700), SOAN\*2120

 Restriction(s):
 Registration in Anthropology, Criminal Justice & Public Policy or Sociology (major, minor or area of concentration).

SOC*3730 Courts and Society W (3-0) [0.50] This course is an introduction to the social processes involved in the court, particularly	SOC*4200 Advanced Topics in Criminal Justice W (3-0) [0.50]
This course is an introduction to the social processes involved in the court, particularly the criminal court. Typical concerns will be the place of courts in society, public opinion and confidence in courts, purposes and principles of sentencing, sentencing reforms and disparities (e.g., across gender and race), the role of criminal records, juries, the roles of judges, and alternatives to criminal courts. <i>Prerequisite(s):</i> (SOAN*2111/2 or SOC*2700), SOAN*2120	<ul> <li>An in-depth study of issues in criminal justice.</li> <li>Prerequisite(s): (2 of SOC*3490, SOC*3710, SOC*3730, SOC*3740, SOC*3750), (1 of ANTH*3690, SOC*2700, SOC*3310), (SOAN*3120 or POLS*3650)</li> <li>Restriction(s): Registration in Criminal Justice &amp; Public Policy (major, minor or area of concentration).</li> </ul>
<i>Restriction(s):</i> Registration in Anthropology, Criminal Justice & Public Policy or	SOC*4210 Advanced Topics in Rural Sociology U (3-0) [0.50]
Sociology (major, minor or area of concentration).	A critical examination of the research literature in rural sociology, both in industrial and
SOC*3740 Corrections and Penology F (3-0) [0.50] This course will examine the current state of knowledge regarding the role of corrections	industrializing societies.
and penology. It will examine such specific issues as public perception and reaction to	<i>Prerequisite(s):</i> 12.50 credits including (SOAN*2120 or GEOG*2210), SOC*2080
the criminal justice system's methods of punishment and treatment of criminal offenders,	SOC*4230 Comparative Sociology W (3-0) [0.50]
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.	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.)
<i>Prerequisite(s):</i> (SOAN*2111/2 or SOC*2700), SOAN*2120	<i>Prerequisite(s):</i> 12.50 credits including SOAN*2120, SOC*2080
<i>Restriction(s):</i> Registration in Anthropology, Criminal Justice & Public Policy or	SOC*4300 Theoretical and Methodological Issues W (3-0) [0.50]
Sociology (major, minor or area of concentration).	This course will provide an opportunity for sociology majors to consider in detail the
SOC*3750 Police in Society F (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*2111/2 or SOC*2700), SOAN*2120         Restriction(s):       Registration in Anthropology, Criminal Justice & Public Policy or Sociology (major, minor or area of concentration).	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. <i>Prerequisite(s):</i> 15.00 credits including SOAN*3070, SOAN*3120, SOC*3310 <b>SOC*4310 Advanced Topics in Canadian Society U (3-0) [0.50]</b>
	A detailed examination of selected topics in Canadian society such as regional tensions
<b>SOC*3840 Seminar in Sociology F,W (3-0) [0.50]</b> 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	aboriginal issues, implications of free trade, constitutional reform, social programs. <i>Prerequisite(s):</i> 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070, SOC*2010
seminar courses will vary. Students must check with the Department of Sociology and	SOC*4440 Seminar in Sociology F,W (3-0) [0.50]
Anthropology to see when seminar courses are available. <i>Prerequisite(s):</i> 10.00 credits including (1 of SOAN*2111/2, SOC*2080, SOC*2700), SOAN*2120	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 yea seminar courses will vary. Students must check with the Department of Sociology and
SOC*3850 Seminar in Sociology F,W (3-0) [0.50]	Anthropology to see when seminar courses are available.
This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.	Prerequisite(s):       12.50 credits including SOC*3310, SOAN*3070, SOAN*3120         SOC*4540 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 interests of the faculty member teaching the course. Topics will be announced and course interests of the faculty member teaching the course.
Prerequisite(s):         10.00 credits including (1 of SOAN*2111/2, SOC*2080, SOC*2700), SOAN*2120           EOC*2050 Soc         1 D         5 Soc         1 D         5 Soc         1 D         <	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.
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	<i>Prerequisite(s):</i> 12.50 credits including SOC*3310, SOAN*3070, SOAN*3120
<ul> <li>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.</li> <li><i>Prerequisite(s):</i> 10.00 credits</li> <li><i>Restriction(s):</i> Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</li> </ul>	<b>SOC*4640 Seminar in Sociology F,W (3-0) [0.50]</b> 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. <i>Prerequisite(s):</i> 12.50 credits including SOC*3310, SOAN*3070, SOAN*3120
SOC*4010 Violence and Society W (3-0) [0.50]	SOC*4700 Seminar: Theoretical Issues in Sociology U (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):       15.00 credits including (SOC*2700 or SOC*3310), (SOAN*3120 or POLS*3650)         Restriction(s):       Registration in Anthropology, Criminal Justice & Public Policy or	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. <i>Prerequisite(s):</i> 12.50 credits including SOC*3310, SOAN*3070, SOAN*3120 <b>SOC*4740 Seminar in Sociology F,W (3-0) [0.50]</b> 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
Sociology majors.	seminar courses will vary. Students must check with the Department of Sociology and
SOC*4030 Advanced Topics in Criminology F (3-0) [0.50]	Anthropology to see when seminar courses are available.
An in-depth study of selected issues in criminology. Prerequisite(s): (2 of SOC*3490, SOC*3710, SOC*3730, SOC*3740, SOC*3750), (1 of ANTH*3690, SOC*2700, SOC*3310), (SOAN*3120 or	<i>Prerequisite(s):</i> 12.50 credits including SOC*3310, SOAN*3070, SOAN*3120
POLS*3650) Restriction(s): Registration in Criminal Justice & Public Policy (major, minor or area of concentration).	

SOC*4840 Sem	inar in Sociology F,W (3-0) [0.50]
interests of the fa outlines will be seminar courses Anthropology to	be offered as a structured seminar on various topics depending upon the iculty member teaching the course. Topics will be announced and course available at course selection. The availability of third and fourth year will vary. Students must check with the Department of Sociology and see when seminar courses are available.
1 ,	12.50 credits including SOC*3310, SOAN*3070, SOAN*3120
_	ial Projects in Sociology S,F,W (3-0) [0.50]
with an opportur knowledge. Und regular upper-lev	y/reading course option is designed to provide advanced undergraduates nity to explore independently the frontiers and foundations of a field of er supervision, the student will study in greater depth topics related to vel courses offered in the department which the student has taken or is on of the instructor who will be supervising the project is required.
Prerequisite(s): Restriction(s):	12.50 credits Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.
SOC*4890 Spec	ial Projects in Sociology S,F,W (3-0) [0.50]
with an opportur knowledge. Und regular upper-lev	y/reading course option is designed to provide advanced undergraduates hity to explore independently the frontiers and foundations of a field of er supervision, the student will study in greater depth topics related to vel courses offered in the department which the student has taken or is on of the instructor who will be supervising the project is required. 12.50 credits Instructor consent required. Please note, a student is allowed a total of
Kesinciion(s).	1.00 credits only for reading courses.
SOC*4900 Hon	ours Sociology Thesis I S,F,W (3-0) [0.50]
1	d design of an honours thesis proposal conducted under the supervision aber. Recommended to Honours students.
Prerequisite(s):	15.00 credits including SOC*3310, SOAN*3070, SOAN*3120. CJPP students must have 15.00 credits including SOC*2700, SOAN*3120, or POLS*3650
Restriction(s):	A cumulative average of 70% in all Sociology and Anthropology courses. Instructor consent required
SOC*4910 Hon	ours Sociology Thesis II S,F,W (3-0) [0.50]
	ours Sociology Thesis II S,F,W (3-0) [0.50] presentation of honours thesis.

# 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 global restructuring as these shape gender dynamics. (In spring semester offered through distance education format only.)

#### *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*2111/2, SOAN*2400), (SOAN*2120 or
	WMST*3000)
Restriction(s):	FRHD*3120

кезинснон(s). FKПD\*31.

# 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\*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, SOC\*2080

#### SOAN\*3460 Ethnicity and Aging W (3-0) [0.50]

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\*2111/2, 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, 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\*4240 Women and the Development Process U (3-0) [0.50]

To increase students' understanding of the relation of socio-economic, political and cultural changes on the roles of women in "developing areas" and how women, in turn, affect socio-economic changes.

*Prerequisite(s):* 12.50 credits including (1 of ANTH\*3400, IDEV\*2010, SOAN\*3680), (1 of SOAN\*3070, SOAN\*3120, WMST\*3000)

#### SOAN\*4320 Transition from School to Work W (3-0) [0.50]

This applied course examines the evolving research and models in the transitions from school to work area. There is an evolving literature in this area based, in part, on the successful application of research in the transition from high school to postsecondary education. This 'capstone' course also considers the practical issues involved in making such a move, considering the knowledge, skills, and values needed by university students to succeed in the modern workplace (public, private, and not-for-profit sectors) in Canada. Students will complete an "Action Sociology/Anthropology Project," as well as a "Skills Portfolio," and other work related to their own transition.

*Restriction(s):* Registration in Sociology, Anthropology or Criminal Justice & Public Policy majors in semester 7 or 8.

#### SOAN\*4500 Community Development U (3-0) [0.50]

An analysis of approaches to community development defined as planned, change-directed action undertaken by individuals, groups and organizations. The course will include the examination of actual community development practices.

*Prerequisite(s):* (1 of ANTH\*2160, IDEV\*2010, SOC\*2080), (GEOG\*2210 or SOAN\*2120)

*Restriction(s):* SOAN\*3300

#### 500 XII. Course Descriptions, Soil Science SOIL\*3200 Environmental Soil Biology W (3-3) [0.50] **Soil Science** Soil biological processes involving both microflora and fauna with emphasis on waste Department of Land Resource Science management, soil fertility and structure, plant residue decomposition and xenobiotic SOIL\*2010 Soil Science W (3-2) [0.50] compound biodegradation. Students will apply this knowledge in a project involving An introduction to the principles of soil science - the origin of soils, their classification biodegradation of an organic waste. and interpretation in natural and modified environments. Soil will be studied as a product Prerequisite(s): 10.00 credits including AGR\*2301/2 or SOIL\*2010 of the natural environment, with a focus on formation processes and changes which occur SOIL\*3300 Land Resource Stewardship S (3-0) [0.50] when it is modified through use. A variety of uses including agriculture, forestry, This course will examine 'stewardship' programs as an approach to environmental recreation, and urban development will be considered. This course is not for B.Sc.(Agr.) conservation in both the agricultural and natural resource conservation sectors in Canada. students. (Also offered through distance education format.) It will focus on the central role of private landowners, with emphasis on the voluntary SOIL\*2120 Introduction to Environmental Stewardship F (3-2) [0.50] policy perspective of stewardship programs in comparison to regulatory perspectives. An introduction to the concepts of resources management, environmental planning and As well, it will examine the non-government organizations such as land trusts and farm assessment, land stewardship and sustainable development. Case studies of specific issues organizations that often run stewardship programs. Programs addressing environmental conservation issues in agriculture, forestry, fisheries, wildlife, habitat conservation, and such as parks and natural heritage conservation, agricultural land loss, and integrated rural resources management will provide insight on approaches to decision making. species at risk will be considered. (Offered through distance education format only.) Discussion of the concept of stewardship as an environmental ethic. (Also offered through *Prerequisite(s):* SOIL\*2120 or SOIL\*2200 distance education format.) SOIL\*3600 Remote Sensing W (3-3) [0.50] SOIL\*3000 Environmental Issues in Agriculture and Landscape Management W An introduction to remote sensing, as applied to the study and monitoring of the (3-2) [0.50] biophysical environment (atmosphere, vegetation, soil, hydrology, geology). Relevant This course provides an introduction to a range of specific environmental and resource conventional photographic techniques are examined, but current analog and digital issues in agriculture and landscape management. Issues to be covered include geological imaging technologies are emphasized. Attention is given to both airborne and resources, climate change, nutrient management, groundwater contamination, source earth-orbiting imaging platforms. Key aspects of computerized image analysis are covered. water protection, land use planning, and natural resources management. Practical experience is gained through the interpretation of high-resolution digital imagery, *Prerequisite(s):* AGR\*2320 or SOIL\*2010 using industry-standard commercial software. Equate(s): AGR\*2301, SOIL\*2200 Prerequisite(s): 10.00 credits (recommend: 1 of GEOG\*2420, AGR\*2301/2, SOIL\*3030 Tutorials in Organic Agriculture 1 F (3-2) [0.50] AGR\*2320, SOIL\*2010) Restriction(s): Priority Access course. Enrolment may be restricted to particular Building on the introductory exposure offered in CROP\*2050, this course will rely on programs or specializations. See department for more information. lectures and small group mentoring to stimulate independent, learner-centered analysis of selected topics in organic agriculture. Students will participate in an interdisciplinary SOIL\*4070 Problems in Land Resource Science S,F,W (0-6) [0.50] analysis of case-study topics offered in the form of two,6 week modules on biophysical Students will carry out a research project in an area of special interest. Individualized and social issues, including composting and crop rotations as well as socio-political and supervision will be provided by a faculty member. The preparation of an oral and/or marketing forces bearing on organics. The goal is to encourage holistic, systematic written report will be required. Approval to take this course must be obtained from the thinking in students learning to become self-directed analysts and decision-makers. Department Chair during the previous semester. Seminar periods will support both guest speakers and student presentations. Prerequisite(s): AGR\*2320 or ENVS\*2010 and 1.00 credits at the 3000 or higher level Prerequisite(s): CROP\*2050 in soil science, geology or meteorology SOIL\*3050 Land Utilization F (3-1) [0.50] Restriction(s): Department chair consent required. Principles of land utilization and planning at the global, national, regional and local levels. SOIL\*4090 Soil Management F (3-1) [0.50] Land characterization and classification using photo-interpretive techniques and A lecture-tutorial course on the practical aspects of soil management for crop production computerized soil survey interpretive programs. Land capability/suitability for agriculture, as they relate to the physical, chemical and biological properties of soils; major emphasis forestry and engineering purposes. Emphasis on specific land use issues in Canada. is placed on soil fertility as related to field soil properties and fertilizer, lime and manure Prerequisite(s): 1 of AGR\*2301/2, AGR\*2320, GEOG\*1300, GEOL\*1000, use, soil and plant testing for mineral nutrients. The beneficial aspects of drainage, SOIL\*2010 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 SOIL\*3060 Environmental Soil Chemistry F (3-2) [0.50] practices. The formation and properties of clay minerals and organic matter; ionic exchange, soil Prerequisite(s): 1 of AGR\*2301/2, AGR\*2320, SOIL\*2010 acidity, and alkalinity, oxidation and reduction potential, and dissolution and precipitation. SOIL\*4110 Natural Resources Management Field Camp F (0-6) [0.50] Laboratory sessions will illustrate principles of soil chemistry. Prerequisite(s): 1 of AGR\*2301/2, AGR\*2320, SOIL\*2010 A course directed toward investigating methods of collecting and processing land resource field data. Practice in mapping information from air photographs and ground surveys, SOIL\*3070 Environmental Soil Physics F (3-3) [0.50] construction of inventory maps and integration of information. The course will consist Practical aspects of water movement and contaminant transport in soils. Hands-on of a one week field camp prior to the fall semester, following which the students, working experience with standard laboratory and field methods of measuring soil physical in groups, will prepare and present a comprehensive report in consultation with faculty. properties. Applications of soil physics in characterizing pathogen and nutrient transport Students will be responsible for their living and transportation expenses for the field to groundwater, landfill cap and linear design, turf management. session, in addition to regular tuition fees. The course may be offered with different Prerequisite(s): 1 of MATH\*1080, AGR\*2301/2, SOIL\*2010 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 SOIL\*3080 Soil and Water Conservation F (2-3) [0.50] during the previous Winter semester (or earlier if going on exchange programs). A lecture-demonstration course on the processes leading to deterioration of soil and water *Prerequisite(s):* SOIL\*3100 quality, the impact of deterioration on use, and preventative or corrective measures. Soil Registration in B.Sc.Env.NRM and B.Sc.Agr.AGMN students. Restriction(s): erosion by water and wind, soil compaction and salinization. Drainage channel SOIL\*4160 Design of Organic Production Systems F (2-3) [0.50] maintenance, sedimentation and nutrient enrichment of water. Conservation programs and policies. Reclamation of severely disturbed soils and saline-sodic soils. Emphasis This interdisciplinary course calls upon students to use the analytical framework developed will be on concepts and solutions to problems in a systems approach. (Also offered in Tutorials in Organic Agriculture I and II to apply organic principles to managed through distance education format.)

Prerequisite(s): 1 of AGR\*2301/2, AGR\*2320, SOIL\*2010

SOIL\*3100 Resource Planning Techniques W (2-2) [0.50]

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

Prerequisite(s): (1 of AGR\*2350, CROP\*4220, SOIL\*3170) or (CROP\*3130, SOIL\*3030)

vegetables), and livestock (beef, sheep, dairy, pigs, chickens).

agroecosystems. The course covers the interactions of soils, plants, microbes, and animals

with management and environmental factors related to annual and perennial crops and livestocks. The core principle of problem avoidance rather than problem solving is

illustrated with practical examples from such dimensions as integration of crop and

livestock agriculture, farm-scale nutrient budgeting, permaculture, and herd health in the

production of organic field crops (grains and oilseeds), horticultural crops (fruit and

#### 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 (micropedology) 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.

Spanish Studies	SPAN*3170 Spanish Drama: Women, Virtue, Honour F (3-0) [0.50]
School of Languages and Literatures	This topic-oriented course will study the code of Honour in major Golden Age dramas
All courses are conducted in Spanish (reading , writing and speaking), and literary texts	and twentieth-century plays. Playwrights and plays to be studied may include: Lope de Vega's Fuenteovejuna, Calderon's Life is a Dream, Tirso de Molina's Don Juan, The
are, at all levels, studied in the original language.	House of Bernardo Alba, Jerma, and Blood Wedding by Garcia Lorca. These texts wil
SPAN*1100 Introductory Spanish F,W (3-1) [0.50]	also be studied for their influence on world literature. (Offered in even-numbered years.)
This course provides the basics of spoken and written Spanish for students with no	Prerequisite(s): SPAN*2990
previous studies in the language. (Also offered through distance education format).	Restriction(s): HUMN*3170
SPAN*1110 Intermediate Spanish F,W (3-1) [0.50] This is a continuation of SPAN*1100 with emphasis on oral work. (Also offered through	SPAN*3180 Cuento/Journalism Spanish American W (3-0) [0.50] Most Latin American writers started their careers as journalists, and short stories by Jorge
distance education format).	Luis Borges, Julio Cortázar, Gabriel Garcia Márquez, Elena Poniatowska, Luisa
Prerequisite(s): SPAN*1100	Valenzuela, and Isabel Allende were published in daily newspapers. One of the results
SPAN*2000 Spanish Language I F,W (3-1) [0.50]	of the close link between journalism and fiction is a deep sense of social responsibility in modern non-representational literature. This course will study twentieth-century Latir
This is a course designed to develop proficiency in reading, writing, understanding and	American short stories for their artistic merits, and for their other links to journalistic
speaking Spanish including conversation, grammar and language laboratory practice.	discourse. (Offered in even-numbered years.)
Prerequisite(s): Grade 12 (4U) Spanish or SPAN*1110 (or equivalent)	Prerequisite(s): SPAN*2990
SPAN*2010 Spanish Language II F,W (3-1) [0.50]	Restriction(s): Instructor consent required.
This is a continuation of SPAN*2000.	SPAN*3300 Modern Spanish American Prose F (3-0) [0.50]
Prerequisite(s): SPAN*2000	A study, through selected texts, of the most important aspects of Spanish American Prose up to 1940. Authors studied may include Maria Luisa Bombal, Horacio Quiroga, Jorge
SPAN*2040 Spanish Civilization F (3-0) [0.50]	Icaza, Romulo Gallegos and Ricardo Guiraldes. The course will emphasize themes such
An examination of the historical and cultural events that provided the background for the development of modern Spain, as well as a visual survey of Spanish culture.	as rural life, the role of native peoples, and changing attitudes to concepts such as nationa identity, urbanization and literary technique. (Offered in odd-numbered years.)
Prerequisite(s): SPAN*1110 or 4U Spanish	Prerequisite(s): SPAN*2990
Restriction(s): Instructor consent required.	Restriction(s): Instructor consent required.
SPAN*2990 Hispanic Literary Studies W (3-0) [0.50]	SPAN*3320 Spanish American Fiction Since 1990 W (3-0) [0.50]
An introduction to literary studies in Spanish. The course focuses on critical terminology	This course provides a detailed study of fiction to emerge from Spanish America since
and methods through a selection of prose, poetry and drama from Spain and Spanish	1990, concentrating on themes such as immigration, the breakdown of traditional cultural identities assesses to append the influence of alphalization and appropriate the influence of alphalization and appropriste
America.	identities, responses to neo-liberal ideology and the influence of globalization and popular culture on literary production. (Offered in even-numbered years.)
Prerequisite(s): SPAN*1110 or 4U Spanish Restriction(s): Instructor consent required.	Prerequisite(s): SPAN*2990
SPAN*3080 Spanish American Culture W (3-0) [0.50]	SPAN*3500 Spanish Grammar and Composition I F (3-0) [0.50]
A survey through selected readings, class discussion and audio-visual materials of the	An advanced language course that focuses on the refinement of students' written and
Spanish American countries, their histories, society, institutions and culture.	verbal communication skills in Spanish.
Prerequisite(s):         SPAN*1110 or 4U Spanish           Restriction(s):         Instructor consent required.	Prerequisite(s): SPAN*2010
Restriction(s):       Instructor consent required.         SPAN*3110 Spanish Literature F (3-0) [0.50]	SPAN*3530 Business Spanish W (3-0) [0.50]
This course will study the works of prominent 20th-century poets in the context of the	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
artistic environment of Europe as reflected in the theatre, art and film of the first two	business or win over a cassion as administrative correspondence, reports, emproyment business communication and advertising.
decades of the 20th century. Focus will be on poets including: Garcia Lorca, Vicente	Prerequisite(s): SPAN*3500
Aleixandre, Gerardo Diego; painters Salvador Dali and Pablo Picasso, and film director Luis Buñuel. (Offered in even-numbered years.)	SPAN*3800 Directed Readings in Spanish Studies U (3-0) [0.50]
Prerequisite(s): SPAN*2990	A reading course in Spanish or Spanish American literature designed according to the
Restriction(s): Instructor consent required.	previous studies and the interests of the individual student. Normally, students will no
SPAN*3120 Post-Civil War Literature and Film W (3-0) [0.50]	be permitted to take more than two courses in the Directed Readings sequence. <i>Prerequisite(s):</i> 1.00 credits in Spanish literature at the 3000 level
This course examines contemporary Spanish Literature and film from a socio-political	Restriction(s): Instructor consent required.
perspective. It will focus on the following topics: the impact on narrative and theatre of socio-cultural upheavals in the aftermath of the civil war; the role in the aesthetics of	SPAN*3810 Directed Readings in Spanish Studies U (3-0) [0.50]
both film and literature of the Franco dictatorship and censorship in particular; the	A reading course in Spanish or Spanish American literature designed according to the
importance of post-Franco liberalization on women's creative work. (Offered in	previous studies and the interests of the individual student. Normally, students will no
odd-numbered years.)	be permitted to take more than two courses in the Directed Readings sequence.
Prerequisite(s): SPAN*2990 Restriction(s): Instructor consent required.	Prerequisite(s):       1.00 credits in Spanish literature at the 3000 level         Restriction(s):       Instructor consent required.
SPAN*3130 Women in Modern Spanish Fiction W (3-0) [0.50]	SPAN*3820 Directed Readings in Spanish Studies U (3-0) [0.50]
A study of the representation of women in Spanish literature through the analysis and	A reading course in Spanish or Spanish American literature designed according to the
interpretation of Spanish 19th-century novels. (Offered in even-numbered years.)	previous studies and the interests of the individual student. Normally, students will not
Prerequisite(s): SPAN*2990	be permitted to take more than two courses in the Directed Readings sequence.
Restriction(s): Instructor consent required.	<i>Prerequisite(s):</i> 1.00 credits in Spanish literature at the 3000 level <i>Restriction(s):</i> Instructor consent required.
SPAN*3160 Contemporary Latin American Fiction W (3-0) [0.50]	SPAN*3850 Revolutionary Poetry and Poetic Revolution in Spanish America F (3-0
This course will examine why and how the leading figures, such as Borges, Cortazar, Garcia Marquez, Carpentier and Isabel Allende, have "made" history, not only in the	[0.50]
way they have recreated the Latin American historical reality, but also in the way they	This course studies the poetry that has emerged from revolutionary movements in Cuba
have reformed the Hispanic literature. (Offered in odd-numbered years.)	Nicaragua, Chile and elsewhere, situating this poetry in the context of the search for new poetic forms. (Offered in even-numbered years.)
Prerequisite(s): SPAN*2990 Restriction(s): HUMN*3160	Prerequisite(s): SPAN*2990 or instructor consent required.
resultant(s). HOIMIN 5100	rerequisite(s). SITH 2770 OF monuclor consent required.

#### SPAN\*4170 Don Quixote and the Picaresque Novel F (3-0) [0.50]

This course will study the birth of the modern novel. This Spanish masterpiece and first European picaresque work will be examined from the point of view of play, laughter and narrative structure and composition. (Offered in odd-numbered years.)

*Prerequisite(s):* SPAN\*2990 *Restriction(s):* HUMN\*4170

#### SPAN\*4200 Spanish American Sociolinguistics F (3-0) [0.50]

This course will study language variation in Latin American Spanish in its social context. Major topics include theoretical and practical concepts of linguistic variation, linguistic change, standard, prescriptive versus non-prestigious varieties, bilingualism, diglossia, language attitude, code-switching, language planning, conversation analysis and language shift. (Offered in odd-numbered years.)

*Prerequisite(s):* SPAN\*2010, LING\*1000

#### SPAN\*4500 Spanish Translation and Composition I F (3-0) [0.50]

An advanced composition course, with intensive written and oral practice with an emphasis on translation.

*Prerequisite(s):* SPAN\*3530

#### SPAN\*4520 Spanish Translation and Composition II W (3-0) [0.50]

A continuation of the work done in SPAN\*4500, developing creative oral and written expression with an emphasis on translation.

*Prerequisite(s):* SPAN\*4500

SPAN\*4840 Research Paper in Spanish Studies U (3-0) [0.50]

A research paper in Spanish on any language or literature subject approved by the department. This paper will be the equivalent of a semester course.

#### XII. Course Descriptions, Statistics

# **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\*2050 or STAT\*2090 and only 1 of STAT\*2040, STAT\*2060, STAT\*2080, STAT\*2100 , STAT\*2120.
- 3. Graduate students may be admitted to later parts of a sequence by permission of the department.
- 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 Advanced Functions and Calculus, OAC calculus, equivalent

 Restriction(s):
 STAT\*1000, STAT\*2060, STAT\*2080, STAT\*2100, STAT\*2120

#### STAT\*2050 Statistics II S,F,W (3-2) [0.50]

The methods of STAT\*2040 are extended to the multi-sample cases. Methods include: simple and multiple regression analysis including ANOVA and lack-of-fit; experimental design including analysis for CRD, RCBD, LSD, SPD and factorial experiments with interaction; ANCOVA; Bioassay. Assignments employing data from the natural sciences will be processed in the microcomputer laboratory.

Prerequisite(s):STAT\*2040 or STAT\*2100 (or equivalent)Restriction(s):STAT\*2090, STAT\*2250

STAT\*2060 Statistics for Business Decisions W (3-2) [0.50]

A course 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):* (1 of 4U mathematics, OAC mathematics, equivalent) or 0.50 credit in mathematics

Restriction(s): STAT\*1000, STAT\*2040, STAT\*2080, STAT\*2100, STAT\*2120

#### STAT\*2080 Introductory Applied Statistics I F (3-2) [0.50]

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. Illustrated with examples from a variety of disciplines, including family studies, education, marketing, medicine, psychology and sociology.

Prerequisite(s):	(1 of 4U mathematics, OAC mathematics, equivalent) or 0.50 credit
	in mathematics

*Restriction(s):* STAT\*1000, STAT\*2040, STAT\*2060, STAT\*2100, STAT\*2120

### STAT\*2090 Introductory Applied Statistics II W (3-2) [0.50]

Design of sample surveys. Analysis of qualitative data. Analysis of variance for designed experiments. Multiple regression and analysis of covariance. Some non-parametric methods. Survey of special topics such as factor analysis and cluster analysis.

*Prerequisite(s):* STAT\*2080 *Restriction(s):* STAT\*2050

#### STAT\*2120 Probability and Statistics for Engineers W (3-1) [0.50]

Sample spaces. Probability, conditional probability, independence. Bayes' theorem. Probability distributions. Probability densities. Algebra of expected values. Descriptive statistics. Inferences concerning means, variances, and proportions. Curve fitting, the method of least squares, correlation. Introduction to quality control and reliability. Recommended especially for students in the B.Sc.(Eng.) program.

*Prerequisite(s):* 1 of MATH\*1010, MATH\*1210, MATH\*2080, IPS\*1210 *Restriction(s):* STAT\*1000, STAT\*2040, STAT\*2060, STAT\*2080, STAT\*2100 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. Weekly computer laboratory sessions will focus on practical data visualization and statistical analysis using computer statistical packages. Simple parametric and nonparametric methods are reviewed, followed by more advanced topics that will include some or all of the following: two factor ANOVA and multiple regression, and introductions to discriminant analysis, cluster analysis, principal components analysis, logistic regression, and resampling methods. (Also listed as BIOL\*2250.) Departments of Mathematics and Statistics and Zoology.

Prerequisite(s):	STAT*2040 or STAT*2100
Equate(s):	BIOL*2250
Restriction(s):	STAT*2050

#### STAT\*3100 Introductory Mathematical Statistics I F (3-0) [0.50]

STAT\*2250 Biostatistics and the Life Sciences W (3-2) [0.50]

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): (IPS\*1210 or MATH\*1210), (STAT\*2040 or STAT\*2100)

#### 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]

Theory and applications of regression techniques; linear, non-linear and multiple regression and correlation; analysis of residuals; other statistical techniques including: response surfaces and covariance analysis, prediction and time-series analysis. The computer lab involves interactive data analysis and investigation of the methodology using SAS and/or S-PLUS statistical software.

Prerequisite(s): (IPS\*1210 or MATH\*1210), (MATH\*2150 or MATH\*2160, may be taken concurrently or with instructor consent), (STAT\*2050 or STAT\*2100)

#### STAT\*3320 Sampling Theory with Applications F (3-0) [0.50]

Non-probability and probability sampling. Simple random sampling, stratified sampling, cluster sampling, systematic sampling, double sampling, two-phase sampling, multi-stage cluster sampling. Expectation and variance estimation procedures and applications of above techniques.

*Prerequisite(s):* (IPS\*1210 or MATH\*1210), (1 of STAT\*2050, STAT\*3240, STAT\*3100)

#### STAT\*3510 Environmental Risk Assessment W (3-0) [0.50]

Contemporary statistical methods for assessing risk, including dose-response models, survival analysis, relative risk analysis, bioassay, estimating methods for zero risk, trend analysis, survey of models for assessing risk. Case studies illustrate the methods.

*Prerequisite(s):* (1 of IPS\*1110, MATH\*1000, MATH\*1080, MATH\*1200), (STAT\*2050 or STAT\*2250)

STAT\*4050 Topics in Applied Statistics I W (3-0) [0.50]

Topics such as statistical computing procedures, quality control, bioassay, survival analysis and introductory stochastic processes. Intended for statistics students and interested students in other disciplines with 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 W (3-0) [0.50]

Same as for STAT\*4050. (Offered in even-numbered years.)

Prerequisite(s): STAT\*3110, STAT\*3240

#### STAT\*4080 Data Analysis F (3-2) [0.50]

Principles of statistical modelling; the likelihood function; model fitting; model choice; analysis of non-normal data; generalized linear models; binomial regression models; regression models for counts; Poisson and multinomial data; overdispersion. Statistical modelling and analysis using appropriate software (eg. Splus and/or SAS) in the computing lab.

Prerequisite(s): (MATH\*2150 or MATH\*2160), STAT\*3110, STAT\*3240

### STAT\*4100 Survival Analysis W (3-1) [0.50]

Theory and methodology of survival analysis. A set of techniques for modelling the time of a well-defined event (typically failure or death), and for dealing with censored data. The emphasis will be on regression, including parametric, proportional hazards and accelerated life regression models. Areas of application include environmental sciences, medicine, industrial reliability, and economics, where the events of interest may be respectively early death, organ failure, component failure, or strikes. Students will learn specialized techniques for modelling censored data and understand why they are necessary. The interpretation of real data will be emphasized throughout the course. Statistical computing packages (S-Plus or SAS) will be used extensively.

Prerequisite(s): STAT\*3110 and STAT\*3240

#### STAT\*4340 Statistical Inference W (3-0) [0.50]

This course on methods of statistical inference reviews and extends the theory of estimation introduced in STAT\*3110: interval estimation tests for simple and composite hypotheses, likelihood ratio tests. Recent likelihood concepts as well as classical large sample theory, asymptotics and approximations and their applications are covered. This material is directly relevant to current research and applications in areas as diverse as survival analysis, nonparametric regression and environmetrics.

*Prerequisite(s):* STAT\*3110, STAT\*3240

#### STAT\*4350 Applied Multivariate Statistical Methods F (3-0) [0.50]

Samplings from the multivariate normal distribution, Wishart and Hotelling's T@ distribution statistical inference on the mean vector, canonical correlations, multivariate analysis of variance and covariance, multivariate regression, principal components analysis, 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

Х	I. Course Descriptions, Studio Art

506	XII. Course Descriptions, Studio Art
Studio Art	SART*2800 Extended Practices I F,W (0-6) [0.50]
<ul> <li>School of Fine Art and Music</li> <li>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: <ol> <li>are currently registered in the Art History or Studio Art Specializations of the Bachelor of Arts Program;</li> <li>have an average of 70% in all ARTH and SART course attempts;</li> </ol> </li> </ul>	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. <i>Prerequisite(s):</i> SART*1050 or SART*1060
3. have completed both SART*1050 and SART*1060.	Restriction(s): Registration in semesters two to five.
Studio supplies: The majority of the cost of supplies must be borne by the student. In order to permit the University to subsidize this cost and to allow for savings through discount buying, some materials are obtained through the School of Fine Art and Music by payment of a lab fee. The amount of the fee is established for each semester prior to registration. Note: Due to limited faculty resources and facilities, enrolment in these courses may be restricted to Studio Art majors or minors. SART*1050 Integrated 2-D Media F,W (0-6) [0.50]	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):       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.
A studio-based investigation into the fundamental concepts, principles and elements of two-dimensional visual structure and expression. Assigned projects, in-class exercises,	SART*3200 Painting II F,W (0-6) [0.50]
Solution       State and expression. Assigned projects, in-class exercises, slides, lectures and critiques will introduce the student to aspects of both traditional and contemporary practice.         Restriction(s):       Registration in semesters one, two, three or four. May not register in SART*1060 in same term.         SART*1060 Media Convergence F,W (0-6) [0.50]         An introduction to the basic aspects of three-dimensional and time-based art production. Various topics, materials, and diverse approaches will be investigated through assigned problems, lectures, and critiques.	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 painter in the late 20th century. <i>Prerequisite(s):</i> SART*1050, SART*1060, SART*2200 <i>Restriction(s):</i> Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average
Equate(s): SART*2040	of 70% in all ARTH and SART course attempts.
<i>Restriction(s):</i> Registration in semesters one, two, three or four. May not register in SART*1050 in same term.	SART*3300 Sculpture II F,W (0-6) [0.50]
SART*2090 Drawing I F,W (0-6) [0.50]	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
An introduction to the basic concepts, techniques and media of drawing, through disciplined observational and imaginative study. <i>Prerequisite(s):</i> SART*1050 or SART*1060 SART*2200 Painting I F,W (0-6) [0.50]	<ul> <li>creation of objects.</li> <li>Prerequisite(s): SART*1050, SART*1060, SART*2300</li> <li>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.</li> </ul>
Introduces various technical and aesthetic issues of painting, with an emphasis placed	SART*3410 Intaglio W (0-6) [0.50]
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. <i>Prerequisite(s):</i> SART*1050 SART*2300 Sculpture I F,W (0-6) [0.50]	<ul> <li>In-depth investigation into aspects of intaglio printmaking.</li> <li>Prerequisite(s): SART*1050, SART*1060, (SART*2460 or SART*2470)</li> <li>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.</li> </ul>
An introduction to contemporary sculptural concerns through projects and readings.	SART*3450 Lithography F (0-6) [0.50]
Students will be actively engaged in exploring a variety of materials and ideas including modular construction, casting, and scale exercises.	In-depth exploration of the art of lithography.
Prerequisite(s):       SART*1060         SART*2460 Introductory Printmaking I F (0-6) [0.50]         An introduction to the traditional printmaking media of intaglio and relief printing.	Prerequisite(s):       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.
Prerequisite(s): SART*1050	SART*3470 Photo-Printmaking W (0-6) [0.50]
SART*2470 Introductory Printmaking II W (0-6) [0.50] An introduction to the techniques of the traditional printmaking media of lithography and silkscreen. Prerequisite(s): SART*1050	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.) <i>Prerequisite(s):</i> SART*1050, SART*1060, (SART*2460 or SART*2470)
SART*2610 Photography I F,W (0-6) [0.50]	Restriction(s): Registration is limited to students registered in the Art History or Studio
An introduction to the creative application of photography in art; and, the basic principles of dark-room and camera skills.	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]
Prerequisite(s):         SART*1050 or SART*1060           Restriction(s):         Registration in semesters two to five.	An in-depth study of website design using professional web authoring software. Students
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):       SART*1050         SART*2710 Drawing Graphics on the Computer W (0-6) [0.50]	<ul> <li>will design and create a website which explores a contemporary issue in their art practice.</li> <li><i>Prerequisite(s):</i> SART*1050, SART*1060, (SART*2700 or SART*2710)</li> <li><i>Registration is limited to students registered in the Art History or Studio</i> Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.</li> </ul>
This course introduces digital drawing on the computer, translating traditional media into complex vector graphics. Some computer experience is recommended. <i>Prerequisite(s):</i> SART*1050	

,	ital & Non-Silver Photography F (0-6) [0.50]		ecial Topics in Painting W (0-6) [0.50]
photographic con basis for aesthet	an initiation to non-silver and digital processes as an expansion of neepts introduced in SART*2610. These techniques will serve as the ic investigation into the formal, conceptual, technical and theoretical		urse which focuses on a specific theme, subject, or technique in painting. ude the figure and narrative in painting, the landscape in contemporary Abstraction.
	historic and new technologies in photographic practice.	Prerequisite(s):	
	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
	otography II F,W (0-6) [0.50]		of 70% in all ARTH and SART course attempts.
	tion of expressive, formal and technical aspects of photography. Students prerequisite but with equivalent experience should consult the instructor.	SART*4300 Scu	llpture III F,W (0-6) [0.50]
	SART*1050, SART*1060, SART*2610	Contemporary is	ssues in sculpture will be addressed through at least 2 studio projects
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.	the instructor. Intencouraged.	response installation, and an independent work in close consultation with terdisciplinary projects based on the students' own research are strongly
SART*3770 Ext	tended Practices II F,W (3-0) [0.50]	Prerequisite(s): Restriction(s):	SAR1*3300 Registration is limited to students registered in the Art History or Studio
or combination	sed projects encourage students to choose the most appropriate medium of media for each assignment. Students may pursue and perfect one e a more interdisciplinary approach (artists multiples, installation,		Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.
	leo, alternative venues, relational art or a combination of approaches).		ulpture IV F,W (0-6) [0.50]
Prerequisite(s): Restriction(s):	SART*1050, SART*1060, SART*2800 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.	sculpture with att Interdisciplinary Prerequisite(s):	
SART*3800 Exp	periential Learning F,W (0-0) [0.50]	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
	tudy course based on either Studio Art related voluntary or paid practical		Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.
	uation will be based on assignments related to work duties. Written d by the instructor, must be submitted to the Director for the School for	SART*4410 Ex	perimental Printmaking F,W (0-6) [0.50]
	last day of course selection in the Fall (for Winter) or Winter (for the		ations into traditional and photo based printing media. Use of computer nent the design process.
Prerequisite(s): Restriction(s):	3.00 credits in Studio Art 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	Prerequisite(s): Restriction(s):	3 of SART*2460, SART*2470, SART*3410, SART*3450, SART*3470 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.
	required.	SART*4450 Ad	vanced Printmaking F,W (0-6) [0.50]
SART*4090 Dra	awing III F (0-6) [0.50]		epth investigation into various printmaking media, including the use of
Observational dr studied with a vie within drawings <i>Prerequisite(s):</i>	he various skills and technical issues necessary to the making of drawings. rawing from the model, still life, natural forms, and interiors will be two to understanding the language and philosophical implications inherent of different styles. SART*3090	1 0 1	ics and advanced manipulation of photo based images to create a erent portfolio of prints. SART*4410 Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average
Restriction(s):	Registration is limited to students registered in the Art History or Studio		of 70% in all ARTH and SART course attempts.
	Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.	-	pics in Extended Practices F (0-6) [0.50]
An advanced drav	awing IV W (0-6) [0.50] wing course which explores a wider range of graphic experience including	will vary accordi available in the c	d course, the specific theme, subject, or technique in extended practices ng to the instructor or instructors and will consist of topics not otherwise urriculum. Topics may include Performance Art, Installation, Interactive
abstract, imagina our own time.	ary and other non-representational approaches to graphic discipline in	Art, Relational A Prerequisite(s):	Art, Alternative Venues and Artists Multiples.
Prerequisite(s): 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	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.
	of 70% in all ARTH and SART course attempts.	SART*4670 Toj	pics in Extended Practices F (0-6) [0.50]
A further extension technical and aes observational pa	nting III F (0-6) [0.50] on of the work begun in SART*2200 and SART*3200. While the various sthetic issues will continue to be investigated through the discipline of inting there will be more emphasis on the critical issues relevant to inting and allowance for personal expression through both abstract and modes.	will vary accordi available in the c	d course, the specific theme, subject, or technique in extended practices ng to the instructor or instructors and will consist of topics not otherwise urriculum. Topics may include Performance Art, Installation, Interactive Art, Alternative Venues and Artists Multiples. SART*3770 Registration is limited to students registered in the Art History or Studio
Prerequisite(s): Restriction(s):	SART*3200, SART*3210 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.
	Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.		otography III F,W (0-6) [0.50]
SART*4210 Pai	nting IV W (0-6) [0.50]		stigates colour photography and continues investigation of the formal, coretical issues of contemporary photography.
Advanced invest critical issues of o or other.	igations into the role of observational study and strong emphasis on contemporary painting whether representational, abstract, mixed-media,		SART*3600 or SART*3750 Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average
Prerequisite(s): Restriction(s):	SART*4200 or SART*4230 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.		of 70% in all ARTH and SART course attempts.

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SART*4710 Ph	otography IV F,W (0-6) [0.50]	SART*4870 Spe	ecial Topics in Sculpture F,W (0-6) [0.50]
	nvestigation of colour photography and advance investigation into sues, with opportunities for interdisciplinary approaches to photographic SART*4700 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.	Subject matter v topics not otherw Media, Public An	rse which focuses on a specific theme, subject, or technique in sculptur vill vary according to the instructor or instructors and will consist ise available in the curriculum. Topics may include, for example, Kinet rt, Mold Making, or Figuration and Installation. Normally, two differe fered each year (see SART*4800). SART*3300 Registration is limited to students registered in the Art History or Stud
SART*4800 Sp	ecial Topics in Sculpture F,W (0-6) [0.50]		Art specializations of the Bachelor of Arts program with an average
An advanced con Subject matter topics not otherv Media, Public A	urse which focuses on a specific theme, subject, or technique in sculpture. will vary according to the instructor or instructors and will consist of vise available in the curriculum. Topics may include, for example, Kinetic rt, Mold Making, or Figuration and Installation. Normally, two different fered each year (see SART*4870).		of 70% in all ARTH and SART course attempts.
SART*4810 Ex	tended Practices III W (0-6) [0.50]		
two thematic pro close consultation medium, or take	ssues in interdisciplinary art production will be addressed through at least ojects and one self-directed work based on the students' own research in on with the instructor. Students may choose to pursue and perfect one a more interdisciplinary approach to art production. 1 of SART*3770, SART*4660, SART*4670 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*4820 Ex	tended Practices IV W (0-6) [0.50]		
on their own res provide student approach in prep	tion with the instructor, students produce two self-directed projects based earch. Presentations, grant writing and composing artist statements will s the opportunity to develop personal conviction and a professional paration to graduate. 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*4830 Int	teractive Multimedia W (0-6) [0.50]		
software. Stude	y of two-dimensional interactive multimedia using professional authoring nts will design and create multimedia presentations which explore a sue in their art practice.		
Prerequisite(s): Restriction(s):	SART*3480 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*4850 Sp	ecialized Studio Practice I F (0-6) [0.50]		
affords opportun independent stue project. Not inte	d specialized workshop in individually selected studio practices which nities for interdisciplinary approaches and oversees the development of dy strategies. Students will research and complete a major self-directed nded for all Honours students. Recommended to assist in the preparation o graduate school.		
Prerequisite(s):	A minimum of 2 courses at the 4000-level in Studio Arts, a minimum cumulative average of at least 80% in Studio Arts (SART) courses and Art History (ARTH) courses.		
Restriction(s):	Permission of the Instructor or Director of the School.		
SART*4860 Sp	ecialized Studio Practice II W (0-6) [0.50]		
Continuation of			
Prerequisite(s):	A minimum of 2 courses at the 4000-level in Studio Arts, a minimum cumulative average of at least 80% in Studio Arts (SART) courses and		
	Art History (ARTH) courses.		

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# 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:

	J	
THST*3110	[0.50]	Acting II
THST*3120	[0.50]	Acting III
THST*3410	[0.50]	Special Studies in Production I
THST*3420	[0.50]	Special Studies in Production II
THST*3600	[0.50]	Directed Readings and Special Independent Studies
THST*3620	[0.50]	Special Studies Seminar
THST*3630	[0.50]	Special Studies in Studio Practice
THST*4090	[0.50]	Directing
THST*4250	[0.50]	Honours Project in Theatrical Production
THST*4280	[1.50]	Ensemble Project
THST*4340	[0.50]	Playwriting
THST*4650	[0.50]	Honours Essay
For times and do	tes of audit	ions and interviews, students should consult the School

For times and dates of auditions and interviews, students should consult the School. <u>All</u> 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.

The Theatre Studies program has a particular interest in the drama and theatre of Canada. Course offerings will reflect this concentration where appropriate.

# THST\*1040 Introduction to Theatre Studies F,W (3-0) [0.50]

This course introduces students to the disciplines and subject areas that constitute Theatre Studies at the university level, including the work of playwrights, directors, designers, actors and technicians in creating productions, and the scholarly study of theatrical history, theory and dramatic literature. Attendance at a number of performances is required, since these performances are among the "texts" for the course.

# Equate(s): DRMA\*1000

# THST\*1150 Seminar in Theatre Studies W (3-0) [0.50]

A focused study of a selected topic in a small-group learning experience. Students will be introduced to research methodologies and offered opportunities to strengthen their writing and speaking skills. Variable course content. Consult the School's website for current topics.

Restriction(s): Restricted to students who are declared majors in Theatre Studies.

### THST\*1200 The Languages of Media F (3-2) [0.50]

This introductory course examines film, radio, television, and digital media, focusing on the codes and conventions used by different media to create relationships between structure and content, to make meaning.

### THST\*2010 Theatre Historical Studies F (3-0) [0.50]

This course will introduce students to the historical study of theatre by surveying developments in Western theatre from the classical period to twentieth-century modernism. Building on the historicity of Western theatre, the course also considers the historical conditions that have produced contemporary theatre practice in Canada.

Prerequisite(s):	THST*1040
Equate(s):	DRMA*3180
Restriction(s):	DRMA*2300
THST*2080 Act	ting I F,W (2-3) [0.50]
	for drama students applying classroom theory to acting problems. The d of, but not restricted to, students in a drama specialization.
Prerequisite(s):	THST*1040
Equate(s):	DRMA*2080
THST*2120 Dra	amaturgy and Playwriting W (3-0) [0.50]
Students will stu	dy how plays are made. The course includes analysis of theatrical texts
and exercises in	scripting.
Prerequisite(s):	THST*1040
Equate(s):	DRMA*1050
THST*2230 Int	ro to Technical Theatre F,W (2-3) [0.50]
costumes, lightir	to the theory and practice of theatrical production, including sets, ag, sound, props and technical drawing. Students are expected to serve vs on some evenings and weekends during School productions.
Prerequisite(s):	DRMA*1000 or THST*1040
Equate(s):	DRMA*2220
Equale(s):	DKMA*2220

# THST\*2240 Introduction to Theatre Design W (2-3) [0.50]

Students will be introduced to theories, techniques and materials in five areas of theatrical design: sets, props, lighting, sound, and costume. The course also considers the history of design for the theatre, attending to the relationship between design and other forms of cultural expression.

#### *Prerequisite(s):* DRMA\*1000 or THST\*1040

### THST\*2450 Approaches to Media Studies W (3-0) [0.50]

This course examines major approaches to the study of communication, including cybernetic, anthropological, semiotic and other perspectives, focusing on how people transmit information and construct meaning.

Prerequisite(s): THST\*1200

THST\*2500 Contemporary Cinema W (2-3) [0.50]

The course is designed to give the student knowledge and understanding of contemporary cinematic expression.

Equate(s): DRMA\*2500

### THST\*2650 History of Communication F (3-0) [0.50]

This course is organized around several revolutions in communication and technology: the evolution of human language; the development of writing systems and literacy; the invention and spread of printing and typography; and the beginnings of electronic communication and the digital revolution.

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\*2400Restriction(s):Students must be enrolled as a Major or Minor or area of concentration<br/>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\*3080

#### THST\*3110 Acting II F,W (2-3) [0.50]

A continuation of THST\*2080. Students will perform in a public production. Admission is by audition only.

Prerequisite(s): THST\*2080 Equate(s): DRMA\*3110 Restriction(s): Instructor consent required.

#### THST\*3120 Acting III F,W (2-3) [0.50]

A continuation of THST\*3110. Students will perform in a public production. Admission is by audition only.

 Prerequisite(s):
 THST\*3110

 Equate(s):
 DRMA\*3120

 Restriction(s):
 Instructor consent required.

# THST\*3220 Technical Production I F,W (2-3) [0.50]

This course offers students advanced engagement with the theory and application of theatrical crafts, and includes work in a technical capacity on a School production.

Prerequisite(s):DRMA\*2220 or THST\*2230Equate(s):DRMA\*3220

#### THST\*3230 Technical Production II F,W (2-3) [0.50]

A continuation of THST\*3220, focusing on the theory and application of theatrical crafts, and including work in a technical capacity on a School production. Students will normally work in different capacities in THST\*3220 and THST\*3230.

Prerequisite(s): THST\*3220

*Equate(s):* DRMA\*3230

Equate(s):

#### THST\*3240 Theatrical Organization F (3-0) [0.50]

DRMA\*3240

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. *Prerequisite(s):* THST\*2010, THST\*2080, THST\*2120

THST*3280 Theatrical Space W (3-0) [0.50]	THST*3530 Canadian Film W (2-3) [0.50]
This course is a study of theatrical space as it shapes performance, reception, social value	This course is designed to give the student knowledge and understanding of Canadian
and cultural meanings. It explores the nature of performance spaces and the relationship between performer and audience, and considers theoretical approaches to the problem	film and film makers.
of theatrical space, including analyses of cultural location, aesthetic spatiality, public	Prerequisite(s): THST*1200 or DRMA*1500 Equate(s): DRMA*3530
space and kinaesthetic space. The course offers an historical overview of various theatre	THST*3540 World Theatre Cultures U (3-0) [0.50]
and non-theatre venues for performance from the perspectives of actors, directors,	
designers, technicians and audiences. (Offered in even-numbered years.)	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
Prerequisite(s): THST*2240	current topics.
THST*3300 Sexuality and The Stage F (3-0) [0.50]	<i>Prerequisite(s):</i> (THST*2010, THST*2120) or 1.50 credits in English
This course focuses on issues relating to the staging of sexuality. The course will theorize	THST*3550 Theories of Drama and Theatre W (3-0) [0.50]
and historicize the representation of sexual diversity. Variable content course. Topics may include, for example, the theatrical staging of gays, lesbians, bisexuals, and	A study of selected theoretical approaches to the study of drama and theatre.
transgendered people; queer theatre; and the privileging of heterosexuality on the stage.	Prerequisite(s): (THST*2010 or DRMA*2300), THST*2120
(Offered in even-numbered years.)	<i>Equate(s):</i> DRMA*3550
Prerequisite(s): (THST*2010 or THST*2120) or 1.50 credits in English	THST*3600 Directed Readings and Special Independent Studies U (3-0) [0.50]
Equate(s): DRMA*3300	Independent study based upon bibliographies established in consultation with the
THST*3320 Applied Criticism of Drama and Theatre F (3-0) [0.50]	instructor. An essay will normally constitute the written requirement for the course
This course is designed to engage students in critical practice as applied to theatrical	Tutoring and/or consultation will be arranged, depending on the topic or materials for
production.	study. Special studies may also be arranged in the practical aspects of the theatre, with
<i>Prerequisite(s):</i> (DRMA*1050 or THST*2120), (1 of THST*2080, THST*2010,	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
THST*2300) Equate(s): DRMA*3320	by the School, no later than the last day of classes in the semester prior to enrolment in
	the course.
THST*3360 Political Intervention Theatre W (3-0) [0.50]	Prerequisite(s): 3.00 credits in Theatre Studies including (DRMA*1050 or
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	THST*2120), (DRMA*2300 or THST*2010)
development and genealogies of interventionist processes, with particular attention to	<i>Equate(s):</i> DRMA*3600 <i>Restriction(s):</i> Instructor consent required.
the transnational circulation of practices and methods. (Offered in even-numbered years.)	
(First offering is Winter 2008.)	THST*3620 Special Studies Seminar F (3-0) [0.50]
Prerequisite(s): (THST*2010, THST*2120) or 1.50 credits in English	A seminar course that provides for intensive study of a specific aspect of drama and/or theatre.
THST*3410 Special Studies in Production I F,W (2-3) [0.50]	Prerequisite(s): 3.00 credits in Theatre Studies.
Students will serve in such capacities as stage managers, assistant stage managers, assistant	Equate(s): DRMA*3620
directors, assistant designers, dramaturges, producers, or publicists on School productions,	Restriction(s): Instructor consent required.
and will study the functions of these roles in theatrical production. Admission is by application to the School.	THST*3630 Special Studies in Studio Practice U (3-0) [0.50]
<i>Prerequisite(s):</i> THST*3220, (1 of THST*2120, THST*3240, THST*3430,	The course provides an intensive exploration of one aspect of studio practice: playwriting
THST*3460, THST*3480, THST*3700)	acting, design or technical theatre.
<i>Equate(s):</i> DRMA*3410	Prerequisite(s): 3.00 credits in Theatre Studies including one of the following, as
Restriction(s): Instructor consent required.	appropriate to the topic of the course: THST*2080, THST*2120,
THST*3420 Special Studies in Production II F,W (2-3) [0.50]	THST*2230, THST*2240. <i>Equate(s):</i> DRMA*3630
A continuation of THST*3410. Students will normally work in different capacities in	Restriction(s): Instructor consent required.
THST*3410 and THST*3420. Admission is by application to the School.	THST*3650 Theatre Historical Studies Seminar F (3-0) [0.50]
Prerequisite(s): THST*3410 Equate(s): DRMA*3420	This seminar course investigates a topic in theatre history. The course will further develop
Restriction(s): Instructor consent required.	students' research skills and expertise in writing and speaking about scholarly materials
THST*3430 Theatrical Design: Sets and Props F (2-3) [0.50]	in the discipline. Variable content course. Consult the School's website for current topics
A study of the history, theory, and practice of theatrical design, with focus on the principles	Prerequisite(s): (THST*2010, THST*2120) or DRMA*2300
of set and prop design.	Equate(s): DRMA*4300
<i>Prerequisite(s):</i> DRMA*2220 or (THST*2230, THST*2240)	THST*3660 Dramatic Literature and Theory Seminar W (3-0) [0.50]
Equate(s): DRMA*3430	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
THST*3460 Costume W (2-3) [0.50]	discipline. Variable course content. Consult the School's website for current topics.
This course studies the art of costume design for the theatre, placing the discipline in	Prerequisite(s): (THST*2010, THST*2120) or DRMA*2300
historical and theoretical contexts while exploring the practice and art of costume design.	THST*3700 Fundamentals of Directing W (2-3) [0.50]
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	A study of the basic theories of directing, complemented by practical in-class directing
discretion, the course may include the design of mask, makeup, wigs and accessories.	exercises.
(Offered in odd-numbered years.)	Prerequisite(s): (DRMA*1050 or THST*2120), THST*2080, THST*2240
Prerequisite(s): THST*2230, THST*2240	<i>Equate(s):</i> DRMA*3700
Restriction(s): DRMA*3440	THST*3850 Canadian Drama and Theatre F (3-0) [0.50]
THST*3480 Lighting, Sound, Theatre Media F (2-3) [0.50]	A study of Canadian plays in their historical, cultural, and theatrical contexts.
The course studies theatrical lighting, sound, and media from the perspective of the	<i>Prerequisite(s):</i> DRMA*2300 or any 2000 level literature course
designer. Through a combination of class instruction, demonstration and practical lab	Equate(s): DRMA*3850
projects, the student will follow the process for the design of light, sound and media (theory and practice) from the first reading of a carint through all of the stores that lead	Restriction(s): DRMA*3331/2
(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 even-numbered years.)	

 Prerequisite(s):
 THST\*2230, THST\*2240

 Restriction(s):
 DRMA\*3440

 2007-2008 University of Guelph Undergraduate Calendar

All: Course Descriptions, Theatre Studies		
THST*3950 Dra	ama in London U (2-4) [0.50]	
A course design	ed for students taking the London Semester consisting of a study of	
	London, through attending performances, reading texts and meeting for	
weekly seminars		
Equate(s):	DRMA*3950	
Restriction(s):	Permission of the Co-ordinator of the London Semester.	
THST*4050 Voi	ice and Movement F (2-3) [0.50]	
	se engages students in an integrated approach to the art of vocal and	
	e, with a particular focus on voice and whole body gesture as means of	
1 / 1	n performance. (Offered in even-numbered years.)	
Prerequisite(s):	-	
Equate(s):	DRMA*4050	
	recting F (3-2) [0.50]	
	f the fundamentals of directing through a specific directorial assignment.	
	application to the School.	
Prerequisite(s):	THST*3700	
Equate(s):	DRMA*4090	
Restriction(s):	Instructor consent required.	
THST*4250 Ho	nours Project in Theatrical Production F,W (0-6) [0.50]	
	under direction, of a project in acting, directing, dramaturgy, design or	
technical theatre		
Prerequisite(s):	THST*2010, THST*2120, (1 of THST*3110, THST*3220,	
Frerequisite(s).	THST*2010, THST*2120, (10) THST*3110, THST*3220, THST*3430, DRMA*3440, THST*3480, THST*3700). Admission	
	is by application to the School; see the Policy on the course posted on	
	the School's website.	
Equate(s):	DRMA*4250	
Restriction(s):	Consent of both the instructor and the School are required.	
THST*4280 En:	semble Project W (6-9) [1.50]	
Students will en	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being	
Students will en company, theor	gage throughout the semester with the processes of forming a theatre	
Students will en company, theori undertaken, exp dramaturging, di	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing,	
Students will en company, theori undertaken, exp dramaturging, di	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sses the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed.	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sses the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. <i>Prerequisite(s):</i>	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sees the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650 or THST*3660)	
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Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. <i>Prerequisite(s):</i> <i>Equate(s):</i>	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sees the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650 or THST*3660) DRMA*4280 Restricted to majors in the Theatre Studies Program who have	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. <i>Prerequisite(s):</i> <i>Equate(s):</i> <i>Restriction(s):</i>	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sees the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650 or THST*3660) DRMA*4280 Restricted to majors in the Theatre Studies Program who have completed a minimum of 14.00 credits.	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. <i>Prerequisite(s):</i> <i>Equate(s):</i> <i>Restriction(s):</i> <b>THST*4320 Ser</b>	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sses the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650) or THST*3660) DRMA*4280 Restricted to majors in the Theatre Studies Program who have completed a minimum of 14.00 credits.	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. <i>Prerequisite(s):</i> <i>Equate(s):</i> <i>Restriction(s):</i> <b>THST*4320 Ser</b> An in depth stud	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sses the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*1040), THST*3080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650) or THST*3660) DRMA*4280 Restricted to majors in the Theatre Studies Program who have completed a minimum of 14.00 credits. <b>ninar in Dramatic Literature and Theory F (3-0) [0.50]</b> y of one aspect of dramatic literature before 1900.	
Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. <i>Prerequisite(s):</i> <i>Equate(s):</i> <i>Restriction(s):</i> <b>THST*4320 Ser</b> An in depth stud <i>Prerequisite(s):</i>	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sses the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650) or THST*3660) DRMA*4280 Restricted to majors in the Theatre Studies Program who have completed a minimum of 14.00 credits. <b>ninar in Dramatic Literature and Theory F (3-0) [0.50]</b> y of one aspect of dramatic literature before 1900. (THST*3650 or THST*3660), THST*3850	
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Students will en company, theori undertaken, exp dramaturging, di analysis that asse employed. Prerequisite(s): Equate(s): Restriction(s): THST*4320 Ser An in depth stud Prerequisite(s): Equate(s): THST*4330 Ser An in depth stud Prerequisite(s): Equate(s): Equate(s): THST*4340 Pla	gage throughout the semester with the processes of forming a theatre izing its organizational structure, and the particular project being ploring fundraising and publicity exercises, casting, designing, recting, and mounting a production, and engaging in post-production sses the social and theatrical impact of the decisions taken and procedures (DRMA*1000 or THST*1040), THST*2080, [DRMA*2220 or (THST*2230, THST*2240)], THST*3550, THST*3850, (THST*3650) or THST*3660) DRMA*4280 Restricted to majors in the Theatre Studies Program who have completed a minimum of 14.00 credits. <b>ninar in Dramatic Literature and Theory F (3-0) [0.50]</b> y of one aspect of dramatic literature before 1900. (THST*3650 or THST*3660), THST*3850 DRMA*4320 <b>ninar in Canadian Drama and Theatre W (3-0) [0.50]</b> y of one aspect of Canadian drama and theatre. (THST*3650 or THST*3660), THST*3550, THST*3850 DRMA*4330	
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# Toxicology

Department of Biomedical Sciences

Department of Chemistry Department of Environmental Biology

Department of Mathematics and Statistics

Department of Molecular and Cellular Biology

Department of Pathobiology

# 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),
_	(BIOL*1040 or equivalent) (CHEM*2300 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]

The chemistry of the natural environment; the influence of pollutants upon the environment, including methods of introduction of pollutants to, and removal of pollutants from, the environment. Department of Chemistry and Biochemistry. (Also listed as CHEM\*3360.)

Prerequisite(s):CHEM\*1050Equate(s):CHEM\*3360Restriction(s):CHEM\*1310

# TOX\*4000 Medical Toxicology F (3-3) [0.50]

The toxicology of mammalian body systems: dose-response, mechanisms and systemic sites of action of major groups of chemical toxicants. The course is designed for students majoring in biomedical toxicology. Department of Biomedical Sciences.

*Prerequisite(s):* BIOM\*3090, TOX\*3300

# 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 Environmental Biology.

# TOX\*4550 Ecotoxicological Risk Characterization W (3-0) [0.50]

A biologically based, advanced course that will give students working knowledge of current processes and techniques for ecotoxicological risk characterization. The course material will cover the topics of problem definition, dose response characterization, exposure characterization, risk assessment, and risk management decision making. (Also listed as ENVB\*4550.)

Prerequisite(s):TOX\*2000, ENVB\*3030Equate(s):ENVB\*4550

# TOX\*4590 Biochemical Toxicology F (3-0) [0.50]

The biotransformation of drugs, carcinogens, and other toxicants, including consideration of human health implications of these metabolic processes. The enzymes catalyzing these reactions will be discussed in detail. Designed for students specializing in Toxicology or Biochemistry. Department of Chemistry.

Prerequisite(s): (1 of CHEM\*3430, CHEM\*3450, TOX\*3300), BIOC\*3560, MBG\*2020

# Veterinary Medicine

Department of Biomedical Sciences

Department of Clinical Studies Department of Pathobiology

Department of Population Medicine

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.

The hours in courses below indicate the approximate equivalent number of semester course hours.

These courses will be available only to students registered in the D.V.M. program.

#### VETM\*3000 Veterinary Biochemistry P1 (2-1) [0.50]

This course integrates the biochemistry of the healthy animal with a study of some abnormalities in metabolic pathways. The emphasis is on understanding the physiological and biochemical mechanisms and regulatory processes within cells, tissues and organs, as a basis for later courses on diseases. Department of Biomedical Sciences.

#### *Co-requisite(s):* All Phase 1 courses.

VETM\*3070 Veterinary Anatomy P1 (2-6) [2.00]

An introduction to comparative, topographical anatomy, primarily of 4 domestic mammals: cat, dog, horse and cow. Full dissections of these species are related to the living animal and to imaging, to form the basis for future studies in clinical morphology. Students are first introduced to the major anatomical systems and then to the regions in detail: thorax, abdomen, pelvis and perineum, limbs, and head and neck. Active learning, problem solving, communication skills and the integration of material across concurrent courses are fostered. Department of Biomedical Sciences.

*Co-requisite(s):* All Phase 1 courses.

#### VETM\*3080 Veterinary Physiology P1 (3-3) [1.50]

The course describes the physiological processes carried out by the major tissues and organ systems, and the regulatory mechanisms that affect tissue and organ function. Topics dealt with in the course include the following: the cellular and chemical constituents of blood, blood coagulation and haemostasis, the function of the immune system, resistance to infectious agents and the principles of immunoprophylaxis, cardiac funtion, 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 homestatic 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 I 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.

514	XII. Course Descriptions, Veterinary Medicine	
VETM*3460 Theriogenology P2 (V-V) [0.75]	VETM*4460 Food Animal Medicine and Surgery P3 (V-V) [1.00]	
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.	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.	
Co-requisite(s): All Phase 2 courses. VETM*3470 Anaesthesiology and Pharmacology P2 (V-V) [0.75]	Prerequisite(s):       All Phase 2 courses.         Co-requisite(s):       All Phase 3 courses.	
This course provides the general principles, pharmacologic basis, and practical applications	VETM*4470 Medicine and Surgery of Dog and Cat P3 (V-V) [1.00]	
of general and local anaesthesia in small and large animals. Other topics covered include fluid and acid-base imbalance and the prevention and treatment of surgical shock. Departments of Biomedical Sciences and Clinical Studies. <i>Prerequisite(s):</i> All Phase 1 courses. <i>Co-requisite(s):</i> All Phase 2 courses. <b>VETM*3480 Phase 2: Special Topics P2 (V-V) [0.50]</b>	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 toward developing the skills, knowledge and attitudes that will permit the entry-level veterinaria to develop strategies to deal with common and uncommon diagnoses. The graduatin c om petencies c an be found on the OVC websit (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Clinical Studies.	
This course provides opportunities for students to enrich their educational experience,	Prerequisite(s): All Phase 2 courses.	
in depth and/or in breadth, beyond the core competency requirements of DVM 2000.	Co-requisite(s): All Phase 3 courses.	
This course is constructed of a series of topic-based modules related to the core teaching in Phase 2. Students will be required to take at least two of these modules. Departments	VETM*4480 Comparative Medicine P3 (V-V) [0.75] The course will contribute to students' achievement of selected elements of graduating	
of Biomedical Sciences, Clinical Studies, Pathobiology and Population Medicine. <i>Prerequisite(s):</i> All Phase 1 courses. <i>Co-requisite(s):</i> All Phase 2 courses.	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	
VETM*3510 Principles of Surgery P2 (2-0) [0.25]	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.	
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.	VETM*4490 Systems Pathology P3 (V-V) [1.00]	
Co-requisite(s):       All Phase 2 courses.         VETM*4220 Art of Veterinary Medicine III P3 (2-0) [0.50]         This modular course will require students to apply the knowledge and skills acquired in Phases 1 and 2 to problems that incorporate aspects of one or more of the following areas: communications and conflict resolution, ethics, professional behaviour, human- animal interactions, analysis and planning, and business issues. This course will focus on methods to resolve difficulties in the above areas that are interfering with intrapersonal and interpersonal relationships and with how to return abnormal situations to normal ones. Problem-solving, conflict resolution and stress management through application of innate and acquired knowledge and skills will be expected. The course will be taught primarily	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. <i>Prerequisite(s):</i> All Phase 2 courses. <i>Co-requisite(s):</i> All Phase 3 courses.	
through case analysis. OVC Dean's Office, Department of Population Medicine, Veterinary Teaching Hospital.	VETM*4530 Health Management III P3 (V-V) [0.50]	
Prerequisite(s): All Phase 2 courses. Co-requisite(s): All Phase 3 courses.	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.	
VETM*4420 Clinical Pharmacology P3 (V-V) [0.25]	The primary emphasis is directed towards developing species-specific skills, knowledg and attitudes that will permit the entry-level veterinarian to assess and advise on anima production and performance and evaluate the necessity for, and implementation of, healt management programs. The course is constructed of a series of species-based module Students will be required to take two of the modules. The graduating competencies ca be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html Department of Population Medicine.	
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. <i>Prerequisite(s):</i> All Phase 2 courses.		
Co-requisite(s): All Phase 3 courses. Restriction(s): Registration in the D.V.M. Program	Prerequisite(s):       All Phase 2 courses.         Co-requisite(s):       All Phase 3 courses.	
VETM*4450 Equine Medicine and Surgery P3 (3-0) [0.50]	VETM*4540 Surgical Exercises P3 (V-V) [1.75]	
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. <i>Prerequisite(s):</i> All Phase 2 courses. <i>Co-requisite(s):</i> All Phase 3 courses.	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.Restriction(s):Registration in the D.V.M. Program	

XII. Course Descriptions, Veterinary Medicine

XII. Course Descriptions, Veterinary Medicine	515
VETM*4610 Small Animal Clinics - Small Animal Stream P4 (V-V) [3.25]	VETM*4720 Health Management - Food 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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4620, VETM*4880, VETM*4900	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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4710, VETM*4880, VETM*4900 <i>Restriction(s):</i> Registration in the DVM program.
<i>Restriction(s):</i> Registration in the DVM program.	VETM*4870 Clinical Medicine III P3 (0-2) [0.25]
VETM*4620 Health Management - Small Animal Stream P4 (V-V) [1.00]	、 / <b>:</b>
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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4610, VETM*4880, VETM*4900 <i>Restriction(s):</i> Registration in the DVM program.	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. <i>Prerequisite(s):</i> All Phase 2 courses. <i>Co-requisite(s):</i> All Phase 3 courses.
VETM*4660 Small Animal Clinics - Mixed Stream P4 (V-V) [2.00]	
This course is for students who have selected the Mixed Stream in Phase 4 or DVM Program. The goal of the small animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.	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*4670, VETM*4680, VETM*4890, VETM*4900Restriction(s):Registration in the DVM program.	Prerequisite(s): All Phase 3 courses. Co-requisite(s): (VETM*4610 or VETM*4710), (VETM*4620 or VETM*4720), VETM*4900
VETM*4670 Large Animal Clinics - Mixed Stream P4 (V-V) [1.50]	Restriction(s): Registration in the DVM program.
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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4660, VETM*4680, VETM*4890, VETM*4900 <i>Restriction(s):</i> 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
VETM*4680 Health Management - Mixed Stream P4 (V-V) [2.00]	<i>Restriction(s):</i> Registration in the DVM program.
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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4660, VETM*4670, VETM*4890, VETM*4900 <i>Restriction(s):</i> 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.
VETM*4710 Large Animal Clinics - Food Animal Stream P4 (V-V) [1.00]	<i>Prerequisite(s):</i> All Phase 1, Phase 2 and Phase 3 courses.
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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4720, VETM*4880, VETM*4900 <i>Restriction(s):</i> Registration in the DVM program.	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. <i>Prerequisite(s):</i> All Phase 3 courses. <i>Co-requisite(s):</i> VETM*4890, VETM*4900, VETM*4930, VETM*4940 <i>Restriction(s):</i> Registration in the DVM program.

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#### 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\*4940Restriction(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

College of Arts

#### 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 (1of 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\*3510 Directed Readings in Women's Studies S,F,W (3-0) [0.50]

An opportunity for advanced Women's Studies undergraduates to pursue an independent course of readings and assignments in Women's Studies. The student will design a course of readings and assignments with the instructor and submit the proposal to the Coordinator of Women's Studies for approval by the last day of the Add Period of that semester.

 Prerequisite(s):
 10.00 credits including (1 of ISS\*2200, WMST\*1000, WMST\*2200), 1.00 additional credits from Women's Studies List A

 Restriction(s):
 Instructor consent required.

#### WMST\*3520 Independent Workplace Learning in Women's Studies S,F,W (3-0) [0.50]

An opportunity for advanced Women's Studies undergraduates to combine workplace experience (in women-focused agencies or organizations) with Women's Studies research and assignments relevant to that work. The student will design a project with the instructor and submit a proposal to the Coordinator of Women's Studies for approval by the last day of the Add Period of that semester.

 Prerequisite(s):
 10.00 credits including (1 of ISS\*2200, WMST\*1000, WMST\*2200), 1.00 additional credits from Women's Studies List A

 Restriction(s):
 Instructor consent required.

#### 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.

### WMST\*4510 Advanced Topics in Women's Studies S,F,W (3-0) [0.50]

An opportunity for advanced Women's Studies undergraduates to pursue an advanced research project in Women's Studies. The student will design a project with the instructor and submit for approval to the Coordinator of Women's Studies by the last day of the Add Period in that semester.

Prerequisite(s):	15.00 credits including (1 of ISS*2200, WMST*1000, WMST*2200
	), 1.00 additional credits from Women's Studies List A
Restriction(s).	Instructor consent required

#### WMST\*4520 Advanced Topics in Women's Studies S,F,W (3-0) [0.50]

An opportunity for advanced Women's Studies undergraduates to pursue an advanced research project in Women's Studies. The student will design a project with the instructor and submit for approval to the Coordinator of Women's Studies by the last day of the Add Period in that semester.

Prerequisite(s):	15.00 credits including (1 of ISS*2200, WMST*1000, WMST*2200
	), 1.00 additional credits from Women's Studies List A
Restriction(s):	Instructor consent required.

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Zoology	ZOO*3210 Comparative Animal Physiology II W (3-3) [0.50]
Department of Integrative Biology         ZOO*1500 Humans in the Natural World - a Zoological Perspective S,F,W (3-0)         [0.50]         This course will examine past and present human interactions with Nature from an ecological perspective. It investigates current global issues that require multi-disciplinary environmental analysis. (Also offered through distance education format.)         Restriction(s):       This course is designed for non-science students. B.Sc. students cannot take this course for credit.         ZOO*2050 Natural History of Ontario S,F (0-0) [0.50]       This course provides an introduction to the natural history of Ontario. The course begins with a review of geological, ecological and evolutionary factors that have influenced species diversity in the province. Distributions and abundances of biota, primarily animals, are discussed within the context of the four major ecozones. Human impacts on the biotic	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 will include an examination of digestive physiology, excretion, endocrinology and osmoregulation. This course involves exercises that use animals. BIOM*3100, BIOM*3110 and HK*3940 are available to cover similar material without labs. <i>Prerequisite(s):</i> BIOC*2580 ZOO*3300 Evolution F,W (3-0) [0.50] 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 of Ontario are examined and the conservation of habitats and species is discussed. Students are required to do three reports, one of which involves field work. (Offered through distance education format only.) <i>Prerequisite(s):</i> BIOL*1040	<ul> <li>change. Examination of adaptation and spectation, and the origins and paterns of block diversity through evolutionary time. Designed to integrate evolutionary theory with other fields of biology such as development, ecology and systematics.</li> <li><i>Prerequisite(s):</i> MBG*2000, (BIOL*2060 or BIOL*3110, which may be taken concurrently)</li> </ul>
ZOO*2070 Invertebrate Zoology I F (2-3) [0.50]	ZOO*4020 Ichthyology F (2-3) [0.50]
To provide a general knowledge of the biology, functional morphology and ecology of the invertebrates from protists to molluscs. <i>Prerequisite(s):</i> BIOL*1040	An introduction to the interrelationship of fossil and living taxa, and the fishes of the world with a special emphasis on the main Canadian and commercial forms, including detailed phyletic classification and evolution of fish-like vertebrates, their anatomical, morphological and selected ecological features.
ZOO*2080 Invertebrate Zoology II W (2-3) [0.50]	Prerequisite(s): BIOL*3450, ZOO*2090
To provide a general knowledge of the biology, functional morphology and ecology of the invertebrates from annelids to the urochordates.	ZOO*4050 Natural Resources Policy W (3-0) [0.50]
Prerequisite(s): ZOO*2070	An analysis of how political, economic, social and scientific factors interact to determine the policy underlying management of renewable and non-renewable natural resources
ZOO*2090 Vertebrate Structure and Function F,W (2-3) [0.50]         A comparative survey of the structure and functioning of the chordates with emphasis on the vertebrates. Course includes laboratory study of the anatomy of selected vertebrates.         Prerequisite(s):       BIOL*1040	provincially, nationally and internationally. The course will analyze current policies pertaining to fisheries, wild life, forestry, energy, water, minerals, international treaties and accords. <i>Prerequisite(s):</i> 15.00 credits
ZOO*2100 Developmental Biology F,W (3-3) [0.50]	Restriction(s): Registration in semester 7 or 8.
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. <i>Prerequisite(s):</i> BIOL*1040	<b>ZOO*4070 Animal Behaviour F (3-0) [0.50]</b> An introduction to the theories and principles of the behaviour of animals. The course will be a comparative study of learning, socialization, social interaction, and other components of animal behaviour.
ZOO*3000 Comparative Histology F (3-3) [0.50]	Prerequisite(s): 1 of PSYC*2410, PSYC*3410, ZOO*3200
An introduction to the microscopic structure of the major organ systems of the vertebrate body. The study of epithelial, connective, muscular, and nervous tissues precedes examination of the comparative histology of the circulatory, nervous, digestive, integumentary, respiratory, excretory, reproductive, endocrine, and sensory systems of vertebrates. <i>Prerequisite(s):</i> 1 of BIOM*3010, BIOM*3100, HK*3940, HK*3401/2, ZOO*2090, ZOO*3200	ZOO*4090 Ornithology F (2-3) [0.50]         An introduction to the biology of birds. Structure and function will be discussed in relation to various aspects of avian biology including evolution, flight, migration, reproduction, behaviour, and distribution.         Prerequisite(s):       ZOO*2090         ZOO*4110 Principles of Fish and Wild Life Management F (3-0) [0.50]
ZOO*3010 Wild Life Parasitology F (2-3) [0.50]	Presents ecological aspects of managing populations of fish, birds and mammals, evaluates
To provide an introduction to parasitology citing examples from the protozoans, helminths, and arthropods with particular reference to those in wild life, including fishes. <i>Prerequisite(s):</i> ZOO*2070	techniques and rationale for current fisheries and wild life programs. The course is not available to students in the Wild Life or Marine and Freshwater Biology majors. <i>Restriction(s):</i> BIOL*4150, ZOO*4570
ZOO*3200 Comparative Animal Physiology I F (3-3) [0.50]	ZOO*4170 Experimental Comparative Animal Physiology W (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 will focus on the nervous, muscular, respiratory and circulatory systems. This course involves exercises that use animals. BIOM*3100, BIOM*3110 and HK*3940 are available to cover similar material without labs.	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, HK*3940, ZOO*3210           ZOO*4280 Mammalogy W (2-3) [0.50]           An introduction to the orders of mammals on a world-wide basis, with detailed examination of Canadian species.
Prerequisite(s): BIOC*2580	Prerequisite(s): ZOO*2090

### ZOO\*4300 Marine Biology and Oceanography F (3-3) [0.75]

An intensive two-week course 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, ZOO\*2080

#### ZOO\*4330 Environmental Biology of Fishes W (2-3) [0.50]

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 ecotope concepts in defining the role of fishes in representative types of aquatic ecosystems. It is recommended that students take ZOO\*4020 before taking ZOO\*4330, even though ZOO\*4020 is not required as a prerequisite.

# ZOO\*4350 Biology of Polluted Waters F (3-3) [0.50]

A practical course in biology of disturbed waters, and toxicity of pollutants to aquatic life. Designed to familiarize students with the characteristics of polluted ecosystems, best methods of field survey, and procedures for toxicity tests.

Prerequisite(s): BIOL\*3450

### ZOO\*4410 Field Ecology F (3-3) [0.75]

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.

*Prerequisite(s):* 0.50 credits in ecology

*Restriction(s):* Instructor consent required.

ZOO\*4430 Herpetology F (2-3) [0.50]

This course will serve as an introduction to the biology of amphibians and reptilians on a world-wide basis with emphasis on the evolutionary significance of these groups.

Prerequisite(s): ZOO\*2090

#### ZOO\*4470 Comparative Endocrinology F (3-0) [0.50]

A study of the structure, function and evolution of endocrine glands and hormones, and the role of endocrines in integrating physiological functions in animals. The course is designed to familiarize biology students with current endocrine investigational methodology. (Offered in odd-numbered years.)

# *Prerequisite(s):* 1 of BIOM\*3110, HK\*3940, ZOO\*3210

ZOO\*4540 Marine and Freshwater Research F,W (0-6) [0.50] In this course, students will design, execute and communicate the results of a research project involving aquatic organisms. This will involve an examination of the primary scientific literature, the formulation of hypotheses, the design of experiments, the development of analytical skills and familiarity with the operation of analytical equipment and data analysis. Faculty guidance will be provided.

 Prerequisite(s):
 BIOL\*3450, BIOC\*2580, PHYS\*1080, STAT\*2040

 Restriction(s):
 Registration in semester 7 or 8 of the Marine and Freshwater Biology

 Major of the B.Sc. Program.

# ZOO\*4570 Marine Ecological Processes F (3-1) [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, PHYS\*1080

ZOO\*4600 Tropical Ecology F (1-6) [0.75]

This three-week field course provides an opportunity to study the flora and fauna of marine, freshwater and terrestrial environments of the tropics. Based at field stations in Australia, the course includes lectures, field exercises and a student project. An information session is held in late November. Signature of course coordinator is required for course selection. Students are responsible for costs of food, lodging and transportation. Detailed information is available from the Department of Integrative Biology. 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. (Offered in odd-numbered years.)

*Prerequisite(s):* BIOL\*1040, (BIOL\*2060 or BIOL\*3110)

Restriction(s): Instructor consent required.

#### ZOO\*4610 Arctic Ecology F (1-6) [0.75]

This three-week field course provides an opportunity to study the flora and fauna of marine, freshwater and terrestrial environments of the high Arctic. Based in the high Arctic, the course includes lectures, field exercises and student projects. An information session is held in January; students are required to register before March. Signature of course coordinator is required for course selection. Students are responsible for cost of food and transportation. Detailed information is available from the Department of Integrative Biology. (Offered in even-numbered years.) 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\*1040, (BIOL\*2060 or BIOL\*3110) *Restriction(s):* Instructor consent required.

#### ZOO\*4700 Field Biology S,F,W (1-6) [0.50]

Students may apply for 2-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.

 Prerequisite(s):
 BIOL\*1040, (BIOL\*2060 or BIOL\*3110)

 Restriction(s):
 Permission of the course coordinator.

#### ZOO\*4710 Field Biology S,F,W (1-6) [0.25]

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.

Prerequisite(s):BIOL\*1040, (BIOL\*2060 or BIOL\*3110)Restriction(s):Permission of the course coordinator.

#### ZOO\*4800 Field Biology S,F,W (1-6) [0.50]

Students may apply for 2-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.

Prerequisite(s):BIOL\*1040, (BIOL\*2060 or BIOL\*3110)Restriction(s):Permission of the course coordinator.

#### ZOO\*4810 Field Biology S,F,W (1-6) [0.25]

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.

Prerequisite(s):BIOL\*1040, (BIOL\*2060 or BIOL\*3110)Restriction(s):Permission of the course coordinator.

# 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 promotes development cooperation partnerships with developing countries, provides information on international opportunities and resources to students and faculty, provides support for international students 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 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 assistance. For further information contact Shelly Croth, Director at 822-1280.

#### 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 up to 10 infants, 15 toddlers, 64 preschoolers and 22 kindergarteners. Care is available for children from three 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 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: Judy Callahan, Director, Child Care Services, University of Guelph, Guelph, Ontario, N1G 2W1, or call 519-824-4120 extension 52682.

# **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;
- 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-centred corporation. Getting more of your money is not our mandate. Saving you money is.

Annual memberships are available for \$10 and entitle you to a 5 per cent discount at the Bookstore, use of Co-op resources, the right to apply for Co-op housing, and the right to vote and run for the Board of Directors. For more information call 824-4950 or email info@guelphcampus.coop.

#### **Guelph Campus Co-op Housing**

Affordable and close to campus, the Co-op operates shared houses and apartments at below market rates. It's a better deal because our mandate is to serve students, not make big profits. Another reason it's affordable is that the deal includes your participation in the upkeep and running of your place. Sound reasonable? Apply early: only a limited number of units become available each term, and the waiting list can get pretty long. Application forms are available at the Co-op office at 17 College Avenue West (across from OVC) or our website at http://www.guelphcampus.coop/.

#### **Co-op Bookstore**

There are two bookstores on campus - only one of them is owned by students. You get the lowest possible prices, and we'll always substitute good used texts when they are in stock. We'll also buy back your texts for cash any time throughout the year. When ordering, all you have to do is give us your order - in person, over the phone, or by email - and we'll get everything ready for you. We know textbooks, and we know the courses you're taking. So if you need help reviewing your course list needs, talk to us. That's part of our service. To check your course lists online, visit our web site at http://www.guelphcampus.coop/. Where you spend your money counts.

# Health and Performance Centre

The Health and Performance Centre is located on the second floor of the John T. Powell Building. It is easily accessed off of East Ring Road and is located near the Twin Pad Arena, Athletics and Student Health Services. The Centre provides service to all students and their families, staff and the general community.

The Health and Performance Centre specializes in the diagnosis, treatment and rehabilitation of acute and chronic orthopedic, musculoskeletal, sport and activity related injuries. The Centre also provides a variety of health promotion services including fitness and nutrition expertise. The Centre's multi-disciplinary team includes: sports medicine physicians, physiotherapists, athletic therapists, massage therapists, dietitians, pedorthist, chiropractor, fitness consultant and professional bike fit technician.

Services are offered on a fee for service basis. Many of the services are eligible for coverage by provincial and international health plans, the University of Guelph student health plan and other extended health plans. Students are encouraged to investigate their health coverage.

The Health and Performance Centre is open from 8:00 a.m. to 8:00 p.m. Monday to Thursday and 8:00 a.m. to 6:00 p.m. Friday. For general enquiries and appointments, please visit the website at http://www.uoguelph.ca/hpc 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: 8:45a.m.-4:45p.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 contemplating a teaching career are advised to contact the appropriate Faculty of Education to determine the subjects, credits, and grades required for admission. Information on all Ontario Faculties, as well as those in other provinces and some international schools, is available in the Connection Centre, 3rd Floor of the University Centre. Applications for the Ontario Faculties of Education can be found at http://www.ouac.on.ca/teas, along with the web links to each Ontario Faculty of Education. For more information email Career Services at: careers@uoguelph.ca.

Brock University	University of Windsor	Queen's University
Faculty of Education	Faculty of Education	Faculty of Education
St. Catherines ON L2S 3A1	401 Sunset	Duncan McArthur Hall
(905)685-5550 ext.3591	Windsor ON N9B 3P4	Kingston ON K7L 3N6
<http: www.brocku.ca=""></http:>	(519)253-4232 ext.3800	(613)533-6210
_	<http: www.uwindsor.ca=""></http:>	Fax: (613)-533-6584
		<http: educ.queensu.ca=""></http:>
University of Ottawa	Lakehead University	Laurentian University
Faculty of Education	Thunder Bay ON P7B 5E1	School of Education
145 Jean-Jacques Lussie	(807)343-8520	Ramsey Lake Road
Ottawa ON K1N 6N5	<http: www.lakeheadu.ca=""></http:>	Sudbury ON P3E 2C6
(613)562-5804 ext.4057	Fax: (807)344-6807	(705)474-3450 ext. 5004
<http: www.uottawa.ca=""></http:>		<http: www.laurentian.ca=""></http:>

Nipissing University	York University	University of Western
Faculty of Education	Faculty of Education	Ontario
P.O. Box 5002	4700 Keele Street	Faculty of Education
North Bay ON P1B 8L7	Toronto ON M3J 1P3	1137 Western Road
(705)474-3450	(416)736-5002	London ON N6G 1G7
Fax: (705)474-1947	Fax: (416)736-5613	(519)661-2080
<http: www.nipissingu.ca=""></http:>	<http: www.edu.yorku.ca=""></http:>	Fax: (519)661-3833
		<http: www.edu.uwo.ca=""></http:>
The Ontario Institute for	Trent University	
Studies In	(Co-operative Concurrent	
Education/University of	Teacher	
Toronto	Education Program with	
252 Bloor Street West	Queen's University)	
Toronto, ON M5S 1V6	Otanabee College	
(416)923-6641	Peterborough, ON K9J 7B8	
Fax: (416)926-4725	(705) 748-1464	
<http: www.oise.utoronto.ca=""></http:>	Fax: (705)748-1625	
	<http: www.trentu.ca=""></http:>	

# **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

# 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. In addition, the library has over 12,000 audio-visual holdings (audio recordings, films and video tapes) and over 70,000 maps. Access to these materials and the collections at the University of Waterloo and Wilfrid Laurier University is available through the TRELLIS system.

# Services

The collection is housed in a modern building, considered among the best in Canada. In a pleasant air conditioned atmosphere all students and faculty have open access to the collection. 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 all other Ontario university libraries.

Each holder of a University of Guelph or special borrower card is fully responsible for all Library material borrowed using that card.

Library staff is available to offer help in the use of a wide range of paper and electronic information resources. Orientation tours and instructional classes in the use of the Library are available. Photocopying machines are located throughout the Library. Please refer to the Library's information sheet "Copyright Guidelines".

# **Regulations and Hours**

A series of leaflets detailing library privileges, services, regulations and hours may be obtained on the First Floor of the Library. For more information about the Library and its services visit http://www.lib.uoguelph.ca or http://www.tug-libraries.on.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 opirg@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 <a href="http://www.statcan.ca">http://www.statcan.ca</a> 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 for information and help.

# **Student Life**

#### 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 our Intercollegiate Office as soon as possible. Many teams require on- and off-season conditioning and training. For a full list of the intercollegiate sports offered, 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 "RecreAction" brochure, or the Department of Athletics website for detailed information.

Intramural sports involve more than 6,000 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 centre staff, camp staff as well as many other areas within athletics. Browse the "Facility" and "Fitness and Recreation" pages on our website to see a list of employment opportunities in Athletics.

#### Learning Commons

The Learning Commons, located on the first floor of the McLaughlin Library, brings together in one location services that enhance learning, writing, research, and technology at the University of Guelph

**IT Help Desk** provides assistance to students, faculty and staff with IT related questions or problems. Scanners are available and workshops on a variety of software applications are offered for students.

**Learning Services** provides support to undergraduate and graduate students concerned with improving their learning and enhancing their academic performance. Services include a range of programs, workshops, presentations, printed and on-line resources, and individual assistance.

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** assists 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 sessions to enrich the learning experience of students enrolled in historically challenging courses including first year Chemistry, Computer Science, Economics, Mathematics, and Psychology.

Writing and ESL Services provides 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 wide 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 <a href="http://www.learningcommons.uoguelph.ca">http://www.learningcommons.uoguelph.ca</a>.

#### Office of the Associate Vice-President, Student Affairs

The Associate Vice President, Student Affairs, is responsible for student life 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 and the Learning Commons.

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 csatalk@uoguelph.ca and the website is located at <http://www.csa.uoguelph.ca>. The day-to-day operations of the Central Student Association are coordinated by the 5 executive and 3 staff members. Executive members can be contacted at the following on-campus extensions and email addresses:

Academic Commissioner - csaacad@uoguelph.ca - x56742

External Commissioner - csaext@uoguelph.ca - x58328

Local Affairs Commissioner - csalocal@uoguelph.ca - x54407

Finance and Human Resources Commissioner - csaadmin@uoguelph.ca - x54408 Communications Commissioner - csatalk@uoguelph.ca - x56376

#### **Canadian Federation of Students**

The C.F.S. is the national voice of students, representing more than 400,000 students across the country. The C.F.S. lobbies the federal government for changes which are aimed at making post-secondary education more accessible to all students. They provide research documents, campaigns, and services for all members across the country.

#### **Canadian Federation of Students-Ontario**

The C.F.S.-O. is the provincial voice of students, representing more than 200,000 students across the province. The C.F.S.-O. lobbies the provincial government for changes which are aimed at making post-secondary education more accessible to all students. They provide research documents, campaigns, and services for all members across the province.

#### **Other Student Groups**

Other important groups on campus include College Student Governments, Interhall Council, the Guelph Campus Co-operative, and the Ontario Public Interest Research Group. All of the above organizations combine to make Guelph one of the most active campuses in the country. We hope that you continue in that tradition, and come on up to the C.S.A. office (University Centre 274) or give us a call at extension 56748. Remember that your education does not end when class is over. So make a difference in your university experience by getting involved with your student association.

#### **Student Health Services**

Student Health Services, located in the John T. Powell Building, provides comprehensive medical and healthcare services to all students and their immediate families.

Student Health Services provides acute care intervention and continuing care for any health related problems. Health Services has a multi-disciplinary team that includes family physicians, psychiatrist, nurses, dietitians, and health educators. In addition to appointment

clinics, specialty programs include the Wellness Centre, Walk-in Clinic, a dispensary and immunization clinics.

Students are required to bring their OHIP card, other provincial health plan information or UHIP card when attending Health Services for care.

To make an appointment, for general enquiries, hours of operations or for after-hour care information call extension 52131.

#### **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 and voicemail. 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 is available: study intensive 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 in small living units.

The University of Guelph has several unique residence learning communities including La Maison Francaise, Arts House, International House, Eco House and Academic clusters.

#### **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. 52551).

#### **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: resadmit@uoguelph.ca. Web site: http://www.housing.uoguelph.ca.

#### Student Life and Counselling Services

Student Life and Counselling 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:

**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 to 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.

The Information Desk, located at the South Entrance to the 1st floor of the University Centre.

**Contact Help and Safety Line** is an after-hours phone line available to all members of the University community. Trained volunteers offer support and referral services to callers. All calls are confidential and anonymous. The Contact Line is open from 6:00 p.m. to 12:00 midnight every day.

**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.

**Student Support Network** volunteers provide personal support, information, a listening ear and referrals on an informal drop-in basis. Any member of the university community is welcome to use the Drop-In when they wish to talk to someone or wish information. Raithby House Drop-In is staffed by trained student volunteers. The House Drop-In is open Monday to Friday from 4:00 p.m. to 12:00 midnight. You will see The House flag flying when we are open.

**Student Life** supports the mission and strategic directions of the University of Guelph by offering comprehensive programs and services that help students make successful transitions to, through and from university life and study. Curricular and co-curricular initiatives and advising and support activities serve as vehicles, through which students explore their leadership capacity, make lasting connections, optimize opportunities for

learning through experience, develop civic responsibility, and engage in campus and community life. Student Life includes the Office of Intercultural Affairs, Centre for New Students, Leadership and Community Engagement and Neighbourhood Relations and Off Campus Housing.

**Neighbourhood Relations and Off Campus Housing**, a functional area within Student Life, maintains listings of various types of accommodation in the Guelph area. The office can help you with where and when 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. Listings can be viewed at http://www.housing.uoguelph.ca/ocho.

#### **Co-operative Education & Career Services**

Co-operative Education and Career Services facilitates student learning and career development, helps produce skilled graduates, and meets employer and labour needs. With over 1,600 co-op students, U of G enjoys one of the highest student enrollment in co-operative education among Ontario universities. By working in partnership with industry, co-operative education aims to enable students to "learn by doing", and to allow employers to select and train the workforce of tomorrow. Career Services aims to help students, graduates and alumni succeed in their transition to the world of work or further education. Career Services provides a variety of comprehensive career development and job search planning programs and events to ensure access to a wide variety of employment possibilities and help our clients learn to self manage their careers.

# **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 education environment that promotes individual learning and development.

The University accepts that students are able to make responsible decisions regarding their behaviour. These regulations help to provide for an environment that supports personal and intellectual growth. They are intended to recognize a student's rights and the rights of others, while also identifying certain responsibilities of students that are a part of the exercise of these rights.

For 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.

Students 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 their ability to use and enjoy University facilities.

#### **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

<sup>1</sup> Refer to the Associate Diploma Calendar; Undergraduate and Graduates calendars, available electronically at http://www.uoguelph.ca/undergrad\_calendar/ or http://www.uoguelph.ca/GraduateStudies/calendar

#### 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 the University's own regulations, including, but not limited to the Acceptable Use Policy and Guidelines for the University of Guelph <sup>2</sup> Refer to the University's Acceptable Use Policy available on line at http://www.uoguelph.ca/AUPG.html.

<sup>3</sup> Refer to the University's In-Line Skates, Roller Blades and Skateboards Policy available at the Director's Office at each Regional College or electronically on the University's Financial Services website: http://www.fin.uoguelph.ca/uploadFiles/GE380.pdf.

#### 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. 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.

#### **III.** 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:

- 1. respect posted hours and limits on entry where such conditions exist;
- 2. confine smoking only to areas designed for that purpose;
- 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;
- 4. not discharge, tamper with or operate any fire prevention or detection equipment for any purpose other than the control of fire. (For students found guilty of offences under this section, mandatory <u>minimum</u> penalties apply.)

#### 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. Grounds

You have the RIGHT to use of the University grounds. You have the RESPONSIBILITY to observe the following specific limitations:

- 1. Authorized Entry posted hours and limits on entry must be observed and adhered to.
- 2. **Bicycles** Bicycles are subject to removal at the owner's expense if they are secured to trees or railings, secured to ramps for the disabled, left in fire routes or stairwells of any University building or otherwise found obstructing by being in any unauthorized area.
- 3. **Automobiles** Automobiles are subject to removal at the owner's expense if left in fire routes, area for disabled access, pedestrian walkways, driveways, or otherwise found obstructing by being in an unauthorized area.
- Temporary Accommodation Sleeping or maintaining residence in vehicles, trailers, tents or University facilities is prohibited, except where specifically authorized.
- 5. **Pets** Pets on campus must be under direct control at all times and must not be left unattended. Pets are not allowed in University buildings except as authorized.

#### **IV. 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 out their legitimate activities, including their ability to speak or associate with others.

#### V. Other.

1. Drugs and Alcohol. You have the RESPONSIBILITY to abide by the Provincial Liquor Licence Act and Provincial and Federal statutes pertaining to illegal drugs and alcohol. The possession, use or trafficking of illegal drugs is prohibited, and each activity may form the basis of a separate charge. For students found guilty of a drug offence within Student Housing, mandatory minimum penalties will apply. The possession of liquor by those under the age of 19, is prohibited. Consumption or open possession of liquor is prohibited, other than in those residence rooms where it has been specifically permitted or in licensed premises.

- 2. Visitors. You have the RIGHT, upon compliance with existing sign-in requirements (Student Housing Services and licensed establishments), to have visitors on campus. As their sponsor, you have the personal RESPONSIBILITY to ensure that your guests abide by these regulations.
- 3. Firearms and other Weapons. Firearms, any other weapons, firecrackers, gunpowder, or any other forms of unauthorized explosive or volatile 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 defense, 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 which provides for appropriate disciplinary penalties to be imposed. These penalties may include fines (up to \$1,000), non-academic probation 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 President or designate may implement an interim suspension if, in his/her opinion, a student's conduct raises a reasonable apprehension of harm to the student or to others in the University community, or the normal functioning of the University. A Judicial proceeding will be undertaken as soon as possible to allow for a hearing of the case and, in any event, no longer than fourteen (14) working days from the laying of the charge.

The Judicial Committee at the main campus and each Regional College has the authority to enforce these regulations if a breach of the regulations occurs off campus, which affects the rights of the members of the University community to use and enjoy University facilities.

Each Judicial Committee is an appointed tribunal of students, staff and faculty that hears reported incidents of student behaviour that represent alleged infractions of the student regulations and formal complaints against students under the policy *Human Rights at the University of Guelph*<sup>4</sup>. The Judicial Committee may also act as an appeal body to hear appeals regarding decisions of a non-academic nature imposed by a University of Guelph department or Regional College where there is no other existing appeal process.

Decisions of a Judicial Committee may be appealed to the Hearing Board or in the case of the Regional Colleges, the Appeal Board. The Hearing/Appeal Board is a student/faculty/staff tribunal. The Board hears appeals from decisions of the Judicial Committee when one or more of the grounds for appeal are satisfied.

Further information on the Judicial process may be obtained from the Judicial Officer, Senate Office, 4th floor, University Centre, ext. 53116 (or from the Director's Office at each Regional College). Terms of Reference and Rules of Procedure documents for the Judicial Committee a r e available on-line a t http://www2uoguelphca/studentaffairs/home/documents/judicial\_committee\_terms\_of\_ref\_approved\_june04\_000pdf. Frequently asked questions for charges under Students Rights and Responsibilities (SR&R) a v a i l a b l e a r e a t http://www2.uoguelph.ca/studentaffairs/home/documents/judicial\_committee\_student\_information\_000.pdf. Further information and copies of the Student Rights and Responsibilities document are available from the Office of Student Affairs, 4th floor, University Centre, at ext. 53868 for from the Director's Office at each Regional College. It can be viewed on-line at http://www2.uoguelph.ca/studentaffairs/home/documents/student\_rights\_responsibilities.pdf. Comments on the document and specific suggestions for amendments or additions to the student regulations are welcome at any time and should be referred to the Office of Student Affairs.

<sup>4</sup> Refer to the Human Rights at the University of Guelph document, available on-line at http://www.uoguelph.ca/hre/.

# 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 special needs advisors, strategists and 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, disability issues and educating students in the development of learning strategies.

#### **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, 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 taped 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 strategist is available to provide students with learning disabilities 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, the Bookstore carries every text book required for all of your courses. Students can find everything they need for school right on campus! This is your "one-stop shop" for text books, additional reading material and school supplies. The University Bookstore also carries an impressive selection of University clothing and giftware. For additional information, please visit the University Bookstore website at: http://bookstore.uoguelph.ca/home.htm

**Pages Coffeehouse** Pages, featuring a full service Tim Hortons, is located on the second floor of the University Bookstore. Students can relax and enjoy the comfortable surroundings and 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 Centre surrounding an open courtyard.

**Centre Six Food Court** opens early and closes late, offering a wide array of specialty shops including Nature's Best Vegetarian, Exhibition Cooking and the Wokathon. Enhancing the variety are several popular brands such as Subway, Tim Hortons, Williams Coffee Pub, Taco Bell, KFC and the Pita Pit.

The University Centre Variety and Gift Shop, located on the main floor, carries a wide selection of greeting cards, magazines, gift items and provides a full service Post Office.

**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 <u>Performance Season</u> 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 <u>Programming Office</u> 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 is located in this level as well.

Level 1 houses many businesses including a travel agency, a dentist, a chiropractor/massage therapist, a CD shop, a hair salon, a sign making shop, a photographer and bank machines. Also located on Level 1 is the Women's Resource Centre, 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 Ontarion (a weekly campus tabloid newspaper) and CFRU-FM or Radio Gryphon. The CUPE 3913 office is also located on this level.

Levels 3 holds many meeting rooms which can be booked through the University Centre Administration office. The CUPE 1334 office is also located on this level. Administrative offices are located on this level and include the Office of Registrarial Services, Co-operative Education & Career Services, Student Life and Counselling Services, Undergraduate Academic Information Centre, and The Centre for Student's with Disabilities.

Level 4 North houses meeting rooms and the Steelworkers Union Office and Catering and Conference Services for the University.

Level 4 South houses the University's Administrative Offices.

Level 5 North houses the University Club (formerly the Faculty Club), the Graduate Students' Association and the Older-Than-Average Students Lounges. Other facilities include the Graduate Students' Association Administrative Office, the Chapel and the Professional Staff Association.

Level 5 South houses the University's Financial Services, Purchasing and Human Resources Departments.

The University 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.

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. Other facilities include the Music Practice Room. 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 I.D. Cards**

A University I.D. 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 Undergraduate Program 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 Undergraduate Program Services, Office of Registrarial Services, Level 3, University Centre for assistance.
- 7. Loss or finding of the University Card should be reported to Undergraduate Program Services, Office of Registrarial Services, Level 3, University Centre, during regular University office hours. At other times, a preliminary notification may be made during Library hours at the Circulation Information Desk on the main floor of the Library.
- 8. Replacement charge is \$20.00.

# **XV. Summary of Attendance**

November 1, 2006 Enrolment Statistics and Systems, Office of Registrarial Services

# UNDERGRADUATE PROGRAMS (UG) - FULL-TIME

UNDERGRADUATE I ROORAMID (UU) - FUEL-TIME			,				,	,	
Program / Semester Level	1	2	3	4	5	6	7	8+	Total
Associate Diploma Programs	18	10	26	5	-	-	-	-	59
B.A.	1,615	108	1,044	260	970	309	822	233	5,361
B.A.Sc.	162	8	139	9	128	27	179	27	679
B.A.S.	110	4	81	12	51	17	52	27	354
B.B.R.M.	13	-	1	-	-	-	-	-	14
B.Comm.	628	36	430	99	408	170	562	108	2,441
B.Comp.	22	6	27	16	28	26	38	14	177
B.Eng.	112	7	81	28	82	106	121	46	583
B.L.A.	33	6	45	8	28	10	30	11	171
B.Sc.	1,275	122	862	220	765	253	879	311	4,687
B.Sc. (Agr.)	59	7	64	13	60	28	78	31	340
B.Sc. (Env.)	80	9	59	18	48	9	60	16	299
B.Sc. (Tech.)	30	-	7	1	-	2	3	10	53
D.V.M.	110	-	109	-	110	-	107	-	436
General Studies	2	2	1	-	-	-	-	-	5
Honours Equivalency	-	-	-	-	-	-	2	7	9
Non-Degree	17	-	1	1	1	1	-	10	31
Non-Diploma	-	-	-	-	-	-	-	-	0
UG Full-time Enrolment						I			15,699
UNDERGRADUATE PROGRAMS (UG) - PART-TIME									
Program / Semester Level	1	2	3	4	5	6	7	8+	Total
Associate Diploma Programs		-		3	-	-	-		3
B.A.	56	54	49	72	74	153	54	170	682
B.A.Sc.	5	8	3	2	7	3	12	11	51
B.A.S.	5	2	-	2	4	3	4	6	26
B.B.R.M.			-			-		-	0
B.Comm.	14	22	16	22	27	9	20	53	183
B.Comp.		6	5	5	4	15		2	37
B.Eng.	6	2	2	3	5	3	16	12	49
B.L.A.	1	-	- 1	-	-	-		2	4
B.Sc.	27	30	25	37	34	45	20	106	324
B.Sc. (Agr.)	1	2	23	4	-		5	100	26
B.Sc. (Env.)	2	2	2	3	2	- 1	3	9	20
B.Sc. (Tech.)			1	1	1	1	3	2	9
D.V.M.			1	1	1	1		2	0
General Studies	32	7		1	1				41
Honours Equivalency	52	/	-	1	1	2	- 4	- 17	23
Non-Degree	28	- 1	-		-	2	5	31	67
Non-Diploma	20	1	-	-	-	2	5	51	07
UG Part-time Enrolment	-	-	-	-	-	-	-	-	1,547
Total UG Enrolment	4 4(2	459	2 092	845	2.940	1 105	3,079	1 292	1,547
	4,463		3,083	845	2,840	1,195	3,079	1,282	17,240
GUELPH-HUMBER UNDERGRADUATE PROGRAMS			2	4	_	(	-	0.	
Program / Semester Level	1	2	3	4	5	6	7	8+	Total
BAC	14	2	22	4	-	-	-	25	67
BAMS	139	8	100	11	121	7	97	4	487
BASC	166	9	138	16	96	28	101	27	581
BBA	210	17	197	28	203	31	264	16	966
UGH Full-Time Enrolment 2,101									
	GUELPH-HUMBER UNDERGRADUATE PROGRAMS (UGH) - Part Time Enrolment								
Program / Semester Level	1	2	3	4	5	6	7	8+	Total

2007-2008 University of Guelph Undergraduate Calendar

#### XV. Summary of Attendance

XV. Summary of Attendance									529
BAC	5	1	1	14	2	-	-	-	23
BAMS	3	4	-	3	1	1	1	1	14
BASC	15	32	7	34	55	29	1	2	175
BBA	4	9	5	8	11	4	5	9	55
Non-Degree	15	-	1	1	-	-	-	-	17
UGH Part-Time Enrolment									284
Total UGH Enrolment								2,385	
Total UNDERGRADUATE Enrolment (UG and UGH)								19,631	
GRADUATE PROGRAMS (GR)									
Program		Full-time Part-time						Part-time	Total
D.V.Sc.		41 -						41	
Graduate Diploma in Veterinary Medicine		5 -							5
M.A.		275 10						285	
M.B.A.		86 1							87
M.ENG.		11 6							17
M.F.A.		29 -							29
M.L.A.		46 6							52
M.SC.		724 96							820
M.SC. (AQUA.)		2 -							2
M.S.P.L.		45 7							52
PH.D.		620 59							679
Non-Degree		6 -							6
Total GR Enrolment		1,890 185						2,075	
TOTAL UNIVERSITY ENROLMENT							21,706		

XVI. Administration and Faculty	T.J. Gillespie, Guelph					
	G.L. Lange, Guelph					
Administration and Faculty	T.E. Michaels, Guelph A.L. Middleton, Guelph					
The Board of Governors	D.M. Prescott, Guelph					
Hon. L.M. Alexander, Chancellor	G.A. Stelter, Guelph					
D.L. Derry, Chair	<b>R.R. Stoltz</b> , Guelph					
R. Burak, Vice-Chair	H.J. Swatland, Guelph					
V. Hodgkinson, Secretary	The Lincoln Alexander Medal of Distinguished Service					
B.W. Barrington	W. Brock, Toronto					
T. Burt	G.L.E. Nixon, St. Catharines					
B. Caswell	H. Vander Pol, Blenheim					
J. Coombs	S. Surgeoner, Fergus					
P.J. Devine	W. Winegard, Guelph					
D. Freeborough	Administrative Officers					
J. Guss G.S. Kilgour						
K. Kuwahara	Office of the President					
J. Lozon	A.J.S. Summerlee, President and Vice-Chancellor, B.SC., B.V.SC., PH.D. (BRISTOL), MRCVS					
L. Mahood	<b>S. Bennett</b> , Director University and Community Relations, B.A. (QU.)					
B. Miller	M.M. Childs, Legal Counsel, B.SC. (ST. F.X. ANTIGONISH, N.S.), LLB (WESTERN)					
R.A. Norris	University Secretariat					
N. Schmidt	V. Hodgkinson, University Secretary, B.A. (YORK, CAN.), M.A. (GUELPH)					
P. Shewen	<b>K. Revington</b> , Associate University Secretary, B.A. (QU.), M.ED. (BOSTON)					
E.W. Siddall	Office of the Provost and Vice-President (Academic)					
A. Sullivan	M. Mancuso, Provost and Vice President (Academic), B.A. (MCM.), M.A. (CAR.),					
A.J.S. Summerlee, President	D.PHIL. (OXF.)					
B. Teesdale	A. Shepard, Associate Vice-President (Academic), B.A. (ST. OLAF), PH.D. (VIRGINIA)					
Hon. L. Vanclief	B. Whiteside, Associate Vice-President (Student Affairs), B.A., M.A. (GUELPH)					
B. Walt	T. Alberico, Manager of Faculty Recruitment and Retention and Executive Assistant to					
Honorary Fellows of the University	the Provost, B.SC. (GUELPH), CHRP.					
A.P. Auger, Guelph	S.G. Dorr, Coordinator of the Undergraduate Academic Information Centre, B.A., M.A. (GUELPH)					
W. Brock, Toronto	(OUELFH) M. Ridley, Chief Information Officer, B.A. (GUELPH), M.A. (NEW BR.), M.L.S. (TOR.)					
C.H. Franklin, Toronto	<b>P. Tersigni</b> , Coordinator of Undergraduate Curriculum, B.A., M.A. (GUELPH)					
N.W. Hoag, Guelph	<b>P. Zachariah</b> , Judicial Officer, B.A. (CALG.) L.L.B. (OTTAWA)					
T.L. Jones, Toronto	Educational Research Development Unit					
M.H.M. MacKinnon, Guelph	<b>F.T. Evers</b> , Director, B.SC. (C'NELL), M.SC., PH.D. (IOWA STATE)					
E.B. MacNaughton, Guelph	<b>J. Mitchell</b> , Manager, B.A., M.A. (GUELPH)					
A.R. Marchment, Toronto	Office of Resource Planning and Analysis					
T.A. McEwan, Mississauga K. G. Murray, Kitchener	B.D. Pettigrew, Assistant Vice-President (Institutional Research and Planning) and					
N.O. Nielsen, Guelph	Registrar, B.A. (GUELPH), M.S.W. (W.LAUR.)					
J.C. Rennie, Guelph	C.A. Beattie, Research Associate, B.SC. (GUELPH)					
N.R. Richards, Guelph	M. Conrad, Research Associate, B.E.S. (WATERLOO), M.SC. (MCMASTER), PH.D.					
F. Ramprashad, Guelph	(QUEEN'S)					
K. Ronald, Guelph	<b>A.E. Hollings</b> , Research Analyst, B.A. (TOR.), B.SC., M.SC. (GUELPH)					
J.W. Skinner, Guelph	M. Kupferschmidt, Research Associate, B.A. (GUELPH)					
C.M. Switzer, Guelph	Office of the Vice-President (Alumni Affairs and Development)					
J.M. Wardlaw, Guelph	J. Shoveller, Vice-President (Alumni Affairs and Development), B.A. (W. LAUR.), M.B.A. (IVEY)					
W.C. Winegard, Guelph	M.B.A. (IVEY) <b>P. Healey</b> , Assistant Vice-President (Development), B.A. (GUELPH), M.B.A. (W.LAUR.)					
Medal of Merit	Office of the Vice-President (Finance and Administration)					
H.D. Ayers, Guelph						
<b>G.D. Bedell</b> , Camden, Maine, U.S.A.	<b>N. Sullivan</b> , Vice-President (Finance and Administration), B.A. (MCG.) <b>J. Miles</b> Assistant Vice President (Finance and Services) B.A. (WAT.) C.M.A.					
M. Beverley Burton, Guelph	<b>J. Miles,</b> Assistant Vice-President (Finance and Services), B.A. (WAT.), C.M.A. <b>M. Harley</b> , Assistant Vice-President (Human Resources)					
H.G. Downie, Guelph	<b>R.J. Carter</b> , Assistant Vice-President (Physical Resources)					
F.D. Horney, Guelph	Office of the Vice-President (Research)					
T.J. Hulland, Guelph						
J.L. Hunt, Guelph	<b>R. Moccia</b> , Interim Assoc. Vice President (Research) Agri-food & Partnerships; M.SC.					
B.M. McCraw, Guelph	Colleges and Faculties					
J.T. Powell, Guelph	College of Arts					
John Bell Award	<b>D. Bruce</b> , Dean and Professor, B.A. (ALBERTA), M.A. (QU.), PH.D. (TOR.)					
J. Cunsolo, Guelph	College of Biological Science					
W.T. Dickinson, Guelph	M. Emes, Dean, B.SC., P.HD. (SHEFFIELD)					
T.F. Funk, Guelph	College of Management and Economics					
	C.J. McKenna, Dean, B.SC. (SALF.), D.PHIL. (YORK, U.K.)					

#### **College of Physical and Engineering Science**

A. Vannelli, Dean, B.SC., M.SC. (CONCORDIA), PH.D. (WAT.), P.ENG.

#### **College of Social and Applied Human Sciences**

**A.E. Joseph**, Dean, B.A. (LIV.), M.A. (QU.), PH.D. (MCM.)

#### **Ontario Agricultural College**

C.J. Pearson, Dean, B.SC. (AGR.) (W.AUST.), M.SC. (GUELPH), PH.D. (MACQ.) Ontario Veterinary College

E. Stone, Dean, D.V.M. (CALIFORNIA), M.S. (GEORGIA), M.P.P. (DUKE)

#### **Faculty of Graduate Studies**

I.W. Heathcote, Dean of Graduate Studies, B.SC. (TOR.), M.S., PH.D. (YALE) J. Norris, Associate Dean, B.A., M.A., PH.D. (WAT.).

#### University of Guelph-Humber

J. Walsh, Vice-Provost Academic, University of Guelph-Humber, B.A. (ENG.), M.B.A., PH.D (WESTERN)

### **Administrative Departments**

### **Alumni Affairs and Development**

J. Shoveller, Vice President, (Alumni Affairs and Development), B.A. (W. LAUR.), M.B.A. (IVEY)

P. Healey, Assistant Vice-President, (Development), B.A. (GUELPH), M.B.A. (W. LAUR.)

J. Arnold, Associate Director, Financial Services, B.B.A. (W.LAUR.) M.B.A. (W.LAUR.)

C. Bannon Waterman, Director, Central Services, B.SC.(ENG.) (GUELPH)

- J. Barrett, Senior Manager, C.M.E. Advancement, B.A., M.A. (GUELPH)
- C. Bradshaw, Manager, Alumni Affairs, O.A.C., B.A. (GUELPH)
- R. Butler, Director, Gift Planning, B.A. (GUELPH), B.COMM. (WIND.)
- L. Campbell, Senior Development Manager, Library, B.A., M.A. (MCM.)

G. Correia, Director, Annual Giving, B.A. (MCM.)

K. Elton, Senior Manager, Principal Gifts and Donor Relations

- M. Feldskov, Alumni Officer, Chapter Development, B.A. (GUELPH)
- H. Ives, Manager, Events and Communications, B.A.SC. (GUELPH)
- S. Kosakowski, Alumni Manager, C.B.S./C.P.E.S., B.SC.(H.K.), B.A. (GUELPH)

S. Lawrenson, Senior Manager, Student Affairs Advancement, B.MUS.(W. LAUR.)

**R. Manning**, Senior Development Manager, C.B.S./C.P.E.S., B.A. (TRENT), M.A. (CARLETON)

D. Maskens, Senior Manager, C.O.A. Advancement, B.A., M.A. (WATERLOO)

A. Michaud, Science Complex Campaign Director, B.A. (MCGILL.), M.A. (CONCORDIA)

- J. Moreton, Director, Alumni Affairs, B.A. (GUELPH), M.A. (W.LAUR.)
- P. Samson, Director, O.A.C. Advancement, C.DIPL. (GUELPH)
- R. Waterman, Associate Director, Information Systems, B.R.L.S. (BROCK)

S. Woeller, Director, O.V.C. Advancement, B.A. (GUELPH)

#### Arboretum

A. Watson, Director, B.SC. M.SC. (GUELPH)

#### Athletics

T. Kendall, Director of Athletics , B.A., M.A. (Alberta)

**G. Bullock,** Facility Supervisor - Gryphon Centre and Fields, B.PHE. (TOR.), B.ED. (TOR.), M.ED. (OISE)

B. Clausen, Manager of Facilities

- **D.** Cox, Wrestling Coach
- A. Fairweather, Aquatics Program Supervisor, B.SC. (H.K.) (GUELPH), B.ED. (TOR.)

P. Funk, Womens Volleyball Coach, B.A. (WINNIPEG)

G. Garcia, Intramural Coordinator, B.SC. (LAKE SUPERIOR ST.), DIP. REC. (CAMBRIAN)

J. Kana, Assistant Football Coach B.A. (MOUNTALLISON) B.ED. (ACADIA)

S. Lawrenson, Manager - Student Affairs Advancement, B.MUS. (LAURIER)

- K. Lee, Dance, Manager, Fitness and Recreation, B.P.E. (NEW. BR.), B.ED. (ST.F.X.) J.M. Lynch, Assistant Sports Therapist, B.P.H.E. (TOR.), DIP. SIM (SHERIDAN), CERTIFIED
- K.W. Mason, Men's Soccer Coach

Last Revision: January 28, 2008

L. Melnick, Manager, Business and Client Services, B.SC. (P.E.) (YORK, CAN.)

T. Murphy, Women's Soccer Coach, B.A. (GUELPH)

G. Obrascovs, Sports Therapist, DIP. ATHLETIC TRAINING & MGT. (SHERIDAN), CERTIFIED

C.J. O'Rourke, Men's Basketball Coach, B.A. (GUELPH)

A. Orton, Manager, Intercollegiate Athletics, and Women's Basketball Coach, B.SC. (TOR.)

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- J.R. Reid, Men's Hockey Coach and Intercollegiate Supervisor
- P. Richards, Lifestyle and Fitness Program Supervisor, B.P.H.E. (WIND.), B.E.D. (TOR.)D. Scott-Thomas, Cross Country Coach, and Track and Field Coach, B.SC., M.SC.
- (GUELPH), B.ED (QU.), DIP. COACHING (VIC.B.C.)
- L. Skilton-Hayes, Coordinator of Fitness J. Slater, Swim Coach, B.A. (LAURIER)
- M. Turley, Sports Information Director and Field Hockey Coach, B.A. (GUELPH)
- J. Varamo, Events and Community Relations Coordinator, B.A. (GUELPH)
- K. Walters, Football Coach, B.SC. (GUELPH)
- C. Wight, Women's Hockey Coach, B.S.SC. (OTT.)
- E. Wigston, Men's Volleyball Coach
- K. Zuccala, Manager, Marketing and Communications, B.KIN. (MCM.), M.H.K. (WIND.)

#### Audit Services

- S. Nervo, Manager, Audit Services, B.COMM. (TOR.), CA
- H. Huisman, Senior Auditor, B.A. (GUELPH), CGA
- C. Salemi, Senior Auditor Systems, B.COMM. (W. LAUR.), CMA, CISA

#### Centre for Families, Work and Well-Being

L. Hawkins, Executive Director, B.A. (TOR.), M.A. (GUELPH)

**D.S. Lero**, Jarislowsky Chair in Families and Work, B.A. (N.Y. ST.), M.S., PH.D. (PURDUE)

#### **Centre for Food Security**

T.P. Phillips, Director, B.SC. (STAN.), PH.D. (N'CLE) U.K.

#### **Centre for International Programs**

- L.A. Mitchell, Director, B.SC. (AGR.), M.SC. (GUELPH)
- L. Blenkinsop, Study Abroad Manager, B.SC. (GUELPH)
- C. Wallace, Education Abroad Advisor, B.A. (GUELPH)

#### 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. (WAT.)
- L. Bona Hunt, Associate Director, News Service, B.SC. (UTAH)
- B. Chance, Editor, @Guelph, B.A. (GUELPH), M.A. (TOR.), M.A. (W.ONT.)
- R. Cooper, News Service Officer, B.A., B.Ed. (YORK, CAN.), M.A. (W.ONT.)
- M. Dickieson, Manager Publications, B.J. (MISSOURI)
- L. Graham, Publications Assistant, B.A. (GUELPH)
- A. Rawkins, Web Designer
- S. Robertson, Manager, University Website, B.A. (YORK, CAN.)
- A. Vowles, Staff Writer, B.SC. (GUELPH)
- V. Ward, Administrative Assistant

### Campus Community Police, Fire Prevention and Parking Services

R. Begin, Director

(GUELPH)

(WAT.)

**P. Martin**, Manager of Operations, Campus Community Police and Fire Prevention **I. Weir**, Manager, Parking Services

#### **Computing and Communications Services**

**D. Blain**, Manager, IT Security, B.A. (WINDSOR) **P. Briggs**, Manager, Campus Services, B.A. (GUELPH)

L. Loo, Manager, Departmental Services, B.A. (GUELPH)

K. Sprague, Manager, Facilities Services, Organizational Services

**M. Ridley**, Chief Information Officer and Chief Librarian, B.A. (GUELPH), M.A. (NEW BR.), M.L.S. (TOR.)

- D.D. Badger, Associate Director, University Systems, C.G.A.
- K. Bertrand, Associate Director, Organizational Services, B.COMM. (WIND.), C.G.A.
- I. Constantin, Manager, Business Office, Organizational Services, B.A., B.A. (A.S.E.)
- P.L. Jones, Senior Manager, Operations, B.TECH. (LOUGH.), CERT. ED. (NOTT.)

J. Lennie, Associate Director, Information Infrastructure Serices, B.A. (GUELPH)

K. Percival, Manager, IT Development, B.SC. (ENG.), (QU.), M.SC. (GUELPH)

B. Wandschneider, Associate Director, Information Systems Services, B.A. (QU.), M.A.

R. Ward, Manager, Evaluation and Analysis, Organizational Services, B.SC., M.SC.

2007-2008 University of Guelph Undergraduate Calendar

A. Weller, Manager, Personnel and Administration, Organizational Services

### **Co-operative Education and Career Services**

K. Reimer, Director, B.A. (WAT.), M.A. (GUELPH), BUS. DIP. (W.LAUR.)

J. Perry, Assistant Director, B.A. (WIND.)

M. Brodie, On-Campus Coordinator, B.A. (GUELPH)

J. Brydges, Co-op Coordinator, B.A. (W.ONT.), DIP. ED. (MCG.)

M. Chanda, Coordinator, Career Development and On-Line Inititatives, B.A. (W.LAUR.), M.ED. (W.ONT.)

J. Ferguson, Coordinator, Educational Planning & Job Search, B.A. (GUELPH)

S. Gallina, Co-op Coordinator, B.A. (GUELPH)

S. Goody, Co-op Coordinator, B.A.SC. (GUELPH)

A. Kramer, Co-op Coordinator, B.SC. (WAT.)

L. McCreery, Coordinator, Career Planning, B.A. (YORK, CAN.), M.SC. (GUELPH) S. Nuttley, Office Systems Manager

**C. O'Brien**, Marketing Coordinator, Liaison and Promotions, B.A. (GUELPH), DIP. JOURNALISM (CONESTOGA)

**B.** Pires, Coordinator, Employer Development and Events, B.A. (GUELPH.), Dip. Research Analysis (GEORGIAN)

S. Popkey, Co-op Coordinator, B.A. (GUELPH)

C. Steele, Coordinator, Employer Development and Events

I. Wallace, Co-op Coordinator, B.B.A. (W.LAUR.) B. Wilson, Co-op Coordinator, B.SC. (WAT.)

Environmental Health and Safety

C.A. White, Director, Environmental Health and Safety, B.SC., PH.D. (CARLETON)

**D. Barillari**, Radiation Safety Officer, B.A.SC., M.ASC. (TOR.), PH.D. (MANITOBA) **C. Cooper**, Industrial/Agricultural Safety Officer, RVT.

C. McNeill, Facilities Safety Officer, B.SC. (QUEEN'S), M.ENG. (TOR.), CIH, ROH

J. Minogue, Biosafety Officer, B.SC. (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.SC., 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.

N.L. Nelson, Manager, Accounts Payable

C. Shanahan, Manager, Purchasing and Mail Services, C.P.P.

L.C. Shuh, Manager, Budget Office, B.A. (GUELPH), C.G.A.

G. White, Manager, Revenue Control, B.SC. (GUELPH), B.ED., C.H.A.

#### **Health and Performance Centre**

C. McLean, Centre Coordinator, 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. Willms, Department Head, Community Services

### Human Resources

M. Harley, Assistant Vice-President (Human Resources), H.B.SC.

G. MacNeil, Manager, Occupational Health Services, B.Sc., R.N.

B. Soye, Manager, Employee Relations, B.A. (WAT.)

L. Wilson, Manager, Compensation and Benefits, B.SC., M.B.A. (MCM.)

### Human Rights and Equity Office

P. Case, Director, LL.B. (OSGOODE)

- M. Ebrahim, Human Rights Consultant, M.SC. (W.ONT.)
- J. McConnell, Human Rights Consultant, B.A. (TRENT)

2007-2008 University of Guelph Undergraduate Calendar

### Learning Commons

J. Kaufman, Co-Director, B.A. (WAT.), M.L.S. (TOR.)
N. Schmidt, Co-Director, B.A., M.Sc. (WIS.), ED.D. (TOR.)
B. Christian, Writing and ESL Services Coordinator, B.A. (W.ONT.), M.A. (TOR.)
M. Kope, Learning Services Coordinator, B.A. (W.LAUR.), B.ED. (QU.), M.ED. (OISIE)
E. Murison, Writing Consultant, B.SC. (GRIFFITH), M.A. (SYDNEY)
J. O'Hatnick, Learning Specialist, B.A. (CARLETON COLLEGE), M.A. (MINN.)

M. Wilson, Supported Learning Groups Coordinator, B.A., M.A. (GUELPH) Library

**M. Ridley**, Chief Information Officer and Chief Librarian, B.A. (GUELPH), M.A. (NEW BR.), M.L.S. (TOR.)

G. Ashoughian, Manager, Guelph-Humber Learning Commons and Library Services, M.L.I.S. (L.S.U.)

**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. J.F. Brett, Manager, OVC Learning Commons, B.SC., M.SC. (GUELPH), M.L.S. (W.ONT.)

L.D. Bruce, Head, Archival and Special Collections, B.A., M.A. (MCM.), M.L.S. (W.ONT.)

E. Bungay, Web Development Librarian, B.SC., B.A., B.ED. (MEM.), M.L.I.S. (MCG.)

J. Burpee, Manager, Reference and Information Literacy, B.A. (C'DIA), M.L.I.S. (MCM.)

- 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

L.G. Day, Electronic Services Librarian, B.A., M.L.S. (W.ONT.), M.A. (GUELPH)

R.M. Daehn, Systems Librarian, B.A. (WAT.), M.L.S. (W.ONT.)

M.J. D'Elia, Academic Liaison Librarian, B.A. (W.ONT.), M.L.I.S. (DAL.) B.P. Eaves-Brown, Academic Liaison Librarian, B.A. (C'DIA.), B.F.A. (WIND.), M.A.

(DAL.), M.F.A., M.L.S. (CDIA.)

A.D. Gale, Evaluation and Analysis Librarian, B.SC. (CAR.), M.SC. (ALTA.), M.L.S. (TOR.)

S. Gillies, Academic Liaison Librarian, B.A. (WAT.), M.A. (QU.), M.L.I.S. (W.ONT.)

A. Gow, Coordinator, Library Centre for Students with Disabilities, B.ED. (TOR.), B.A., M.A. (GUELPH)

L. Graburn, Academic Liaison Librarian, B.SC. (S.U.N.Y.), M.A., M.L.I.S. (W.ONT.)

D.A. Horne, Head, Academic Liaison, B.A., M.A., M.L.I.S. (W.ONT.)

- W. Johnston, Digital Services Librarian, B.A., M.L.S. (W.ONT.)
- J. Kaufman, Head, Information Services, B.A. (WAT.), M.L.S. (TOR.)
- P. Lupien, Academic Liaison Librarian, B.A. (MCG.), M.L.I.S. (MONTR.)
- J. Marvin, Academic Liaison Librarian, B.A. (GUELPH), M.A. (QU.), M.L.I.S. (W.ONT.)
- H. Martin, Manager, E-Learning Operations Reserve, and TUG Annex Services K. Mooney, Media Services
- C. Perry, Academic Liaison Librarian, B.A. (GUELPH), B.ED. (QU), M.L.I.S. (W.ONT.)
- J. Phillips, Academic Liaison Librarian, B.SC. (GUELPH, (M.L.I.S.) (W.ONT.)

I.A. Platero, Academic Liaison and Information Literacy Librarian, Guelph-Humber, B.SC., M.SC. (MCG.), M.L.I.S. (W.ONT.)

L.E. Rourke, Academic Liaison Librarian, B.A., M.A., M.L.S. (W.ONT.)

**R. Sakowski**, Academic Liaison Librarian, B.A. (SASK), M.A. (SASK.), M.L.I.S. (W.ONT.)

H. Salmon, Associate Chief Librarian, User Services, B.A., M.A., M.L.S. (W.ONT)

D. Sartori, Manager, Circulation and Interlibrary Services

K. Sprague, Manager, Facilities Services, Organizational Services

**C. Steeves,** Associate Chief Librarian, Information Technology Services, B.A. (MCG.), M.L.I.S. (W.ONT.)

**J.Walker**, Manager Systems Support, Information Technology Services, B.SC., B.A. (GUELPH), M.I.ST. (TOR.)

J. Wanner, Academic Liaison Librarian, B.A. (MINN.), M.E. (TEMPLE), M.L.S. (W.ONT.)

**R. Ward,** Manager, Evaluation and Analysis, Organizational Services, B.SC., M.SC. (WAT.)

A. Weller, Manager, Personnel and Administration, Organizational Services

### **Macdonald Stewart Art Centre**

J. Nasby, Director and University of Guelph Curator, B.A. (MCM.)

### **Office of Open Learning**

V.L. Gray, Director, D.C. (TOR.)

- **M. Fach**, Manager of Finance and Operations, MBA (ATHABASCA)
- **P. Cathers**, Acting Administrative Assistant to the Director and Secretary, Senate Committee on Open Learning, B.A. (EXETER)

S. Fleischauer, Manager, Program Development, B.A. (W. LAUR.), B.L.A. (GUELPH)

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- K. Merrikh, Marketing Manager, B.COMM. (GUELPH)
- D. Wilson, Manager of Information Systems, B.COMM. (GUELPH)

### **Continuing Education**

XVI. Administration and Faculty, Administrative Departments		
W. Hodges, ESL Academic Coordinator/Head Teacher, B.SC. (TOR.), M.ED. (BROCK)	R P	
R. Louttet, Manager, Program Development, B.COMM. (GUELPH)		
<b>P. Nagle</b> , Manager, Program Development, B.A. (WAT.), M.ED. (WIND.), M.B.A. (W.ONT.)	C fo	
M. Prosser, Manager, Program Development, B.SC.(AGR.) (GUELPH)	D	
P. Schennach, Senior Continuing Education Manager, Program Development, B.A.	(0	
(CARLETON), B.ED. (WIND.), M.ED. (W.ONT.)	P	
P. Shaver, Horticulture/Landscape Program Tutor, B.SC.(AGR.) (GUELPH)	F C	
L. Smedmor, Manager, Program Development, B.A.SC. (GUELPH), M.ED. (BROCK)	J	
Distance Education	(	
M. Brooks, Distance Learning Program Development Specialist, B.ED., M.ED. (REGINA) J. Butler, Distance Learning Program Development Specialist, B.SC. (N.) (MCG.), M.ED. (OISE/TOR.)	B	
<b>J. Cassidy</b> , Manager, Distance Education and DE Learning Technologies, B.A., M.A., PH.D. (GUELPH)	I	
S. Douglas, Distance Learning Program Development Specialist	F I	
N. Giesbrecht, DE Production Manager, B.A.(GUELPH)	A	
M. Komarnitsky, Acting Open Learning program Counsellor, B.A. (QU.)	J	
<ul> <li>F. Krauss, Distance Learning Program Development Specialist, B.A. (W. LAUR.), B.ED. (TOR.), M.DIST.ED. (ATHABASCA)</li> <li>M. Misanchuk, Distance Learning Program Development Specialist, B.A. (SASK.),</li> </ul>	S	
M. M.Sc., PH.D. (INDIANA)	S	
J. Morrison, Project Manager Multimedia, B.A. (WINDSOR)	-	
J. Palmer, Distance Learning Program Development Specialist, B.A. (MICH. STATE), M.S. (SURREY)	E E	
G. Sabatine, Acting e-Learning Program Manager, B.Comp. (GUELPH)	I	
J. Speers, e-Learning Program Manager, B.A. (GUELPH)	J	
Office of Registrarial Services	F	
<b>B.D. Pettigrew</b> , Assistant Vice-President (Institutional Research and Planning) and Registrar, B.A. (GUELPH), M.S.W. (W.LAUR.)	V B	
K. Parkinson, Research Analyst, B.A., M.SC. (GUELPH) D. Plexman, Manager, Special Projects, B.A. (MORAVIAN), M.S. ED. (MONMOUTH)	A	
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H. Clark, Admissions Coordinator, B.A. (MCM.)	I	
E. Gatsinos, Assistant Registrar, Student Recruitment, B.A., M.A. (GUELPH)	F N	
S. Goody, Liaison Officer, Recruitment Events, B.A.Sc. (GUELPH)	(	
M. Haggarty, International Liaison Coordinator, B.A. (GUELPH)	Ś	
J. Hogan, Admissions Counsellor, B.A. (GUELPH)	(]	
D. Lundmark, Admissions Counsellor, B.A. (GUELPH)	T	
P.C. Scott, Admissions Counsellor, B.A. (GUELPH)	0	
N. Shepard, Liaison Officer, National Recruitment, B.A. (GUELPH)	() K	
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<b>B. Palmer</b> , Manager Student Business Services	J	
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	- P	

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  - heikh, Multifaith, Muslim
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E. Hunse, Shift Supervisor, Operations

S. Campbell, Assistant Manager, Operations

M. Hahn, Manager, Building and Reservations

P. John, Business Manager, B.COMM., C.G.A.

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M. Smart, Acting Bachelor of Arts & Science Program Counsellor, B.A. (GUELPH)

S. Lapenskie, Assistant Bachelor of Arts Program Counsellor, B.A. (WESTERN), M.F.A. (GUELPH)

M. Cowan, Acting Assistant Bachelor of Arts Program Counsellor, B.A. (GUELPH) **Department of History** 

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D.T. Andrew, Professor, B.A. (C.C.N.Y.), M.SC. (LOND.), PH.D. (TOR.)

C. Carstairs, Associate professor, B.A. (HARVARD), M.A., PH.D. (TOR.)

K.M. Cassidy, Associate Professor, B.A. (MONTR.), M.A., PH.D. (TOR.)

W.S. Cormack, Associate Professor, B.A. (CALG.), M.A. (CAR.), PH.D. (QU.)

E.L. Ewan, Professor, University Research Chair, B.A. (QU.), PH.D. (EDIN.)

P.A. Goddard, Associate Professor, B.A. (BR.COL.), D.PHIL (OXON.)

A. Gordon, Associate Professor, B.A. (TOR.), M.A., PH.D. (QU)

M.C. Hayday, Assistant Professor, B.A. (TOR.), M.A., PH.D. (OTTAWA)

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.)

2007-2008 University of Guelph Undergraduate Calendar

F.J. Kolapo, Associate Professor, B.A., M.A. (AHMADU BELLO), PH.D. (YORK, CAN.)

S. Lachapelle, Assistant Professor, B.SC., M.A. (MONTREAL), PH.D. (NOTRE DAME)

L.L. Mahood, Associate Professor, B.A. (SASK.), M. LITT., PH.D. (GLAS.)

D.W. McCalla, Professor and Canada Research Chair, B.A. (QU.), M.A. (TOR.), D. PHIL. (OXFORD)

S.G. McCook, Associate Professor, B.A. (TOR), M.S. (RENSSELAER P.I.), M.A., PH.D. (PRINCETON)

A. McDougall, Associate Professor, B.A., M.A., D. PHIL. (OXFORD)

G. Morton, Professor and Scottish Studies Foundation Chair, M.A., PH.D. (EDINBURGH)

J. Murray, Professor, B.A. (HONS) (UBC), M.A., PH.D. (TOR.)

S. Nance, Assistant Professor, B.A., M.A. (SIMON FRASER), PH.D. (UC BERKELEY)

J.S. Palsetia, Associate Professor, B.A., M.A., PH.D. (TOR)

K. Racine, Associate Professor, B.A. (SASK), M.A., PH.D. (TULANE)

R.M. Reid, Associate Professor, B.A. (CAR.), M.A., PH.D. (TOR.)

N. Smith, Assistant Professor, B.A., M.A., PH.D. (UBC)

C.A. Wilson, Associate 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. Wayne, Associate Profesor and Departmental Chair, B.Sc. (TOR.), M.A., PH.D. (UC SAN DIEGO)

K. Dorter, Professor Emeritus, B.A. (QUEEN'S 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.

D. Odegard, University Professor Emeritus, B.A., M.A. (UWO), PH.D. (LONDON)

T.W. Settle, Professor Emeritus, B.A. (LEEDS), B.SC. (MANC.), PH.D. (HONGKONG)

C. Stewart, Professor Emeritus, B.A., M.A., (MANITOBA), PH.D. (LONDON)

A. Bailey, Assistant Professor, B.A., M.A. (OXON.), PH.D. (CALG.)

D. Castle, Associate Professor, B.SC., B.A. (ALTA.), M.A. (MCM.), PH.D. (GUELPH)

D. Dedrick, Assistant Professor, B.A., M.A. (CARLTON), PH.D. (TOR.)

P. Eardley, Assistant Professor and Undergraduate Coordinator, B.A. (MCGILL), M.A., PH.D. (TOR)

K. Freedman, Assistant Professor, B.A., M.A. (MAN.), PH.D. (TOR.)

J. Harvey, Associate Professor, B.A.(WALES), M.S., M.A. (EDUC.) (S. FRASER), PH.D. (U.B.C.)

K.L. Houle, Assistant Professor, B.SC., M.A., PH.D. (GUELPH)

J. Lampert, Associate Professor, B.A., M.A., PH.D. (TOR.)

P. Loptson, Professor, B.A. (YORK, CAN.), M.A., PH.D. (PITTS.)

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J.E. Russon, Associate Professor, B.A. (REGINA), M.A., PH.D. (TOR.)

P. Sheridan, Assistant Professor, B.A. (MCG.), M.A. (CON.), PH.D. (W.ONT.)

K. Wendling, Assistant Professor, B.A. (MICH.ST.), M.A., PH.D. (TOR.)

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### Art History

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L. Teng, Assistant Professor, B.I.E. (WUXI), M.M.E. (BEIJING), PH.D. (C'DIA.)

A.E. Wilcock, Associate Professor, B.A.SC. (GUELPH), M.S., PH.D. (PURDUE)

S. Yi, Assistant Professor, B.B.A., M.B.A. (SEOUL), PH.D. (PENN STATE)

#### School of Hospitality and Tourism Management

AIX-MARSEILLE)

(GUELPH), M.SC. (MANIT.)

WASHINGTON), PH.D. (TEXAS A&M)

B.COMM. (GUELPH), M.B.A., PH.D. (YORK, CAN.)

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(DUQUESNE), M.SC. (CALIF. AMERICAN), PH.D. (BRADFORD)

T.L.W. MacLaurin, Associate Professor, B.S., M.S., PH.D. (KANSAS)

(BOISE STATE), M.B.A., PH.D. (WASHINGTON STATE)

(PETERBOROUGH), M.SC. (NEVADA), PH.D. (KANSAS)

B.COMM., M.SC. (GUELPH), PH.D. (KANSAS)

M. Shaw, Professor, B.S., M.B.A., PH.D. (C'NELL)

(MCM.)

(MICH.ST.)

(C'NELL)

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L. Allen, Academic Assistant to the Dean, Bachelor of Science and Bachelor of Computing Program Counsellor, B.SC., M.SC. (GUELPH)

A.G. Dyer, Bachelor of Computing Program Counsellor and Professor, B.SC., M.SC. (GUELPH)

L. Jones, Bachelor of Science in Technology Program Counsellor and Assistant Professor, B.SC. (NEW BR.), PH.D. (GUELPH)

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J. Sawada, Assistant Professor, B.SC., PH.D. (VICTORIA)

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**Department of Physics** 

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J. Weiner, Associate Professor, B.MATH., M.MATH. (WAT.), B.ED. (QU.)

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(BR.COL.)	V.J. Davidson, Professor, B.ENG. (MCM.), M.SC. (GUELPH), PH.D. (TOR.), P.ENG	
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K.R. Jeffrey, Professor Emeritus, B.SC., M.A., PH.D. (TOR.)	P.ENG.	
J. Law, Professor Emeritus, B.SC., PH.D. (LOND.)	D. Fayek, Assistant professor, B.ENG. (AIN-SHAMS), M.SC., PH.D. (WAT.)	
B.M. Millman, Professor Emeritus, B.SC. (CAR.), PH.D. (LOND.)	B. Gharabaghi, Assistant Professor, B.SC., M.SC. (IRAN), PH.D. (GUELPH), P.ENO	
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Faculty of Environmental Sciences	M. Roth, Adjunt Professor, B.SC., M.SC., PH.D. (WAT.), P.ENG.	

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### Glossary

#### Academic Evaluation

The Academic Evaluation Report is a report of a student's academic progress towards the completion of a specified program and specialization.

#### **Academic Sanction**

Academic sanction is the penalty applied to students who fail to make payment, or suitable arrangements for payment, of their University account. Students on academic sanction may not receive semester examination results or official transcripts; may not receive clearance to graduate; and/or may not be allowed to register for a subsequent semester.

#### Academic Session

See Academic Term.

#### Academic Term

An academic term is an independent academic period of 15 weeks, half of an academic year. Also referred to as a semester (see definition below).

#### Academic Year

An academic year is two semesters; undergraduate traditionally classified as first year (freshman), second year (sophomore), third year (junior), or fourth year (senior). Under the semester system this classification has less meaning than under a whole year system but is occasionally used to indicate the level at which a student has arrived.

#### Add Period

The add period takes place at the beginning of the semester where students are permitted to add courses for the current semester.

#### **Assigned Grade**

An assigned grade is a numerical grade based on the instructor's recommendation and granted at the discretion of the Program Committee to students who have not completed course requirements.

#### Audit

An audit is registration in a course for which degree or diploma credit is not sought. Audited courses are not reported on the official transcript or academic record.

#### **Baccalaureate**

Baccalaureate refers to an undergraduate degree awarded by the University upon successful completion of the requirements of a program.

#### **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.

#### **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.

#### **Concurrent Course**

A concurrent course must be taken concurrently with (if not taken prior to) another specified course.

#### **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.

#### **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 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. Sometimes called the Diploma Catalogue or Bulletin.

#### **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. Note valid for Academic Terms after Winter 1999.

#### 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.

#### **Instructor Notification**

Courses that are declared instructor notification on the course outline require departmental approval to be dropped.

#### Mailing Address

The mailing address is a temporary address used for mailing if one is recorded; otherwise the home address is used.

#### New Student

New student refers to a student who has never before been registered at the University of Guelph.

#### Prerequisite

A prerequisite is a prior requirement for entry into a course. Where a course is specified as a prerequisite, pass standing in the course is required.

#### **Priority Access**

Priority Access is the process by which a department implements course restriction rules in order to limit registration in a course where enrolment demand habitually exceeds course capacity and where there is demonstrated need to restrict access to a particular cohort of students on a priority basis. In general, course restrictions are clearly defined in the calendar course listings so that students are advised in advance of the intended audience for the course.

#### Program

A program is a structure of courses leading to a University degree (e.g. B.A.Sc. program).

#### **Program Counsellor**

See Chapter VII - Academic Advising.

The program counsellor is someone who assists students in the development of educational plans which are realistic and compatible with their life goals by helping to identify and assess alternatives and consequences of decisions, and providing interpretation of regulations applying to the specific degree program.

#### Registration

Registration is the official enrolment of students in the University for a particular semester, and includes the selection of course sections and the payment of tuition fees and, where appropriate, other University fees.

#### **Required to Withdraw (see Rustication)**

#### **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.

#### 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, June.

#### **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 07-08 Undergraduate Calendar includes the following revisions:

#### 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, 2007

Initial publication of the 2007-2008 Undergraduate Calendar.

### March 29, 2007

This second publication includes the following revisions:

Chapter X - Degree Programs - B.A. - Music - Area of Concentration (General Program) and Major (Honours Program)

Changes to the number of minimum Music credits.

Chapter X - Degree Programs - B.Sc.(Env.) - Environmental Monitoring and Analysis Changes to Semester 5, 6, 7 and 8.

Chapter XII - Course Descriptions - Co-operative Education

Changes to the Lecture hours for COOP\*1100 Chapter XVI Administration and Faculty

Changes and updates to various listings.

### May 1, 2007

This third publication includes the following revisions:

Chapter III - Schedule of Dates

New date for the Last day of course selection for Fall 2007 - New Students

Chapter VI - Schedule of Fees - Special University Fees - Graduation Fee Change in the Graduation Fee

#### Chapter XII - Course Descriptions - Business

Change in Restriction(s) to include International Development

**Chapter XII - Course Descriptions - Meteorology** 

Deletion of MET\*4310

### May 24, 2007

This fourth publication includes the following revisions:

Chapter X - Degree Programs - B.Sc.(Agr.) - Crop, Horticulture and Turfgrass Sciences (CHATS)

Restricted Electives - Turfgrass Science -- removal of first paragraph.

### June 28, 2007

This fifth publication includes the following revisions:

Chapter X - Degree Programs - B.A. - Rural Extension Studies (RES)

Removal of Rural Extension Studies from the Calendar.

### July 27, 2007

This sixth publication includes the following revisions:

Undergraduate Calendar

• Bachelor of Engineering program name changed from 'Systems and Computer Engineering' to 'Engineering Systems and Computing'

Chapter X - Degree Programs - B.A. - European Studies, Italian and Museum Studies

Removal of deleted courses and addition of new courses in the above listed programs.

• Removal of deleted course ARTH\*3350, ARTH\*3550, ARTH\*3570

• Addition of ARTH\*3310, ARTH\*3320, ARTH\*330 and ARTH\*3340

### **Chapter XII - Course Descriptions - Economics**

ECON\*3560 addition of Winter offering

Chapter XVI Administration and Faculty

Changes and updates to various listings.

### September 28, 2007

This seventh publication includes the following revisions:

Undergraduate Calendar

### Chapter X - Degree Programs - B.A. - European Studies,

Course replacement and course addition in the above listed program.

• HUMN\*3020 replaces HUMN\*3440 in Group A of the European Culture and Civilization Area of Emphasis.

• Addition of ARTH\*3320 in Group C of the European Culture and Civilization Area of Emphasis.

#### **Chapter XVI Administration and Faculty**

Changes and updates to various listings.

## November 13, 2007

This eighth publication includes the following revision:

#### Undergraduate Calendar

# Chapter X - Degree Programs - B.Comm. - Management Economics in Industry & Finance (MEIF), (MEIF:C)

Correction in the Restricted Electives

• correction -- replaced "at least" with "at most" 0.50 credits can be at the 2000 level

Chapter XII - Course Descriptions - Engineering

Change to the prerequisites for ENGG\*4510

### January 28, 2008

This ninth publication includes the following revision:

Undergraduate Calendar

### Chapter III - Schedule of Dates - Winter Semester 2008

- Addition of the new Holiday -- Monday, February 18th.
- The last day for the Summer and Fall 2008 course selection period (for In-course students) -- has changed from Monday, March 24th to Tuesday, March 25th.