

Brock University

Undergraduate Calendar
2009 / 2010

This Calendar provides guidance to applicants for admission, students, faculty and staff. The Calendar is subject to change without notice, as deemed appropriate by the Brock University Senate.

Please consult the WEB version of the calendar at :
www.brocku.ca/registrar for the most current version.

MISSION STATEMENT

Brock University flourishes through the scholarly, creative, and professional achievements of its students, faculty and staff. Offering a range of undergraduate and graduate programs, Brock fosters teaching and research of the highest quality. As a diverse and inclusive community, we contribute positively to Canada and beyond through our imagination, innovation and commitment.

Senate Academic Program Committee

Hugh Gayler (Chair), James Mandigo (Vice-Chair), Maureen Connolly, Murray Kropt, Sharon Abbey, Phillip Mackintosh, Carmela Collela, Barry Wright, Sheryl Huff, Bob Lanteigne, Jack Lightstone, Terry Boak, Greg Finn, Rosemary Hale, Barbara Sainty, Barb Davis, Kim Meade, Astride Silis, Corrado Federici (BUFA Representative)

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Faculty Structure

Academic Faculties

Faculty of Applied Health Sciences

Dean, John T. Corlett, BSc *Brock*, MSc, PhD *Simon Fraser*

Interim Dean, Anna H. Lathrop, BPhEd *Brock*, MA *Western Ontario*, EdD *Toronto*

Interim Associate Dean, Undergraduate Student Affairs, Colleen Hood, BPE *Calgary*, MS, PhD *Illinois*

Associate Dean, Research and Graduate Studies, Michael L. Plyley, BSc, PhD *Western Ontario*

Community Health Sciences
(Biomedical Sciences, Child Health,
Community Health, Health Sciences and
Public Health)
Nursing
Physical Education and Kinesiology
Recreation and Leisure Studies
Sport Management

Faculty of Business

Interim Dean, Barbary Sainty, BAdmin *Regina*, MA, PD *Ohio State*, CA, CMA

Associate Dean, Donald A. Cyr, Graduate Programs, *Concordia*, MBA *Saskatchewan*, MA, PhD *Alberta*

Interim Associate Dean, Barry Wright, Undergraduate Programs, BPE *Alberta*, MA, PhD *Queen's*

Accounting
Finance, Operations and Information
Systems
Organizational Behaviour, Human Resource
Management, Entrepreneurship and Ethics
Marketing, International Business
and Strategy

Faculty of Education

Dean, James L. Heap, BA *California, Santa Barbara*, MA *British Columbia*, PhD *British Columbia*

Associate Dean, Rodger J. Beatty, AMus *Western*, BMus *Western*, BEd *Toronto*, MEd *Queen's*, EdD *OISE/University of Toronto*

Interim Associate Dean, Debra McLaughlan, BA *McMaster*, MEd *Brock*, PhD *Toronto*

Adult Education and Community Outreach
Concurrent Education Programs
Continuing Teacher Education
Graduate and Undergraduate
Studies in Education
Instructional Resource Centre (IRC)
International Initiatives
Teacher Education
Tecumseh Centre for Aboriginal
Research and Education

Faculty of Graduate Studies

Dean, Marilyn J. Rose, BA *McMaster*, MA *Concordia*, PhD *McMaster*
Professor of English Language and Literature

Master's programs:
Accounting
Applied Disability Studies
Applied Health Sciences
Applied Linguistics (TESL)
Biological Sciences
Biotechnology
Business Administration
Business Economics
Chemistry
Child and Youth Studies
Classics
Computer Science
Earth Sciences
Education
English
Geography
History
Management
Mathematics and Statistics
Philosophy
Physics
Political Science
Popular Culture
Psychology
Social Justice and Equity Studies
Sociology
Studies in Comparative Literatures and Arts

Doctoral programs:

Biological Sciences
Biotechnology
Chemistry
Educational Studies (Joint Program)
Psychology

Faculty of Humanities

Dean, Rosemary Hale, BA *Kent State*, MA *Eastern Michigan*, MTS, PhD *Harvard*

Associate Dean, Student Affairs and Curriculum, John Lye, BA *Toronto*, MA *Texas*

Associate Dean, Research and Graduate Studies, Jane M. Koustas, BA *Queen's*, MTrad *Montréal*, PhD *Queen's*

Applied Linguistics
Canadian Studies
Classics
Dramatic Arts
English Language and Literature
General Studies
History
Interactive Arts and Science
Intercultural Studies
Liberal Arts
Medieval and Renaissance Studies
Modern Languages, Literatures
and Cultures
(French, German, Italian and Spanish)
Music
Philosophy
Studies in Arts and Culture
Visual Arts

Faculty of Mathematics and Science

Dean, Ian D. Brindle, BSc *Manchester*, MSc *Brock*, FRSC (UK), DSc *Manchester*

Associate Dean, Richard J. Cheel, BA *McMaster*, MSc *Ottawa*, PhD *McMaster*

Biochemistry
Biological Sciences
Biomedical Sciences
Biophysics
Biotechnology
Chemistry
Computer Science
Computing and Business
Computing and Network
Communications

Computing and Solid-State
Device Technology
Earth Sciences
General Studies
Mathematics
Neuroscience
Oenology and Viticulture
Physics
Science

Faculty of Social Sciences

Dean: Thomas Dunk, BA *Alberta*, MA,
PhD *McGill*

Associate Dean, Dorothy Griffiths, BA
Brock, MA *Guelph*, PhD *Toronto*

Business Economics
Child and Youth Studies
Communication, Popular Culture and Film
Distinct and Diverse Communities
Economics
General Studies
Geography
International Political Economy
Labour Studies
Political Science
Psychology
Sociology
Tourism and Environment
Women's Studies

II. Affiliated College

Acting President: Reverend Thomas
Winger, BA *Concordia College, Ann Arbor*,
MI, MDiv *Concordia Lutheran Theological
Seminary*, STM, MO, ThD *Concordia
Seminary, St. Louis*

Concordia Lutheran Theological Seminary, an
affiliated college of the University, prepares
students for the Master of Divinity (four-year
program) and Master of Theological Studies
(two year program) degrees. All degrees are

granted by the University. The seminary is
operated by the Lutheran Church - Canada and
is an Associate Member of the Association of
Theological Schools in the United States and
Canada.

III. Continuing Education

Director

Tom Arkell
Community Services

Lifelong learning has become a way of life. As a
partner in the Niagara Region, Continuing
Education is committed to providing lifelong
learning opportunities for individuals of all
ages and backgrounds.

Continuing Education's non-credit courses,
offered through the Learning and Leisure
Guide, provide opportunities for both personal
enrichment and professional development.
Courses are offered in the areas of art, music,
history, law, horticulture, languages, literature,
cultural explorations, travel adventures and
many more.

The department offers year-round program-
ming in three distinct terms. Courses appeal to
those seeking to maintain purpose and mean-
ing in their lives, enhance their careers, improve
their health and relationships, meet new and
exciting people, and connect more produc-
tively with their communities.

Undergraduate Sessional Dates

An academic timetable (Registration Guide) giving the times and locations of all courses offered in any one Session (Fall/Winter, Spring or Summer) is available on the Registrar's Website at: www.BrockU.CA/registrar/birtguides/index.html prior to the beginning of each session.

NOTE: All dates refer to undergraduate studies unless otherwise specified.

SPRING 2009

Monday, May 4

First day of classes for duration 1 and duration 2 courses. Please consult the Spring and Summer Registration Guide for further details.

Sunday, May 10

Last day for duration 1 and duration 2 late registration and course changes without permission of the instructor. Brock Registration System closes for duration 1 and duration 2 adds; last day to drop courses without financial penalty. After this date, manual course change requests are required.

Monday, May 18

Victoria Day. University closed (no classes); library open.

Friday, May 22

Make-up day for Victoria Day duration 1 and duration 2 classes. The schedule will be that of a Monday.

Friday, May 29

Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 2 courses.

Friday, June 5

Last day of lectures for duration 2 courses.

Friday, June 5 and Saturday, June 6

Progress examinations for duration 1 courses and final examinations for duration 2 courses.

Monday, June 8

First day of classes for duration 3 courses.

Tuesday, June 9 to Saturday, June 13

Spring Convocation.

Sunday, June 14

Last day for duration 3 late registration and course changes without permission of the instructor. Brock Registration System closes for duration 3 adds; last day to drop courses without financial penalty. After this date, manual course change requests are required.

Friday, June 26

Make-up day for July 1 duration 1 and duration 3 classes. The schedule will be that of a Wednesday.

Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 1 courses.

Wednesday, July 1

Canada Day closure. University closed (no classes); library open.

Thursday, July 2

Last date for receipt of applications to graduate at Fall Convocation.

Friday, July 3

Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 3 courses.

Friday, July 10

Last day of lectures for duration 1 and duration 3 courses.

Friday, July 10 and Saturday, July 11

Final examinations for duration 1 and duration 3 courses.

SUMMER 2009

Monday, July 13

First day of classes for duration 1 courses. Please consult the Spring and Summer Registration Guide for further details.

Friday, July 17

Last day for duration 1 late registration and course changes without permission of the instructor. Brock Registration System closes for duration 1 adds; last day to drop courses without financial penalty. After this date, manual course change requests are required.

Monday, August 3

Civic holiday. University closed (no classes); library open.

Friday, August 7

Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 1 courses.

Thursday, August 20

Last day of lectures for duration 1 courses. Make-up day for Civic Holiday. The schedule will be that of a Monday.

Thursday, August 20 and Friday, August 21

Final examinations for duration 1 courses.

FALL 2009

Tuesday, September 2

First day of Fall/Winter Session, Teacher Education Program only.

Monday, September 7

Labour day. University closed; library closed.

Residence Move In Day.

Thursday, September 10

First day of Fall/Winter Session, duration 1 and duration 2, day and evening sections, Undergraduate program.

<p>Friday, September 25 Last day for duration 1 and duration 2 late registration and course changes without permission of the instructor. Brock Registration System closes for duration 1 and duration 2 adds; last day to drop courses without financial penalty. After this date, manual course change requests are required.</p>	<p>Friday, January 22 Last day for duration 3 late registration and course changes without permission of the instructor. Brock Registration System closes for duration 3 adds; last day to drop courses without financial penalty. After this date, manual course change requests are required. Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 1 courses.</p>
<p>Monday, October 12 Thanksgiving Day. University closed (no classes); library closed. (see December 3)</p>	<p>Monday, February 1 Last day for receipt of applications to graduate at Spring Convocation.</p>
<p>Saturday, October 17 Fall Convocation.</p>	<p>Monday, February 15 Family Day. University closed (no classes). (see April 12)</p>
<p>Friday, November 6 Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 2 courses without academic penalty.</p>	<p>Monday, February 22 to Friday, February 26 Reading Week. No classes will be held in undergraduate programs.</p>
<p>Sunday, November 8 Fall Preview Day.</p>	<p>TBA President's Holiday. Administrative offices closed; Registrar's Office and library open.</p>
<p>Thursday, December 3 Last day of lectures, Fall Term, duration 2 courses. Make up day for Thanksgiving Day duration 1 and duration 2 classes. The schedule will be that of a Monday.</p>	<p>Friday, March 5 Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 3 courses.</p>
<p>Friday, December 4 and Monday, December 7 Extended Fall term dates for Science and Applied Health Science course labs; at the discretion of the instructor.</p>	<p>TBA Spring Open House</p>
<p>Tuesday, December 8 Reading day. A snow day may be used to cover classes missed because of adverse weather (if needed). The day of the week missed will determine the replacement schedule for classes.</p>	<p>Monday, March 15 to Friday, March 19 Spring break (elementary and secondary schools). No classes will be held in the Teacher Education Program.</p>
<p>Wednesday, December 9 to Tuesday, December 22 Progress examinations for duration 1 courses and final examinations for duration 2 courses.</p>	<p>Friday, April 2 Good Friday. University closed (no classes); library open.</p>
<p>Wednesday, December 23 noon until noon Sunday, January 10 Residences are closed. *NOTE: According to the Residence Agreement, students must leave residence by noon the day following their last exam in December and in April.</p>	<p>Monday, April 12 Make-up day for Family Day (duration 1 and duration 3 classes). The schedule will be that of a Monday.</p>
<p>Friday, December 24 at 12:00 noon until regular University opening on Monday, January 4, 2010 at 8:30 am Christmas and New Year holiday. University closed.</p> <p>Depending on operational needs, there may be limited service available during this time. Please check our website at www.brocku.ca for a list of openings and hours.</p>	<p>Tuesday, April 13 Last day of lectures for durations 1 and 3 courses. Make-up day for Good Friday (duration 1 and duration 3 classes). The schedule will be that of a Friday.</p>
<p>WINTER 2010</p>	<p>Wednesday, April 14 Reading day. A snow day may be used to cover classes missed because of adverse weather (if needed). The day of the week missed will determine the replacement schedule for classes.</p>
<p>Monday, January 4 University reopens.</p>	<p>Thursday, April 15 to Tuesday, April 27 Final examinations for duration 1 and duration 3 courses.</p> <p>*NOTE: According to the Residence Agreement, students must leave residence by noon the day following their last exam in December and in April.</p>
<p>Monday, January 11 First day of Winter Term, Undergraduate programs.</p>	

Admissions

For inquiries:

Telephone 905-688-5550, extension 4068

Fax: 905-988-5488

E-mail: admissns@brocku.ca

www.brocku.ca/registrar

All prospective students are encouraged to apply and will be considered on the basis of evidence of probable success in their chosen program. Enrolment has been limited in order that our students may continue to benefit from the University's traditions of personal contact and individual attention. Applicants must be formally admitted to the University before they can register in degree credit courses.

I. Policy Statement

Brock has had and will continue to have, a racially non-discriminatory policy and therefore does not discriminate against applicants and students on the basis of race, colour or national or ethnic origin. Such a non-discriminatory policy applies to staff and extends to non-discrimination on grounds of creed or sex.

It is the policy of Brock University that all students must therefore sign a declaration on their application for admission and on their confirmation of registration attesting to their citizenship. Each student should be aware that documentation of citizenship may be required and that a penalty for a false statement is deregistration. In addition, any changes in status, e.g., from visa student to permanent resident or Canadian citizen, requires proof of the new status with appropriate document(s).

II. Accessibility Admissions Policy

In order to give special consideration to applicants from specified groups, a number of spaces are provided for persons in the categories that follow. Eligible persons must be Canadian citizens or permanent residents and may apply to the first year of an undergraduate program from a secondary school or community college or to the one-year teacher education program.

A first year undergraduate applicant who has achieved the minimum acceptable average for admission to the University, but who does not have the required average for his/her chosen program, may apply for consideration as a

special student under the categories shown below.

A teacher education applicant, who has met the minimum admissions requirements, including the completion of a bachelor's degree acceptable to Brock University, but who does not meet the higher admission standard established for the year of application, may apply for consideration under one or more of the following categories shown below.

This policy applies if:

- the applicant is of Aboriginal ancestry
- the applicant is a member of a visible minority
- the applicant is challenged by a disability

Applications are reviewed on an individual basis and interviews may be required. The Senate Student Affairs Committee may restrict the number of courses for which an applicant may register and may require that a certain average be required. Once this admission requirement has been satisfied, the student may register as a full-time student.

Students admitted under this policy and who have met initial admission requirements will then be required to meet the same standards for progression and graduation as other students.

Students with specific questions about this policy are encouraged to contact the Office of the Registrar, Admissions.

III. Application Deadline

Fall Entry

Application for admission should be made as early as possible. Application forms must be received by June 1 for full-time studies and August 1 for part-time studies to ensure consideration for September registration. The deadline is April 1 for those International applicants intending on studying on a Study Permit, the deadline is April 1. Students applying after this date, who are subsequently admitted, may be required to register late and pay the late registration fee.

Concurrent Education applicants must submit a Profile Questionnaire as part of the application package. Submission dates are posted at:

www.brocku.ca/registrar/admissions/ under 'Important Application Deadlines', as well as on the Ontario Universities' Application Centre (OUAC) application.

Winter/Spring Entry

A student may begin first-year studies on a part-time basis in the Winter Term beginning in January. However, the number and types of courses available are limited. Applications for part-time study can be accessed at www.brocku.ca/registrar/forms/

IV. Application Procedures: Degree - Undergraduate Studies

For additional details on how to apply, refer to www.brocku.ca/registrar/admissions

A. Ontario Secondary School Applicants

OUAC 101 application forms are available online at www.ouac.on.ca or at secondary school guidance offices. The completed form and interim grades are to be sent to the Ontario Universities' Application Centre. Applicants who wish to be considered on final marks should forward a copy of their final grades directly to Brock University. For further details refer to www.brocku.ca/registrar/admissions/

B. All Other Full-time Applicants

OUAC 105 application forms are available online at www.ouac.on.ca for previous secondary school matriculants, homeschooled, university or college transfer, out-of-province and international students. For further details refer to www.brocku.ca/registrar/admissions/

C. Second or Subsequent Undergraduate Degree Applicants

Non-Brock applicants use the OUAC 105 form for full-time admission. For Part-time studies it can be assessed at www.brocku.ca/registrar/forms. Brock graduates requesting admission to a subsequent undergraduate degree program must complete an internal application form available at www.brocku.ca/registrar/forms/

D. Part-time Degree, Mature and Certificate Applicants

Part-time degree applicants, mature applicants, as well as those seeking admission to certificate programs should refer to www.brocku.ca/registrar/admissions/ for application information.

E. Readmission of Former Brock Student Applicants

Former Brock students seeking readmission after having attended another postsecondary institution in the interim must complete the *Brock Application for Readmission* form available at www.brocku.ca/registrar/forms/, and forward official transcripts of all postsecondary institutions attended for readmission consideration and possible transfer of credit.

E. Senior Citizen Applicants

Senior citizens (60 years of age or more) are encouraged to apply for admission to full-time or part-time studies as either credit or auditing students.

V. Application Procedures: Non-Degree- Undergraduate Studies

A. Post-Degree Applicants

Post-degree students are defined as those applicants with degrees who are taking courses to qualify for further study or for personal interest. Students will normally be limited to part-time studies except where departmental/centre approval has been received to do qualifying work for admission to a Masters or Honours program at Brock. Applicants should apply using a part-time application available at www.brocku.ca/registrar/forms/

B. Letter of Permission Applicants

Those authorized by their home universities to take courses at Brock. Applicants should apply using a part-time application available at www.brocku.ca/registrar/forms/

C. Special Admission Applicants

A special student is one whose course load has been restricted because of the student's academic standing. Such students would normally be permitted to register in a maximum of two credits per academic session.

VI. Application Procedures: Other Programs

A. Faculty of Education

Applicants apply using the OUAC TEAS205 application (www.ouac.on.ca). For information on admission requirements and procedures for the various programs, see the Faculty of Education Calendar entry. For detailed information refer to www.brocku.ca/registrar/admissions/.

B. Graduate Studies

For information on the admission requirements for graduate degree programs, see the Graduate Studies Calendar available at www.brocku.ca/registrar/calendars/
An undergraduate degree acceptable to Brock, normally an honours degree in the appropriate field, is the minimum requirement.

VII. Admission to Undergraduate Degree Studies

A. Ontario Grade 12 U/M

Ontario secondary school students must present the Ontario Secondary School Diploma (OSSD). An overall average of 70 percent on six Grade 12 U or M courses is the minimum required for consideration, but a higher average will be required for most programs since the number of qualified applicants normally exceeds the spaces available.

Secondary school students are encouraged to achieve as much breadth of preparation as possible in the course of their studies leading to the OSSD, while also meeting the stated admission requirements of the University program to which they intend to apply.

Applicants admitted to a Bachelor of Arts or a Bachelor of Science degree program will be offered entry into an Honours program, where applicable.

B. Canadian Provinces

Alberta, Northwest Territories, Nunavut

High-school diploma with five academic courses including program-specific prerequisite courses numbered 30 or 31.

British Columbia, Yukon

High-school diploma with four approved examinable Grade 12 courses. Prerequisites must be included among the approved examinable courses.

Manitoba

High-school diploma with five academic courses that cover three different subject areas, including program-specific prerequisites at the Senior 4 Level.

New Brunswick

High-school diploma with six academic courses, including program-specific prerequisites at the Grade 12 (120, 121 or 122) level.

Newfoundland/Labrador

High-school diploma with eleven credits at the 3000 level including program-specific prerequisites.

Nova Scotia

High-school diploma with five academic university preparatory courses, including program-specific prerequisites at the Grade 12 level.

Prince Edward Island

High-school diploma with five academic courses, including program-specific prerequisites at the Grade 12 (621 or 611) level.

Quebec

Grade 12 Certificate of Graduation with six academic (university-preparation level) courses, including program-specific prerequisites with high standing; OR

One year of CEGEP with a minimum of 12 academic courses. Those applicants with completion of two or three years of CEGEP with high standing may be considered for transfer credit to a maximum of five year-one credits.

Saskatchewan

High-school diploma with five academic courses, including program-specific prerequisites at the Grade 12 (30) level.

C. Caribbean Territories

Applicants will be considered for admission with completion of the Caribbean Secondary Education Certificate (CSEC) as well as Caribbean Advanced Proficiency Examinations (CAPE) results. Applicants with passes in five subjects at the CSEC-Level (minimum grade 3), of which at least two subjects are completed to the CAPE Advanced Unit 2-Level (minimum grade 4) will be considered. Alternatively, one CSEC-Level subject (minimum grade 3) and four Unit 1-Level subjects (minimum grade 4) will be considered as long as the Unit 1-Level subjects do not duplicate the subject matter at the CSEC-Level. Prerequisite subjects required for entry to a specific degree program must be completed to Unit 1-Level with grades of no less than 4.

In consultation with the appropriate academic department, the Office of the Registrar will consider transfer credit for those Unit 2-Level courses passed with a grade of '3' or better to a maximum of 3.0 credits.

D. East and West Africa and Hong Kong

The General Certificate of Education with passes in five subjects, of which at least two must be from distinct areas at the Advanced Level, or passes in four subjects, of which at least three must be from distinct areas at the Advanced Level.

In consultation with the appropriate academic department, the Office of the Registrar will consider transfer credit for those Advanced Level courses passed with a grade of 'C' or better to a maximum of 3 credits.

For those applicants completing the British curriculum, refer to 'United Kingdom' requirements.

E. India, Pakistan and Bangladesh

Applicants are considered for admission on the basis of grade 12 secondary school examination results with Division 1 or "A" standing.

F. United Kingdom

Applicants will be considered for admission with the completion of 5 GCE/GCSE/IGCSE subjects with at least 2 at A-Level (GCSE grades at C or above). One GCSE/IGCSE/O-Level subject (grade C or above) and 4 AS-Level subjects will be considered provided the AS-levels do not duplicate subject matter at the GCSE/IGCSE or O-Level.

In consultation with the appropriate academic department, the Office of the Registrar will consider transfer credit for those A-Level courses passed with a grade of 'C' or better to a maximum of 3 credits. Transfer credit will not be considered for courses completed to AS-Level.

Brock University will also consider applicants with VCE A-Level, VCE A-Level Double Award and BTEC Certificate/Diploma qualifications.

G. United States

Grade 12 diploma with high grades in academic subjects. Brock University welcomes applications from students completing an International Baccalaureate (IB) Diploma program or Advanced Placement courses. The following are helpful in determining eligibility:

- For borderline cases, SAT scores.
- School profiles (if available).
- Letters of recommendation from counselors or teachers.

H. Other Countries

Applicants from areas other than those noted above will be evaluated on an individual basis.

VIII. Other Categories for Admission to Undergraduate Degree Studies

A. Advanced Placement (AP)

Advanced Placement courses may be used to determine admissibility and also granting of transfer credit or exemption.

Applicants who have completed Advanced Placement courses with a minimum grade of "4" may be eligible to receive university credit to a maximum of 2.0 Brock credits. An official AP transcript is required as part of the evaluation process.

B. Homeschooling

Category A

Preference is given to home schooled applicants who, after the eleventh year of homeschooling, complete the final year of secondary studies in an Ontario Ministry of Education inspected school, and present six 4U or 4M Ontario Grade 12 advanced level credits, as well as evidence of 40 hours of community service. Canadian out-of-province applicants with equivalent preparation in the home province will be given equal consideration.

Category B

Home schooled applicants who do not fall into the above category will be reviewed on a case-by-case basis. Normally, admission is limited to Humanities General Studies, Social Sciences General Studies or Sciences General Studies. Upon successful completion of first-year studies at Brock University, applicants may apply to declare a specific major.

Applicants should refer to www.brock.ca/registrar/admissions/ to access the *Homeschooled Applicant Profile*.

C. International Baccalaureate

Applicants who have successfully completed the IB Diploma with the appropriate prerequisite subjects will be considered for admission and may be awarded a maximum of 3.0 transfer credits for HL examinations completed at a minimum grade of 5.

Applicants, who successfully complete an IB Certificate program with a minimum of six subjects including prerequisites, may also be considered for admission and transfer credit.

D. Mature

Those who are not eligible for admission in any other admissions category, who have been out of school for at least two years and who are at least 21 years old, may be considered for admission as mature applicants.

Mature applicants selected for admission are normally limited to part-time study initially. They must achieve a minimum 60 percent overall average on their first 2.0 (full or equivalent) credits. Otherwise they will be placed on academic probation and be required to pass all and to achieve a 60 percent average on the courses taken, while proceeding on a part-time basis.

In support of the application, students will be asked to submit official copies of all pertinent academic records. In addition, students may be asked to submit a letter outlining:

- career ambitions;
- work experiences;

iii) why they may be successful at university;

An interview may also be required.

Mature student admission is only applicable to Canadian citizens and permanent residents.

E. Second or Subsequent Undergraduate Degrees

Non-Brock applicants use the OUAC 105 form. Brock graduates requesting admission to a subsequent undergraduate degree program must complete an internal application form available at the Office of the Registrar at <http://www.brocku.ca/registrar/forms/>.

A university graduate must have completed the requirements for a first degree and normally offer the equivalent of a minimum 65 percent overall average with a higher average being required where enrolments are limited.

Students admitted to a 15 credit degree program will be granted advanced standing to a maximum of seven credits from the first degree. Students admitted to a 20 credit degree program will be granted advanced standing to a maximum of 10 credits from the first degree.

Applicants should be familiar with second undergraduate degree requirements. For further information, see the "Academic Regulations" section of the calendar.

F. Brock Students Who Were Required to Withdraw

A request for readmission shall be addressed to the Director, Admissions for referral to the Senate Student Appeals Board.

G. Concurrent Secondary School University Enrolment

Students enrolled in less than a full-time load of Ontario Grade 12 U or M courses, may be permitted to register concurrently for one credit, subject to the following provisions.

The student must be registered in a sufficient number of Grade 12 U or M courses to complete requirements for an Ontario Secondary School Diploma (OSSD), which meets normal university requirements.

They must have at least a 75 percent standing in the previous high school year in an advanced level program, be recommended by their school and be approved by the Brock department concerned.

Credit will be granted upon successful completion of the course and fulfillment of Brock's admission requirements.

Students registering for a course under the auspices of this admission category will have tuition fees for the course waived.

Consideration under this regulation may also be given to students formally approved through the Brock Mentorship Program, Faculty of Mathematics and Science.

IX. Transfer to Undergraduate Degree Studies

A. Canadian Universities

Applicants wishing to transfer to Brock from degree programs at other Canadian universities must be in good academic standing and normally offer the equivalent of a minimum 60 percent overall average. Admission is not guaranteed by attainment of the minimum requirements as some programs require higher averages. Applicants must also be eligible to re-register at their previous institution.

Normally, transfer credit will be granted only for courses passed which are appropriate to the chosen program. Transfer averages at the previous university will be recorded on the transfer students' records to place those students on an equal basis with those who take their entire undergraduate program at Brock. The grades from other universities whose grading schemes differ from that of Brock University will be translated into equivalent Brock grades and admissibility and transfer credit assessed in these terms. Evaluation of all possible transfer credits available at the time of admission must be completed within one year of the date of admission to the University.

B. Colleges of Applied Arts and Technology
Graduates of a three-year diploma program with a cumulative average of 70 percent, or an average of 70 percent in the last two semesters of a three-year diploma program, will be considered for admission, and may be awarded up to five credits. In some cases, where programs at the college and Brock are quite compatible, up to seven and a half credits may be awarded with the approval of the department.

Applicants who have completed two years of a three-year diploma program or graduates of a two-year program with a cumulative average of 70 percent will be considered for admission and may be awarded up to three credits. In cases where the programs at the college and Brock are quite compatible, up to 5 credits may be awarded with the approval of the department.

The awarding of transfer credit is based primarily upon:

- i) the compatibility of the previous college program with the Brock program;
- ii) course content;
- iii) grades achieved in courses.

Applicants, who have completed one year of a college program, may be considered for admission to first year with no transfer credits provided that an average of 75 percent has been achieved and the program is of an academic nature.

Grades from colleges will be translated into equivalent Brock University grades and admissibility and transfer credit assessed in these terms. Admission is not guaranteed by attainment of the minimum requirements as some programs require higher averages.

C. Bible Colleges

Applicants who have completed a degree program at a bible college accredited by the Association for Biblical Higher Education (ABHE) will be considered for admission and may receive up to five transfer credits.

D. CA, CGA, CMA

Individuals with CA, CGA, CMA designations may be granted up to five transfer credits, provided a minimum grade of 70 percent is achieved.

X. Proof of Proficiency in English

A. Undergraduate Degree

Undergraduate applicants whose first language is not English must provide evidence of proficiency in English as demonstrated through one of the following:

- TOEFL IBT (Internet-based Test of English as a Foreign Language), TOEFL PBT (Paper-based Test of English as a Foreign Language), TOEFL CBT (Computer-based Test of English as a Foreign Language), MELAB (Michigan English Language Assessment Battery), IELTS (International Language Testing System), or ITELP (International Test of English Language Proficiency) scores. Normally, only those with TOEFL IBT scores of 88 or greater, with a minimum of 21 on Speaking and 21 on Writing; TOEFL PBT scores of 580 or greater, with a minimum TWE score of 4.5; TOEFL CBT scores of 237 or greater, with a minimum of 4.5 on the Essay Rating score; MELAB scores of 85 or greater, with no other part under 80; ITELP scores of 565 or greater with a minimum composition score of 240; and IELTS scores of

7.0 or greater, with no band below 6.5 will be considered for admission.

- Achievement of an Overall Band Score of 70, with 60 in writing, with no other band score under 60 on the Canadian Academic English Language Assessment (CAEL), or completion of the York English Language Test (YELT) with an overall category of 1 or 2;

- Completion of the International Baccalaureate diploma where English was the language of instruction;

- A minimum of three years of full-time study, in an English language school system (where the primary language of instruction and evaluation was English) with acceptable grades in English and other humanities/social science courses from their secondary school year;

- Successful completion of Level 5 of the Brock Intensive English Language Program. Students from the Intensive English Language Program entering on the recommendation of the Director of ESL Services may be required to enroll in AESL 1P90 and 1P91 in year one along with a maximum of four other credits.

B. Pre-Service Consecutive Teacher Education

All applicants to the consecutive Bachelor of Education Pre-Service Teacher Education program whose first language is not English must provide evidence of proficiency in English. Schooling in an English language environment does not exempt applicants from this requirement. Proficiency may be as demonstrated through one of the following:

- TOEFL IBT (Internet-based Test of English as a Foreign Language) with a minimum score of 100, including a minimum of 27 on Writing and 27 on Speaking;

- TOEFL PBT (Paper-based Test of English as a Foreign Language) with a minimum score of 600, including a minimum of 5.5 on the TWE (Test of Written English);

- TOEFL CBT (Computer-based Test of English as a Foreign Language) with a minimum score of 250, including a minimum of 5.5 on the Essay Rating score;

- ITELP (International Test of English Language Proficiency) with a minimum score of 580, and a minimum composition score of 260;

- IELTS (International English Language Testing System) with a minimum score of 7.0;

- MELAB (Michigan English Language Assessment Battery) with a minimum score of 90, and a minimum composition score of 83.

C. TESL Certificate

All applicants to the post-graduate TESL – Teaching English as a Second Language Certificate program whose first language is not English must provide evidence of proficiency in English as demonstrated through one of the following:

- TOEFL IBT (Internet-based Test of English as a Foreign Language) with a minimum score of 100, including a minimum of 27 on Writing and 27 on Speaking;
- TOEFL PBT (Paper-based Test of English as a Foreign Language) with a minimum score of 600, including a minimum of 5.5 on the TWE (Test of Written English), as well as a 60 on the TSE (Test of Spoken English);
- TOEFL CBT (Computer-based Test of English as a Foreign Language) with a minimum score of 250, including a minimum of 5.5 on the Essay Rating score, as well as a 60 on the TSE (Test of Spoken English);
- ITELP (International Test of English Language Proficiency) with a minimum score of 580, with a minimum composition score of 260.
- IELTS (International English Language Testing System) with a minimum overall band score of 7.0, with no less than 7 on any other band;
- MELAB (Michigan English Language Assessment Battery) with a minimum overall score of 90, and a minimum score of 83 on composition.

XI. International Student Immigration Requirements

Students entering Canada from other countries are required to comply with Canadian immigration requirements. Student Study Permits are issued abroad by Canadian diplomatic, consular or immigration officers. Where there is no Canadian representative, prospective students may apply to representatives of the British government. An original letter of acceptance from Brock University must be presented at that time.

Registration in co-operative programs is available only to students eligible for employment in Canada in their chosen field.

A pamphlet outlining immigration requirements is available from Canadian immigration officers, Canadian embassies, consulates, high commissioners' offices, and British consular offices or directly from the Immigration Division, Citizenship and Immigration department, Ottawa, Ontario, Canada.

International Student Deposit

International students granted an Offer of Admission are normally required to confirm acceptance with a monetary deposit. Notification of this requirement is included in the Offer of Admission.

XII. Applicant Responsibilities

Unless otherwise indicated, it is the responsibility of applicants to ensure that all pertinent academic documentation is forwarded directly to the Office of the Registrar from institutions previously attended, such as secondary schools, colleges and universities. Proof of name change (marriage certificate, notarized statement or other legal document) must be provided if academic documents show a name other than that under which application is made. Evidence of proficiency in English must be provided if English is the applicant's second language.

Applicants withholding, misrepresenting or failing to provide information regarding previous university or college records are liable to have their admission revoked and registration cancelled.

Admissions Criteria

Fall 2010 Entry

Ontario secondary school students must have a minimum of six 4U or 4M courses and have completed the OSSD to be considered for admission. Prerequisite courses are used in the calculation of admission averages.

*For programs that require EITHER Advanced Functions (MHF4U) or Calculus and Vectors (MCV4U) with a specified minimum average requirement: Brock University will use the better of the two mathematics grades to calculate an admission average (in cases where an applicant expects to complete more than six 4U or 4M credits).

OUAC Code and Program Name

Faculty of Applied Health Sciences

BHL Honours Child Health BA

Required 4U Subjects: English (ENG4U), Biology (SBI4U).
Strongly recommended subject: one 3U math.

BPI Concurrent Bachelor of Physical Education Honours/Bachelor of Education, Intermediate-Senior (Profile Questionnaire required no later than January 22, 2010)

Required 4U Subjects: English (ENG4U), Biology (SBI4U), Exercise Science (PSE4U), one 4U math.

BPJ Concurrent Bachelor of Physical Education Honours/Bachelor of Education, Junior-Intermediate (Profile Questionnaire required no later than January 22, 2010)

Required 4U Subjects: English (ENG4U), Biology (SBI4U), Exercise Science (PSE4U), one 4U math.

BAH Community Health BA

Required 4U Subjects: English (ENG4U), one of Biology (SBI4U) or Chemistry (SCH4U).
Strongly recommended subjects: 12M Science (SNC4M) or Exercise Science (PSE4U) or one 3U math.

BSH Honours Health Sciences BSc

Required 4U Subjects: English (ENG4U), Biology (SBI4U), Chemistry (SCH4U) (min. 70%), one 4U math (MDM4U preferred).
Strongly recommended subject: Exercise Science (PSE4U).

BPK Honours Kinesiology BKin

Required 4U Subjects: English (ENG4U), Biology (SBI4U), Exercise Science (PSE4U), one 4U math.

BSK Honours Kinesiology BSc

Required 4U Subjects: English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min. 70%), Biology (SBI4U), Chemistry (SCH4U) (min. 70%).
Strongly recommended subject: Physics (SPH4U), Exercise Science (PSE4U).

BSN Honours Nursing BScN

Required 4U Subjects: English (ENG4U) (min.70%), Biology (SBI4U) (min.70%), Chemistry (SCH4U) (min.70%).
Strongly recommended subject: One 4U math.

Honours Nursing BScN Collaborative Program with Loyalist College

Required 4U Subjects: English (ENG4U) (min.70%), Biology (SBI4U) (min.70%), Chemistry (SCH4U) (min.70%).
Strongly recommended subject: One 4U math.

BP Honours Physical Education BPhEd

Required 4U Subjects: English (ENG4U), Biology (SBI4U), Exercise Science (PSE4U), one 4U math.

BPU Honours Public Health BA

Required 4U Subjects: English (ENG4U), one of Biology (SBI4U) or Chemistry (SCH4U).
Strongly recommended subjects: 12M Science (SNC4M) or Exercise Science (PSE4U), one 3U math.

BW Honours Recreation and Leisure Studies BRLS

Required 4U Subject: English (ENG4U).

BSM Honours Sport Management BSM
Required 4U Subject: English (ENG4U).

Faculty of Business

BK Honours Accounting BAcc, Honours Accounting BAcc Co-op
Required 4U Subjects: English (ENG4U), two 4U maths.

BN Honours Business Administration BBA, Honours Business Administration BBA Co-op
Required 4U Subjects: English (ENG4U), two 4U maths.

Faculty of Education

BII Concurrent Bachelor of Science Honours/Bachelor of Education, Intermediate-Senior
Students admitted directly from secondary school. Majors in Biological Sciences, Chemistry, Computer Science, Physical Geography, Mathematics and Physics.

Biological Sciences, Chemistry, Physics Majors:

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min. 70%), one from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math. Strongly recommended subjects: Chemistry major - a second 4U math; Physics major - Physics (SPH4U). For teaching at the Intermediate/Senior level (grades 7-12). Profile Questionnaire required by January 22, 2010.

Computer Science majors

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%). Strongly recommended subject: ICS4M. For teaching at the Intermediate/Senior level (grades 7-12). Profile Questionnaire required by January 22, 2010.

Mathematics majors:

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%), and Calculus and Vectors (MCV4U)* (min.70%). For teaching at the Intermediate/Senior level (grades 7-12). Profile Questionnaire required by January 22, 2010.

Physical Geography majors:

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), one from Biology (SBI4U), Physics (SPH4U), Chemistry (SCH4U), or Earth and Space Science (SES4U). Strongly recommended: Chemistry (SCH4U) (min. 70%). For teaching at the Intermediate/Senior level (grades 7-12). Profile Questionnaire required by January 22, 2010.

BAI Concurrent Bachelor of Arts Honours/ Bachelor of Education, Intermediate-Senior

Students admitted directly from secondary school. Majors in Dramatic Arts, English, French, Geography, History and Visual Arts.

Required 4U Subject(s): English (ENG4U), one 4U math.

French majors: English (ENG4U), one 4U math, and one of FSF4U, FEF4U or FIF4U.

For teaching at the Intermediate/Senior level (grades 7-12). Profile Questionnaire required by January 22, 2010.

BPI Concurrent Bachelor of Physical Education Honours/Bachelor of Education, Intermediate-Senior

Students admitted directly from secondary school. Required 4U Subjects: English (ENG4U), Biology (SBI4U), Exercise Science (PSE4U), one 4U math.

For teaching at the Intermediate/Senior level (grades 7-12). Profile Questionnaire required by January 22, 2010.

BIJ Concurrent Bachelor of Science Integrated Studies Honours/Bachelor of Education, Junior-Intermediate

Students admitted directly from secondary school. Teachable subjects include Geography, Mathematics and General Science.

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%).

Applicants should consider additional prerequisite requirements for intended teachable subjects.

For teaching at the Junior/Intermediate level (grades 4-10). Profile Questionnaire required by January 22, 2010.

BAJ Concurrent Bachelor of Arts Integrated Studies Honours/Bachelor of Education, Junior-Intermediate

Students admitted directly from secondary school. Teachable subjects include Dramatic Arts, English, French, Geography, History, Mathematics, Music-Vocal, Physical and Health Education, Science-General, Visual Arts.

Required 4U Subject(s): English (ENG4U), one 4U math.
For teaching at the Junior/Intermediate level (grades 4-10). Profile Questionnaire required by January 22, 2010.

BPJ Concurrent Bachelor of Physical Education Honours/Bachelor of Education, Junior-Intermediate
Students admitted directly from secondary school.
Required 4U Subjects: English (ENG4U), Biology (SBI4U), Exercise Science (PSE4U), one 4U math.
For teaching at the Junior-Intermediate level (grades 4-10). Profile Questionnaire required by January 22, 2010.

BDP Concurrent Bachelor of Arts Child and Youth Studies Honours/Bachelor of Education, Primary-Junior
Students admitted directly from secondary school.
Required 4U Subject(s): English (ENG4U), one 4U math (Mathematics of Data Management - MDM4U preferred).
For teaching at the Primary-Junior level (grades K-6). Profile Questionnaire required by January 22, 2010.

Faculty of Humanities

BAL Honours or Pass Applied Linguistics BA
Required 4U Subject: English (ENG4U).
Strongly recommended subjects for majors in Hearing Sciences or Speech and Language Sciences: Two from Biology (SBI4U), Chemistry (SCH4U), Physics (SPH4U), Mathematics of Data Management (MDM4U).
Strongly recommended subjects for majors in Applied Linguistics or TESL: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BL Honours Canadian Studies BA
Required 4U Subject: English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BQ Honours Classics BA
Required 4U Subjects: English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BAI Concurrent Bachelor of Arts Honours/ Bachelor of Education, Intermediate-Senior (Profile Questionnaire required no later than January 22, 2010)
Required 4U Subject(s): English (ENG4U), one 4U math.
French majors: English (ENG4U), one 4U math, and one of FSF4U, FEF4U or FIF4U.

BAJ Concurrent Bachelor of Arts Integrated Studies Honours/Bachelor of Education, Junior-Intermediate (Profile Questionnaire required no later than January 22, 2010)
Required 4U Subject(s): English (ENG4U), one 4U math.

BT Honours Dramatic Arts BA, Honours Dramatic Arts BA Co-op
Required 4U Subject: English (ENG4U).
Strongly recommended subject: ADA4M.

BEN Honours English Language and Literature BA
Required 4U Subject: English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BZ Honours Great Books/Liberal Studies BA
Required 4U Subjects English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BHI Honours History BA
Required 4U Subject: English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BHU Humanities General Studies BA
Required 4U Subject: English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BIS Honours Interactive Arts and Science
Required 4U Subject: English (ENG4U).
Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BMR Honours Medieval and Renaissance Studies BA

Required 4U Subject: English (ENG4U).

Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BLA Honours Modern Languages BA (French, Italian, Spanish)

Required 4U Subject: English (ENG4U).

Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BM Honours Music BA

Required 4U Subject(s): English (ENG4U). Theory placement test (Royal Conservatory Grade II level) and aural skills test must be passed.

Audition required for Applied Music.

Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BPH Honours Philosophy BA

Required 4U Subject: English (ENG4U).

Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BAC Honours Studies in Arts and Culture BA

Required 4U Subject: English (ENG4U).

Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

BR Honours Visual Arts BA

Required 4U Subject: English (ENG4U).

Strongly recommended subjects: One from 4U history, 4U philosophy, 4U classical studies, or 4U international language.

Faculty of Mathematics and Science**BCH Honours Biochemistry BSc, Honours Biochemistry BSc Co-op**

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subjects: English (ENG4U), a second 4U math.

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BS Honours Biological Sciences BSc

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BIM Honours Biomedical Sciences BSc

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BBP Honours Biophysics BSc

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subjects: English (ENG4U), Physics (SPH4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BIT Honours Biotechnology BSc, Honours Biotechnology BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BTB Honours Biotechnology with Introductory Business BSc

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry prior to enrolling in CHEM 1F92.

BJC Honours Chemistry BSc, Honours Chemistry BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subjects: English (ENG4U), a second 4U math.

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BX Honours Earth Sciences BSc, Honours Earth Sciences BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BEG Honours Environmental Geoscience BSc, Honours Environmental Geoscience BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BIN Honours Neuroscience BSc, Honours Neuroscience BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subject: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BOV Honours Oenology and Viticulture BSc (Co-op only)

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subjects: English (ENG4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BJP Honours Physics BSc, Honours Physics BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min.70%), two from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math or English (ENG4U).

Strongly recommended subjects: English (ENG4U), Physics (SPH4U).

Applicants with 65-69% in Chemistry (SCH4U) will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1F92.

BG Honours Computer Science BSc, Honours Computer Science BSc Co-op

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%).

Strongly recommended subject: Computer and Information Sciences (ICS4M).

BHG Computer Science and Mathematics BSc (Co-op only)

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.75%), Calculus and Vectors (MCV4U)* (min.75%).

Strongly recommended subject: Computer and Information Sciences (ICS4M).

BCB Honours Computing and Business BCB, Honours Computing and Business BCB Co-op

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U), a second 4U math (min. 75% between two math).

Strongly recommended subject: Computer and Information Sciences (ICS4M).

BGN Honours Computing and Network Communications BSc (Co-op only)

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min. 70%).
Strongly recommended subject: Computer and Information Sciences (ICS4M).

BSC Honours Computing and Solid State Device Technology BSc, Honours Computing and Solid State Device Technology BSc Co-op

Required 4U Subject(s): English (ENG4U), Physics (SPH4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min. 70%)

BII Concurrent Bachelor of Science Honours/Bachelor of Education, Intermediate-Senior (Profile Questionnaire required no later than January 22, 2010)

Biological Sciences, Chemistry, Physics Majors:

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), Chemistry (SCH4U) (min. 70%), one from Biology (SBI4U), Physics (SPH4U), Earth and Space Science (SES4U), a second 4U math.
Strongly recommended subjects: Chemistry major - a second 4U math; Physics major - Physics (SPH4U).

Computer Science majors

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%).
Strongly recommended subject: 1CS4M.

Mathematics majors:

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%), and Calculus and Vectors (MCV4U)* (min.70%).

Physical Geography majors:

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%), one from Biology (SBI4U), Physics (SPH4U), Chemistry (SCH4U), or Earth and Space Science (SES4U).
Strongly recommended: Chemistry (SCH4U) (min. 70%).

BIJ Concurrent Bachelor of Science Integrated Studies Honours/Bachelor of Education, Junior-Intermediate (Profile Questionnaire required no later than January 22, 2010)

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min.70%).
Applicants should consider additional prerequisite requirements for intended teachable subjects.

BH Honours Mathematics BSc (MICA)

Required 4U Subject(s): Advanced Functions (MHF4U), Calculus and Vectors (MCV4U)* (min. 75% in each math).
Strongly recommended subject: English (ENG4U).

BO Honours Physical Geography BSc, Honours Physical Geography BSc Co-op

Required 4U Subject(s): Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min. 70%), one from Biology (SBI4U), Physics (SPH4U), Chemistry (SCH4U), or Earth and Space Science (SES4U).
Strongly recommended subject: English (ENG4U).

BI Honours Science - General Studies BSc

Required 4U Subject(s): Chemistry (SCH4U) (min. 70%), Advanced Functions (MHF4U) (min.70%) or Calculus and Vectors (MCV4U)* (min. 70%).
Strongly recommended subject: English (ENG4U).

Faculty of Social Sciences

BE Honours Business Economics BBE, Honours Business Economics BBE Co-op

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min. 65%) or Calculus and Vectors (MCV4U)* (min. 65%).

BD Honours Child and Youth Studies BA

Required 4U Subject: English (ENG4U).
Strongly recommended subject: One 4U math (MDM4U preferred).

BU Honours Communication Studies BA

Required 4U Subject: English (ENG4U).

BDP Concurrent Bachelor of Arts Child and Youth Studies Honours/Bachelor of Education, Primary-Junior (Profile Questionnaire required no later than January 22, 2010)

Required 4U Subject(s): English (ENG4U), one 4U math (Mathematics of Data Management - MDM4U preferred).

BDC Honours Distinct and Diverse Communities

Required 4U Subject: English (ENG4U)

BEC Honours Economics BA, Honours Economics BA Co-op

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.65%) or Calculus and Vectors (MCV4U)* (min. 65%).

BF Honours Film Studies BA

Required 4U Subject: English (ENG4U).

BGE Honours Human Geography BA, Honours Human Geography BA Co-op

Required 4U Subject: English (ENG4U).

BIP Honours International Political Economy BA

Required 4U Subject(s): English (ENG4U), Advanced Functions (MHF4U) (min.65%) or Calculus and Vectors (MCV4U)* (min. 65%)

BLB Honours Labour Studies BA

Required 4U Subject: English (ENG4U).

BPO Honours Political Science BA, Political Science BA Co-op

Required 4U Subject: English (ENG4U).

BPC Honours Popular Culture BA

Required 4U Subject: English (ENG4U).

BPY Honours Psychology BA, Honours Psychology BA Co-op

Required 4U Subject: English (ENG4U).

Strongly recommended subject: One 4U math (MDM4U preferred).

BSS Social Sciences - General Studies BA

Required 4U Subject: English (ENG4U).

BSO Honours Sociology BA

Required 4U Subject: English (ENG4U).

BTV Honours Tourism and Environment BA

Required 4U Subject: English (ENG4U).

BWS Honours Women's Studies BA

Required 4U Subject: English (ENG4U).

Academic Regulations and University Policies

I. Confidentiality and Release of Student Records

A. Protection of Privacy

Brock University, collects and retains student and alumni personal information under the authority of The Brock University Act, 1964. This information is related directly to and needed by the University for the purposes of admission, registration, graduation and other activities related to its programs, being a member of the Brock University community and attending a public post-secondary institution in the Province of Ontario.

The information will be used to admit, register and graduate students, record management achievement, issue student identification cards, and administer and operate academic, athletic, recreational, residences and other University programs.

Information on admission, registration and academic achievement may also be disclosed and used for statistical and research purposes by the University, other post-secondary educational institutions and the provincial government.

Personal information provided for admission and registration and any other information placed into the student record will be collected, protected, used, disclosed and retained in compliance with Ontario's Freedom of Information and Protection of Privacy Act (R.S.O. 1990, c.F31).

B. Student Access

Students may inspect all documents contained in their own record, with the exception of evaluations and letters of reference supplied to the University with the understanding that they be kept confidential.

Students may request that erroneous information contained in their records be corrected and that recipients, of any information found to be in error, be advised of the correction.

Students wishing to inspect their record must make an appointment with an authorized official of the Office of the Registrar.

All official transcripts will be complete and unabridged. Partial transcripts cannot be issued. Transcripts issued directly to students bear the notation "Issued to Student".

Documents pertaining to a student's achievement at another institution, which may have been received by the University, will not normally be released or redirected to another institution.

C. Employee and Student Organization Access

Employees of the University are permitted access to information contained in student records, if they need to know the information in order to perform their official duties. As a general rule, only employees involved in some aspect of academic administration or student affairs are given access to the contents of student records.

In addition to collecting personal information for its own purposes the University collects specific and limited personal information on behalf of the Brock University Students' Union (BUSU), as well as constituent organizations authorized by them. BUSU uses this information for the purposes of membership administration, elections, annual general meetings, transit passes and its health plan. Information is provided by the Office of the Registrar upon written request signed by an authorized officer of BUSU with the understanding that the information will not be disclosed to third parties (and returned to the Office of the Registrar when requested).

D. Third Party Access

It is University policy to make a minimum of information freely available to all inquirers. The University will disclose information about students who have graduated, which is considered to be public information, as follows:

- a) degree(s) obtained and the dates conferred by the University, and in most circumstances,
- b) scholarships and the dates awarded.

Except as specified below other information contained in the record (including current registration status and program of study) will be disclosed only with the student's written consent. This restriction applies to requests from parents, spouses, credit bureaus, police, CSIS and immigration and other Government agencies. Specified records or portions thereof may be provided to persons or agencies pursuant to a court order, summons or subpoena directing the University to release information; to Statistics Canada and the Ministry of Education in connection with enrollment audits; or in accordance with the requirements of duly constituted professional licensing and certification bodies.

In emergency situations involving the health and safety of an individual, or in compassionate situations, the Registrar or

designate may, if it is considered to be in the best interest of the student, authorize the release of information needed to contact the student.

E. Notification of Disclosure of Personal Information to Statistics Canada

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education.

It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrollment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes'. 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, enrollment 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 from being released in any way that would identify a student.

Students who do not wish to have their information used are able to ask Statistics Canada to remove their identification and contact information from the national database.

Further information on the use of this information can be obtained from Statistics' Canada's website: <http://www.statcan.ca> or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, K1A 0T6.

F. Name Changes

As Brock is committed to the integrity of its student records, each student is required to provide, either on application for admission or in personal data required for registration, his/her legal name. Any requests to change a name, by means of alteration or deletion, substitution or addition, must be accompanied by appropriate supporting documentation. Upon making application for graduation a student may be asked to provide proof of his/her name.

G. Transcripts

Copies of student transcripts will be issued at the student's request, subject to reasonable notice. Requests should be submitted in person or by writing to the Office of the Registrar. In accordance with the University's Policy on Access to Student Records, the student's signature is required for the release of records. Transcripts issued directly to the student are stamped "Issued to Student". Partial transcripts cannot be issued. The Office of the Registrar cannot be responsible for transcripts lost or delayed in the mail.

H. Withholding of Degree or Grades

Only the Office of the Registrar may release final grades. No student owing the University fees or fines will receive a diploma, certificate, transcript or a statement of final grades or have any such statements communicated to parties outside the University, until such time as the debts have been cleared to the satisfaction of the University.

II. Registration

A. Applicable Calendar

A student who has maintained enrollment in at least one credit in each calendar year (May to April) may complete the degree program using the "Academic Regulations" section of the Calendar operative in the year in which that program was entered. Students who interrupt their studies for more than one calendar year (by not enrolling in at least one credit), however, become subject to the Calendar regulations in effect at the time of their re-registration.

Students in Bachelors' Degrees are normally expected to complete degree requirements within 10 years of first registration. Students who exceed 10 years may be required to re-take prerequisite courses where the knowledge base in specific disciplines has changed substantially in the intervening period.

B. Registration: General Information

Students must register during the official registration period designated for each session or term. Late registration may be permitted, upon payment of a fee, during the course change period of each session. Registration will not be permitted after the last day to add a course for a term. It is the responsibility of each student to ensure that the courses selected meet the academic degree requirements and adhere to restrictions, course prerequisites, and published deadlines. Students may not enroll in courses which conflict in time without the written approval of each instructor. All courses and programs are subject to enrollment limitations.

To register in courses a student must meet the following conditions:

1. Be admitted to Brock or be a continuing student academically eligible to enroll.
2. Enroll in courses in accordance with the procedures outlined in the University's Registration guides produced by the Office of the Registrar.
3. Pay or make arrangements to pay fees. Students whose cheques are returned with "Non-sufficient funds" will be deregistered and subject to late penalty charges.

C. Course Levels

Courses numbered 1(alpha)00 to 1(alpha)99, 2(alpha)00 to 2(alpha)99, 3(alpha)00 to 3(alpha)99 and 4(alpha)00 to 4(alpha)99 are normally year 1, 2, 3 and 4 courses respectively. Courses numbered 2(alpha)90 to 2(alpha)99 may be considered as year 2 or 3 courses and 3(alpha)90 to 3(alpha)99 as year 3 or 4 courses.

D. Definition of Full- and Part-Time Studies

Full-Time

- a) A student enrolled in three or more credits over the Fall/Winter Session.
- b) A student enrolled in three credits over the Spring and Summer Sessions.

Part-Time

- a) A student enrolled in less than three credits over the Fall/Winter Session.
- b) A student enrolled in less than three credits over the Spring and Summer Sessions.

Full-time students are expected to enroll in five credits (2.5 per term) during the Fall/Winter Session. Students normally enroll in one credit per session during the Spring and the Summer Session. A student wishing to exceed normal course loads must obtain the permission of the Dean of their chosen major. Permission will normally be granted only if a student has completed five credits with at least second-class (70 percent) standing.

Special students, including students on a Letter of Permission and post-degree students, not proceeding towards a Brock degree, are normally restricted to part-time studies.

In some cases it may be necessary for students registered in evening courses to write examinations during the day.

E. Registration in Cross-Listed Courses

The designation for a cross-listed course will be established by the student's initial registration in that course. Students may elect to change the designation no later than the last day for withdrawal without the assignment of a grade.

F. Attendance Requirements

Students are expected to attend all lectures, discussion groups, seminars and laboratory periods of the courses in which they are registered. Instructors must inform students about the relationship between attendance and course grades early in each session.

A student may not enroll in courses which conflict in time without written approval of the instructors involved.

G. Academic Accommodation for Religious Obligations

Brock University acknowledges the pluralistic nature of the undergraduate community such that accommodations will be made for students who, by reason of religious obligation, must miss an examination, test, assignment deadline, laboratory or other compulsory academic event.

Students requesting academic accommodation on the basis of religious obligation should make a formal, written request to their instructor(s) for alternative dates and/or means of satisfying requirements. Such requests should be made during the first two weeks of any given academic term, or as soon as possible after a need for accommodation is known to exist (i.e., posting of the examination schedule), but in no case later than the second-last week of classes in that term.

When a student's presence is required prior to the date on which classes begin, any student who cannot meet this expectation of attendance for reasons of religious obligation should notify the Registrar, in advance.

Accommodation is to be worked out directly and on an individual basis between the student and the instructor(s) involved. Instructors will make accommodation in a way that avoids academic disadvantage to the student. The type of accommodation granted will vary depending on the nature, weight and timing of the work for which accommodation is sought.

In cases regarding academic accommodation of students on the basis of religious obligation, any dispute unresolved by discussion between the student and instructor may be appealed, first to the Department Chair or Director and thereafter to the Dean of the Faculty in which the student is registered. If the student is not satisfied with the decision of the Dean, the student may then appeal to the Student Appeals Board.

A current list of religious observance days is posted at <http://www.brocku.ca/registrar/>

H. Dropping/Withdrawal from Courses

A student may voluntarily withdraw from the University and/or courses without academic penalty by informing the Office of the Registrar, in writing, by the following dates:

SPRING 2009

Duration 1 (begins May 4)

Last day to withdraw from a course without academic penalty is June 26

Duration 2 (begins May 4)

Last day to withdraw from a course without academic penalty is May 29

Duration 3 (begins June 8)

Last day to withdraw from a course without academic penalty is July 3

SUMMER 2009

Duration 1 (begins July 13)

Last day to withdraw from a course without academic penalty is August 7

FALL/WINTER 2009/2010

Duration 1 (begins September 10)

Last day to withdraw from a course without academic penalty is January 22, 2010

Duration 2

Last day to withdraw from a course without academic penalty is November 6, 2009

Duration 3

Last day to withdraw from a course without academic penalty is March 5, 2010

Unofficial withdrawal from a course after the above deadlines will result in the assignment of a failing grade in the course.

In the Fall/Winter session, whenever and wherever reasonably possible, instructors shall normally assess and communicate to students a minimum of 15 percent of their final grade by not later than the week prior to the last date for withdrawal without academic penalty. In cases where, due to the nature of the course, this requirement cannot be met, the instructor shall inform students in the course syllabus.

The week of withdrawal from a course, following the course change period, will be recorded on the student's official transcript.

Grades will be recorded on students' transcripts for all courses in which they have officially registered and from which they have not officially withdrawn.

A student who withdraws in good standing may be entitled to a partial refund of tuition

fees in accordance with the refund schedule established by the Financial Services department.

Students holding any scholarship/bursary, within University control, will, on withdrawing, forfeit the total value of this award.

Students should also note that withdrawal may affect their OSAP assessment. Please ensure that you consult with the Student Awards and Financial Aid office before withdrawing from courses.

I. Audit Status

Students admitted to the university may audit a course provided that space is available. Permission of the instructor is required and may not be granted until after the first day of lectures. No credit or assessment of performance will be given in the course.

A request to change from audit to degree credit status must be received by the Office of the Registrar no later than the last day to add a course (of that duration) in the term. Students must satisfy all academic and prerequisite requirements.

A request to change from degree credit to audit status must be received by the Office of the Registrar no later than the last day to withdraw from a course (of that duration) without penalty. Please consult the information on Withdrawal/Dropping of Courses.

J. Letters of Permission

Brock students wishing to enroll at another university and transfer credits towards a Brock degree must apply for, and be granted, a Letter of Permission from the Office of the Registrar before registering at the other university. A university calendar description of the course(s) to be taken and the Letter of Permission fee of \$35.00 must be submitted, with the application, to the Office of the Registrar. Approved Letters of Permission will be sent to the host university where required and a copy sent to the student.

To ensure sufficient time for the processing of Letters of Permission please submit applications according to the following dates:

Spring/Summer courses - March 15

Fall Courses - August 1

Winter Courses - December 1

Please note the following conditions:

A maximum of five credits may be completed by Letter of Permission.

Course(s) requested should be relevant to a student's degree program and must be approved by both the student's academic Department and Dean of the student's degree program. Approval is at the discretion of the Dean, based on the applicant's overall academic record, the appropriateness of the particular course to the applicant's program and on any other factors deemed relevant.

A Letter of Permission is normally restricted to students who have successfully completed five credits at Brock with a minimum 60 percent overall average. Brock credit will not be granted to students who Challenge for Credit, on Letter of Permission, at the host institution.

A Letter of Permission is not issued for a student to complete more than two of the last five credits of a degree. Note that this regulation does not apply to courses taken as part of an exchange program (Keele, Swansea) nor to students in either the Bachelor of Education in Aboriginal Adult Education or the Bachelor of Education in Adult Education.

Students who do not complete registration at the host university, or who withdraw from course(s) for which a Letter of Permission has been issued, must submit verification from the host university to the Office of the Registrar.

Courses taken on a Letter of Permission or on Exchange Programs will be marked as Pass or Fail and will not be used in determining any student average. The course taken and grade assigned by the host university will, however, appear as a notation on a student's transcript. Courses taken within a designated partnership program with Brock (Freiburg, Summer Studies in Italy) will be used in the determination of a student's average.

It is the student's responsibility to ensure that Brock University receives an official transcript from the host university within eight weeks of the course end date as specified on the application for the Letter of Permission submitted to Brock University or a failing grade will be assigned.

Students completing their last credit(s) towards their degree on a Letter of Permission must have their official transcript from the host university sent to the Registrar by the following dates:

Spring Convocation - May 15

Fall Convocation - September 15

Students not adhering to these deadlines may have their graduation deferred until the next Convocation.

K. Repeating a Course for which a Passing Grade has been Awarded

Students may repeat a course in which they have received a passing grade. With the approval of the Office of the Registrar, under the following conditions and within the degree program for which the course is being taken, the grade awarded for a repeated course will supersede the grade from the first attempt at the course regardless of whether it is higher or lower. Both grades will remain on the student's transcript but the second grade, whether higher or lower, will be used in the computation of the student's average. A student will be permitted to repeat passed courses constituting no more than three credits, but no course may be repeated more than once.

First year courses (numbered 1(*alpha*)00 to 1(*alpha*)99) and courses listed as prerequisites may not be repeated if credit has been received for higher level courses in the same subject.

L. Repeating a Failed Course

A student may repeat a failed course, but no course may be repeated more than once. Both grades will remain on the student's transcript but the second grade will be used in the computation of the student's average.

M. Challenge for Credit

Challenge for credit is designed to provide credit at the undergraduate level for skills acquired through learning and experience outside the University. It is not designed to give credit for skills or knowledge gained through high school, college or previous university instruction, nor is it expected that time would be required to upgrade or review the material prior to the examining process. Credit can only be granted for those courses listed in the current Brock Calendar. Not all courses in all disciplines are available for challenge. It is the responsibility of the Department/Centre concerned to evaluate the student who challenges for credit and to determine the types of work to be submitted.

General regulations

Challenge for credit is available only to students formally admitted to and registered in, a program leading to a degree or certificate. Special admission students are not eligible to challenge for credit.

A maximum of five credits towards a Brock undergraduate degree may be acquired by challenge at Brock. A maximum of one credit may be obtained toward a certificate. Challenges may not be included in the minimum number of Brock credits required for a Brock degree.

A challenge credit may not be used as a substitute for grade raising or special examinations or to replace a failed course.

A student may not challenge a course in which s/he is or has been previously registered or which s/he has already challenged.

The passing grade for a challenge will appear on the transcript as CH. Challenge grades therefore are not computed in averages and are not used in evaluating honours or scholarship standing. Failures (F) will be noted on the transcript.

A student may not withdraw the challenge once registration for a challenge course is completed.

The grade for the challenge must be received in the Office of the Registrar within 60 days of acceptance of the challenge by the Department/Centre.

How to challenge for credit

A student must fill out a challenge application form available from the Office of the Registrar. (The student may wish to discuss the challenge informally with the Department/Centre prior to this step.) The Office of the Registrar forwards the application to the appropriate Department/Centre which must decide whether to accept the challenge. The Department/Centre may require documentary material from the student or an interview before making its decision. If the Department/Centre accepts the challenge, the student is eligible to register for it through the Office of the Registrar and is required to pay the applicable fee. A student may not withdraw the challenge after this step; failure to sit for a challenge subsequent to registration represents a failed course. It is the student's responsibility to be fully informed, prior to registration, of the time and nature of the evaluation. This may include one or more of the following: a written exam paper or papers, an essay or essays, the submission of a substantial body of work or a portfolio, an oral examination or a laboratory test.

III. Degree/Program Policies

A. Selection of Majors

Students should choose an area of major concentration after successful completion of five credits. Normally, a student may major in any subject in which a grade of 60 percent or better was obtained in the required introductory course(s), provided that departmental/centre prerequisites have been met. Department/centre approval is required for any deviation from this policy. Where programs have approved enrollment limits, admission is not guaranteed by attaining minimum requirements. In most departments/centres students must maintain

a minimum 60 percent major average to continue in the discipline. Please ensure that you check with specific program requirements for entrance and progression standards.

In the first five credits students must complete the following:

- Courses from at least four departments/centres.
- At least one of the three required context credits.

For students in Concurrent Education programs, Pre-Service Education courses are credited toward the BEd while the remaining courses are credited to the undergraduate (BA, BSc or BPhEd) degree. For this reason, a student who transfers out of a concurrent education program will not have credit in Pre-service Education courses applied to an undergraduate degree.

Transfer students admitted to a specific program, who subsequently elect to change their major, may have the applicability of the transfer credits re-evaluated.

B. Context Courses

Humanities

CANA 1F91
CLAS 1P91, 1P92, 1P93, 1P95, 1P97
DART 1F93, 1F95
ENGL 1F91, 1F95, 1F97
FILM 1F94
FREN 1F90
GERM 1F90, 1P93
*HIST 1F90, 1F95, 1F96, HIST 1P98, 1P99**
IASC 1Q98, 1Q99
INTC 1F90
ITAL 1F90, 1P95
LART 1F90, 1Q98, 1Q99
LING 1F25
MARS 1F90
MUSI 1F10, 1F50
PHIL 1F90, 1F91, 1F93, 1F94
PORT 1P95
SPAN 1F90, 1F91, 1P95
VISA 1Q98, 1Q99

Social Sciences

CHSC 1F90
CHYS 1F90
ECON 1P91, 1P92
*GEOG 1F90
*HIST 1F95, HIST 1P98, 1P99**
LABR 1F90
LING 1P92, 1P93
POLI 1F90, 1P91, 1P92, 1P93, 1P94, 1P95, 1P98
PSYC 1F90
SOCI 1F90, 1P80
TREN 1F90
WISE 1F90

Sciences

ASTR 1P01, 1P02

BIOL 1F25, 1F90

CHEM 1F92

ERSC 1F01, 1F90, 1P92

*GEOG 1F91

PHYS 1P21, 1P22, 1P23, 1P91, 1P92, 1P93

SCIE 1P50, 1P51

All students must include one credit (or two half-credits) from each of the list of Humanities, Social Sciences and Sciences courses to fulfill degree requirements. In some cases, a context credit may be part of the major program's requirements.

Students in four-year Honours professional programs must fulfill context requirements by the end of the third year of the program.

All other students must have completed all three of the required context courses within the first 10 credits.

*In cases where subjects are listed under two categories, only one of the requirements may be satisfied by that course (e.g., GEOG 1F90 is taken to fulfill the requirement for the Social Sciences option, GEOG 1F91 may not be taken to fulfill the sciences requirement).

**History majors may not use a history credit to satisfy the social science context requirement.

C. Combined Major Programs

A combined major program is established in two individual Departments/Centres and normally consists of a course pattern that includes:

- A minimum of five credits in each of the two major disciplines for a pass (15 credit) degree and a minimum of seven credits in each of the two major disciplines for a 20 credit degree, where applicable.
- Requirements outside the two major Departments/Centres concerned.
- Core and context requirements.
- Elective credits to make up the requirements for the degree.

If a simple majority of the credits taken during the program has been drawn from courses offered by the Departments/Centres comprising the Faculty of Mathematics and Sciences, the degree awarded upon satisfaction of all graduate requirements will be the Honours, With Major or Pass as appropriate; if drawn from those courses offered by the Departments/Centres comprising the Faculties of Humanities and/or Social Sciences, the degree awarded shall be the Honours, With Major or Pass as appropriate.

D. Credit Limitations

A maximum of seven credits toward a 20

credit BA or BSc degree program, and five credits toward a 15 credit BA or BSc degree, may be taken from any combination of courses taught in the Faculties of Applied Health Sciences, Business and Education.

E. Waiver of Requirements

Departments/Centres may waive prerequisite courses or required program courses for degree candidates who have considerable relevant work experience. Such candidates must, however, complete the required number of courses for a degree.

F. Language Requirement for Students in the Humanities

Students enrolling in a Humanities single major, combined major with one or both majors in the Humanities or an Integrated Studies program with a major concentration in the Humanities, are required to complete one credit in one language other than English. Where half credit courses are used to satisfy the requirement, both half credits must be in the same language.

The choice of the language is left to the student unless specifically designated by the program. Note that LING 1P00 and LING 1P01 satisfy the language requirement. Languages currently offered by the University are: Anglo-Saxon, Cayuga, French, German, Greek, Italian, Japanese, Latin, Mandarin Chinese, Mohawk, Old Norse, Portuguese, Russian, Spanish and Swahili.

Admission to language courses beyond the 1(*alpha*)00 level is dependent upon completing the prerequisite(s) for the course. Students who have acquired high school credit in the chosen language will be excluded from certain lower level courses depending upon their level of proficiency in the language. Questions should be referred to the Department/Centre concerned.

Students whose secondary school program was taught either entirely or to a significant extent in a language other than English and who would, therefore, qualify to enroll in a course numbered 2(*alpha*)00 or above are exempt from the language requirement. For example, such an exemption may be granted to Grade 12U graduates of Français and French immersion programs. Other students seeking this exemption require the approval of the Dean of Humanities when the language of instruction is not one of the above group.

G. Writing Courses

University research over the past decade has shown a very strong relationship between the ability to write well and to succeed in university. For this reason the University offers courses on writing which are available as electives to all Brock students. (See the Department of English Language and Literature for further details.)

A major goal of these courses is to improve the student's ability to express thoughts, to give thought an articulate form and to be able to organize language more efficiently. Success in these matters will give the student more confidence in the ability to control, analyse and present information, vital skills in every area of modern life. The courses aim to make the student a perceptive analyst of the writing of others and careful editors.

H. Extra Courses

Students wishing to augment a regular degree program by taking extra courses because of personal interest may enroll in such courses and designate them as extra courses, not to be used for credit towards that degree.

Students must declare a course to be extra prior to the last day for official withdrawal.

Students changing degree programs may declare non-applicable passed courses as extra to their degree at the time of the program change.

Students may change the designation of passed major courses as extra to their program only with the permission of the Chair/Director.

IV. Graduation Requirements

A. Application for Graduation

Application for graduation at Fall Convocation must be received in the Office of the Registrar by July 1 with the required fee.

Application for graduation at Spring Convocation must be received in the Office of the Registrar by February 1 with the required fee.

These are fixed dates. If these dates fall on a Saturday or Sunday, the closing is 4:30 p.m. the next working day.

The convocation ceremony is physically accessible for both graduands and their guests.

B. Graduation Standing

First-class Honours degrees are granted to students who have completed a 20 credit honours program with first-class honours standing, which requires a minimum 80 percent average in all major credits and 70 percent in the remaining credits. A transfer student must have completed a minimum of five credits at Brock, including all departmental honours requirements for year 4 and have maintained a minimum 75 percent overall average and a minimum 80 percent major average (based on Brock courses only).

Second-class Honours degrees are granted to students who have completed a 20 credit honours program with second-class honours standing, which requires a minimum 70 percent average in all major credits and 60 percent in the remaining credits. A transfer student must have completed a minimum of five credits at Brock, including all departmental honours requirements for year 4 and have maintained a minimum 65 percent overall average and a minimum 70 percent major average (based on Brock courses only).

A degree with Distinction is granted to students who have completed the approved 15 credit pass degree or 20 credit non-honours degree with a minimum 80 percent overall average. Transfer students require a minimum 80 percent cumulative average in all Brock courses and a minimum 80 percent overall average.

A Pass (15 credit), Non-Honours (20 credit) or With Major (20 credit) degree is granted to students who have completed an approved program with a minimum 60 percent overall and 60 percent in the courses designated as major credits. Exception; the BA General Studies (15 credit) degree requires 60 percent overall average (no major average requirement).

C. Undergraduate Degrees

Offered 2008 - 2009

Honours - 20 Credits

Non-Honours - 20 Credits

With Major - 20 Credits

Pass - 15 Credits

Bachelor of Accounting: Honours

Bachelor of Education in Aboriginal Adult Education: Pass

Bachelor of Education in Adult Education: Pass

Bachelor of Arts: Honours, With Major, Pass

Bachelor of Business Administration: Honours, Non-Honours

Bachelor of Business Economics: Honours

Bachelor of Computing and Business: Honours

Bachelor of Kinesiology: Honours, Non-Honours

Bachelor of Music: Honours

Bachelor of Physical Education: Honours, With Major

Bachelor of Public Health: Honours

Bachelor of Recreation and Leisure Studies: Honours, With Major, Pass

Bachelor of Science: Honours, With Major, Pass

Bachelor of Science in Nursing: Honours

Bachelor of Sport Management: Honours, Non Honours

Bachelor Honours Degrees (20 credit)

12 credits must be numbered 2(alpha)00 or above. No more than eight credits at the year 1 level may be taken. Six of the 12 credits must be numbered 2(alpha)90 or above and three of these must be credits numbered 3(alpha)90 or above.

A single major 20 credit degree program normally requires 10 credits in one Department/Centre. See Department/Centre Calendar entry for specific requirements.

A minimum of fourteen credits in the majors (seven from each) are required for a combined major Honours degree.

Bachelor Non-Honours or With Major Degrees (20 credit)

Completion of an approved program with a minimum 60 percent major average and a minimum 60 percent overall average.

12 credits must be numbered 2(alpha)00 or above. No more than eight credits at the year 1 level. Six of the 12 credits must be numbered 2(alpha)90 or above and at least one and one-half to three of these must be credits numbered 3(alpha)90 or above as specified by individual department/centre and program requirements.

A single major 20 credit degree program normally requires 10 credits in one Department/Centre. See Department/Centre information for specific requirements.

A minimum of fourteen credits in the majors (seven from each) are required for a combined major non-honours degree.

Bachelor Pass Degrees (15 credit)

Completion of an approved 15 credit program with a minimum 60 percent overall average and a minimum 60 percent average in courses designated as major credits.

Seven credits must be numbered 2(alpha)00 or higher and three of these must be numbered 2(alpha)90 or above. No more than eight credits are permitted at the year 1 level.

Seven credits are normally required for a single major. A minimum of ten credits (five from each discipline) is required for a combined major pass degree.

A Pass Degree will be rescinded on a student's academic record if a 20 credit Bachelor non-Honours Degree is conferred in the same discipline.

Bachelor of Science Honours or Pass General Studies Degrees (15 or 20 credit)

Available as an Honours (20 credit) and Pass (15 credit) degree.

A minimum 70 percent average in the two declared subject areas and a 60 percent average in the remaining credits for an honours degree.

Completion of an approved 15 credit program with a minimum 60 percent overall average and a 60 percent average in designated subject area courses for a pass degree.

Honours program must include a minimum of seven credits in one subject and five in another.

Pass degree (15 credit) must include five credits in one subject and three in another.

If a simple majority of the courses taken during a General Studies Program has been drawn from courses offered by the Departments/Centres comprising the Faculty of Mathematics and Sciences, then the degree awarded upon satisfaction of all graduation requirements will be the BSc or the BSc (Honours) as appropriate. A BSc General Studies will carry no major, minor or area of concentration.

A maximum of seven credits from any combination of courses from the Faculties of Applied Health Sciences, Business and Education can be included in an honours BSc.

A maximum of five credits from any combination of courses from the Faculties of Applied Health Sciences, Business and Education can be included in a pass BSc.

Education may only be used as the three credit component and only in a pass degree. An honours degree with Education as a component is not possible.

One credit in APCO, COSC or MATH is required.

BSc students (15 credit) must include three credits numbered 2(alpha)90 or above, with a minimum of two credits from the chosen subjects.

Honours students must include three credits numbered 3(alpha)90 or above, with a minimum of two credits from the chosen subjects.

All programs must be approved by the Dean or designate.

Bachelor of Arts Pass General Studies Degree (15 credit)

A minimum 60 percent overall average.

Students must take eight credits numbered 2(alpha)00 or above (a maximum of seven credits at the year 1 level are allowed), including a minimum of three credits numbered 2(alpha)90 level or above.

A BA General Studies carries no major, minor or areas of concentration.

A maximum of five credits from each of two disciplines (including courses cross-listed with that discipline) with the exception of courses from the Faculties of Applied Health Sciences, Business and Education.

A maximum of five credits may be taken from any combination of designated Applied Health Sciences, Business and Education courses (including courses cross-listed with that faculty).

Students must satisfy all general University requirements, including one context credit from the list of eligible courses in each of the faculties of Humanities, Social Sciences and Mathematics and Science.

Students must complete successfully, either one credit in APCO/COSC/MATH or one credit in a LANGUAGE other than English.

Students electing to pursue a General Studies program should develop a program plan in consultation with an Academic Adviser in the Office of the Registrar.

Bachelor of Arts/Bachelor of Science Honours or Pass Degrees

Integrated Studies (15 or 20 credit):

Integrated Studies programs permit a student to pursue a unique, interdisciplinary program of studies which may span two or more departments/centres. Individual programs may be developed at either the honours or pass level.

Students who choose a concentration of courses in the Faculty of Mathematics and Sciences or Faculty of Social Sciences must complete a credit in APCO, COSC or MATH.

Students who choose a concentration of courses in Humanities must complete a credit in a language other than English.

A clear and predetermined plan of study must be approved by the appropriate Dean.

D. Concentrations

A concentration in an honours degree normally requires a minimum of six credits from a list of courses approved by the relevant academic Department/Centre. A concentration enables students to pursue studies within their major or combined major program. Application and approval to carry a concentration is required.

Concentrations are offered in:

Applied and Computational Mathematics
Applied Theatre
Computer Game Development
Criminology
Critical Animal Studies
Curatorial Studies
Drama in Education
Geomatics
Intelligent Systems
Labour Studies
Mathematics Education
Performance
Production and Design
Public Law
Pure Mathematics
Social Justice and Equity
Software Engineering
Statistics
Theatre Praxis

E. Minors

A minor is distinct from a student's major or combined major, and requires from four to six credits as designated by the relevant academic Department/Centre.

Students wishing to obtain a minor, within a degree program, may not use the same course(s) to satisfy both the major requirement and the minor requirement. Application and approval to carry a minor is required.

Minors are offered in:

Applied Computing
Art History
Biological Sciences
Business
Canadian Politics
Canadian Studies
Chemistry
Classics
Comparative Politics
Criminology

Critical Animal Studies
Dramatic Arts
Earth Sciences
Economics
Elementary Teaching Mathematics
English Language and Literature
Environmental Studies
French
Geography
German
History
Interactive Arts and Science
Intercultural Studies
International Politics
Italian
Labour Studies
Liberal Arts
Linguistics
Mathematics
Music
Oenology and Viticulture
Philosophy
Physics
Political Philosophy
Political Science
Professional Ethics
Psychology
Public Policy and Administration
Secondary Teaching Mathematics
Sociology
Spanish
Studies in Arts and Culture
Tourism Studies
Women's Studies
Writing, Rhetoric and Discourse Studies

F. Transfer Students

Students transferring from another university may earn a Brock 20 credit or 15 credit degree, as a first degree, with a minimum of five Brock credits.

Transfer students may complete a BEd Program II degree with a minimum of four Brock credits.

Students seeking a second or subsequent degree will be granted transfer credit to a maximum of 10 credits for a 20 credit degree and a maximum of seven credits for a 15 credit degree. See the following section for further information.

G. Requirements for a Second or Subsequent Degree

With the exception of the BA/BEEd, BSc/BEEd and BPhEd/BEEd degrees, students may not pursue two undergraduate degrees concurrently. An individual who wishes to pursue a second undergraduate degree must:

- have successfully completed the first degree with a minimum 65 percent overall average;
- make application for admission and be admitted to the second degree program (see Admissions for further information);
- fulfill all the specific requirements of each degree program including prerequisites, co-

requisites and honours standing requirements (where appropriate).

To obtain a second degree, students must have completed, with satisfactory standing, at least 50 percent more credits beyond the first degree. The minimum total of credits for both degrees are:

- for a 20 credit degree and a second 15 credit degree: 28 credits.
- for a 20 credit degree and a second 20 credit degree: 30 credits.
- for a 15 credit degree and a second 15 credit degree: 23 credits.
- for a 15 credit degree and a second 20 credit degree: 28 credits.

(an exception exists for the BAcc, BEd in Aboriginal Adult Education and BEd in Adult Education as subsequent degrees. Please see the appropriate Calendar entry).

An applicant who has a bachelor's degree from Brock or another institution may be allowed to pursue undergraduate studies leading to a second bachelor's degree of the same or another designation under the following conditions:

- the principal area of study or academic emphasis must be distinct from that of the first degree. Prior approval from the principal area of study of the second degree must be obtained from the Dean of the appropriate faculty;
- the student must complete, with satisfactory standing, at least 50 percent more credits beyond the first degree (see required number of credits above);
- the student must meet all program requirements for the second degree.

For any second degree, an individual may take only those 1(*alpha*)00 level courses specifically required to fulfill the requirements for the second degree. Electives must be numbered 2(*alpha*)00 or above.

H. Requirements for Holding

a. Degree and a Certificate

Students wishing to hold both a degree and a certificate must fulfill the course requirements for both the degree and the certificate. Students may not be concurrently registered in a certificate program and a degree program. (See "Certificate Requirements" section for more information.)

I. Certificates

The University has established certificate programs for students wishing to acquire specialized knowledge without proceeding

immediately to a degree. Certificates are offered in the following disciplines:

Aboriginal Adult Education (Tecumseh Centre for Aboriginal Research and Education)

Adult Education (Centre for Adult Education and Community Outreach)

Aboriginal Language (Tecumseh Centre for Aboriginal Research and Education)

Administrative Studies (Faculty of Business)

Communication Disorders Assistants (Department of Applied Linguistics)

Criminology (Department of Sociology)

Drama in Education and Society (Department of Dramatic Arts)

Educational Studies (Department of Graduate and Undergraduate Studies)

Enterprise Education (Department of Pre-Service Education)

Environment (Department of Tourism and Environment)

Grape and Wine Technology (Oenology and Viticulture program)

Hearing Sciences (Department of Applied Linguistics)

Labour Studies (Centre for Labour Studies)

Liberal Arts (Centre for Liberal Arts)

Public Administration (Department of Political Science)

Public Law (Department of Political Science)

Rhetoric and Professional Writing (Department of English Language and Literature)

Speech and Language Sciences (Department of Applied Linguistics)

Statistics (Department of Mathematics)

Teaching English as a Subsequent/Foreign Language (Department of Applied Linguistics)

Women's Studies (Centre for Women's Studies)

Requirements for a Certificate

Admission requirements are the same as those for degree programs. (Please see the Admissions section of this calendar). Certificate programs are governed by the same academic regulations as those governing degree programs.

Students admitted to a certificate program will normally be limited to part-time studies.

Registration will normally be limited to a maximum of two credits in the Fall/Winter Session, a maximum of one credit in the Spring Session and a maximum of one credit in the Summer Session. Exceptions to this regulation may be granted by the Dean of the appropriate faculty.

Students seeking admission to the certificate program, following the completion of a degree or diploma program from a university or Colleges of Applied Arts and Technology, will be limited in the number of transferrable credits. No more than one credit from all the courses included in the university degree or college diploma program may be used in the certificate program. With special permission of the Dean of the appropriate faculty, one credit may be taken on a Letter of Permission.

A maximum of one credit may be obtained by Challenge for Credit.

Students wishing to hold both a degree and a certificate must fulfill the course requirements for both the degree and the certificate. Students may not be concurrently registered in a certificate program and a degree program. All credits earned in a certificate program are transferrable to a degree program.

A certificate is awarded upon the successful completion of the courses required for the certificate program with a minimum overall average as determined by the offering Department/Centre. Details appear in the relevant entries of the Calendar. Transfer credits from another institution will not be included in the calculation of the overall average. Any credits transferred from a Brock degree program to a certificate program will be included in the calculation of the overall average.

J. Diplomas

Diplomas and certificates are prepared for students who have completed degree or certificate requirements as prescribed by Senate. Diplomas and certificates are presented at Convocation to students graduating from a degree or certificate program. Degree and certificate program graduates who are not able to attend Convocation may request that their diploma or certificate be sent to them by mail. Diplomas and certificates will be held in the

Office of the Registrar for five years after the date of graduation.

The diplomas of students who attain first-class honours will record their First-Class Honours standing as "First Class Honours in". The diplomas of all other graduates will record "With honours in". The title of the "Major" will be indicated on all diplomas. Diplomas will be designed to indicate the degree name on the first line, the discipline of the major on the second line, the standing (i.e., first-class or distinction) on the third line (if appropriate), and concentration on the fourth line (if appropriate). The notation (3 Year) will appear on three-year pass degrees. The diplomas of students who obtain a Degree with Distinction will record "with distinction". Minors do not appear on diplomas.

K. Replacement of Diploma

Graduates may request, with payment of the required fee, a duplicate or reprinted diploma or certificate. A "duplicate copy" of a student's diploma or certificate will be issued 1) when a student requires a second copy of their diploma or certificate; 2) when, on request for a new diploma, the first copy of the diploma is not returned; and 3) when a statutory declaration (stating that the diploma or certificate has been lost, destroyed) is not submitted. A diploma or certificate will be "reissued" (noting the date of reissue) when the first diploma or certificate is returned or a statutory declaration is submitted. The words "duplicate copy" or "reissued" will be affixed to all diplomas and certificates requested in this manner.

Questions regarding this policy should be addressed to the Associate Registrar, Academic Information and Protocol.

V. Examinations

A. General Information

Students are required to be present for formally scheduled examinations during the regular examination periods.

Written progress and final examinations shall normally be scheduled and administered by the Office of the Registrar and take place under formal conditions during a specially-scheduled examination period.

The style and duration of a University examination (closed or open book; essay or multiple-choice questions) shall normally be at the discretion of the individual instructor. The duration in hours and minutes of a University examination shall appear at the top of the examination paper.

All University examinations being written concurrently in a given room should begin simultaneously. In addition, it is desirable that students writing examinations of different lengths should be segregated in different rooms. A student shall not be permitted to enter a room in which University examinations are being written if the student arrives more than 30 minutes after the commencement of writing, nor shall a student be permitted to leave such a room within the first 30 minutes or within the last 10 minutes of the examination.

When a course is given in more than one section in any given term, it is the responsibility of the Chair/Director and the instructors involved to ensure that the sections are substantially the same in content. This means that the materials covered in the different sections, with some possible minor variations of emphasis, will be similar, and that all sections of the course will write comparable examinations. Tutorial courses, directed research courses and honours thesis courses shall be exempted from this regulation.

Although attempts will be made to minimize consecutive examinations or two examinations in one day, this possibility cannot be eliminated.

In some cases it may be necessary for students registered in evening courses to write examinations during the day or vice versa.

B. Class Tests and Examinations

An instructor may require a student to take a class test or examination, as opposed to an individual test or examination, only during:

- the regular class periods of his/her course;
- the formally scheduled examination period;
- a special examination period, scheduled in the academic timetable and not conflicting with regular class periods or other examinations.

No student may be required to write an examination or test in a time period which conflicts with any of his/her other classes.

Laboratory tests worth no more than 20 percent of a student's final grade may be scheduled, during a student's regularly timetabled laboratory period, in the last week of a term, but only under extreme, extenuating circumstances, with permission of the Dean, will class tests or examinations worth more than 5 percent of the course grade be permitted in the final two weeks of each term.

C. Examination Rules

Students should arrive at the examination room at least 15 minutes before the official start of an examination.

Students should bring their own writing materials. None will be provided by the University.

Students must bring their student ID cards and identify themselves at the request of the invigilator.

Unless special permission has been given, no reference materials of any kind may be brought into an examination room.

Materials authorized for use in an examination must not contain additional notes, formulas or other extraneous material.

Translation dictionaries (e.g., English-French) or other dictionaries (thesaurus, definitions, technical) are not allowed unless otherwise specified by the instructor and indicated on the examination paper.

Students may not enter the examination room early.

Students are not admitted to an examination room later than 30 minutes after the start of an examination.

Students absent from an examination with just cause must first contact the instructor for permission to write a Deferred Examination. Any such application must be accompanied by required supporting documentation and must be submitted within seven days of the examination.

Students not supplying a valid reason for absence from an examination will receive an automatic grade of zero "F" (failed).

D. Progress Examinations

Progress examinations are compulsory in all courses numbered 1F00 to 1F99. Final examinations are compulsory in all courses numbered 1(alpha)00 to 1(alpha)99. However, on the recommendation of the Department/Centre, the Dean may approve replacing the final examination with an alternate evaluation procedure. Final or progress examinations in courses numbered 2(alpha)00 or above may or may not be held, at the discretion of the instructor.

E. Failure to Write an Examination

In courses requiring a final examination, failure to write the examination will normally result in a failing grade.

F. Deferred Examinations

If a student is unable to write a formally scheduled examination, or having begun the exam, is unable to complete it, for reasons of ill-health, with supporting documentation, a deferred examination will be granted. Requests made on the basis of compassionate

grounds or on the grounds of extenuating circumstances will be judged on a case by case basis.

Any medical request for a Deferred Examination must be supported by a completed Student Medical Certificate, Brock University or Brock University Student Health Services Medical Certificate (and include any relevant medical documentation) certifying that the student was not capable of attempting the examination at the scheduled date and time.

A student must first contact the instructor for permission to write a deferred examination. Any such application must be accompanied by required supporting documentation and must be submitted within seven days of the examination.

If the student is not able to contact the course instructor or if the course instructor is not willing to give the student permission to write a deferred examination, within ten days of the examination, application may be made to the Chair/Director of the Department/Centre for permission to write a deferred examination.

If not satisfied with the outcome of the request, the student may then refer the matter to the Dean of the Faculty offering the course.

If the student is not satisfied with the decision of the Dean, the student may then appeal to the Senate Student Appeals Board.

Deferred exams for Fall Term courses will be written no later than the subsequent July 31; for Fall/Winter Session courses, no later than the subsequent August 31; for Spring and Summer Session courses, no later than the subsequent December 31.

Students unable to write a formally scheduled examination because of religious obligations, may request an academic accommodation for religious obligations. Students must make written request to their instructors as early as possible once the examination schedule is posted but no later than the second-last week of classes in the term. Accommodation is to be worked out directly and on an individual basis between the student and the instructor(s) involved. Any dispute unresolved by discussion between the student and instructor may be appealed, first to the Department Chair or Director and thereafter to the Dean of the Faculty in which the student is registered. If the student is not satisfied with the decision of the Dean, the student may then appeal to the Student Appeals Board.

G. Required Medical Documentation

The University endeavours to accommodate students whose studies become interrupted,

or who may be unable to complete academic work, due to an incapacitating medical condition. In these situations, the student must complete the Student Medical Certificate, Brock University or Brock University Student Health Services Medical Certificate and include any relevant medical documentation to support his/her request for academic accommodation based on medical grounds. The University may, at its discretion, request more detailed documentation in certain cases.

H. Part-time Students

In some cases it may be necessary for students registered in evening courses to write examinations during the day or vice versa.

I. Retention of Papers

University final examination scripts shall be retained in the University for a certain period after the examinations have been written. At the time when an instructor transmits the year's grades for a course to the Office of the Registrar, the examination scripts shall be turned over by the instructor to the Administrative Assistant for safekeeping for a period of not less than six months. After that time, they must be shredded.

Students have a right to inspect their final examination papers under faculty supervision.

J. Students with Special Needs

Special needs students requiring examination accommodations must consult the Services for Students with disABILITIES Office early in the academic term.

VI. Evaluation of Student Performance

A. General Information

Evaluation of a student's performance in a course will be determined by employing such indices as examinations, seminar and classroom participation, papers, lab and studio activities, peer evaluation and any other normal class assignments. For each course, the grading scheme will reflect a reasonable diversity of these methods as is appropriate to the subject matter. (Different methods of evaluation for students with special needs are available. Contact the Services for Students with disABILITIES Office.)

When peer evaluation is used, that component cannot count for more than 25 percent of the final grade. Students' grades are reviewed at the end of each session and they are informed of their academic standing.

A review of all undergraduate student performance will take place following the Fall/Winter Session, the Spring Session and the Summer Session prior to the release of grades.

B. Course Outlines

At the beginning of each course, students will be advised in writing of the proposed manner in which evaluation will be carried out in each course. A student is expected to attend all lectures, discussion groups, seminars and laboratory periods of the courses in which they are registered. Instructors must inform their students about the relationship between attendance and their course grades early in each session. This should be indicated on the course outline and on the Composition of Grade Sheet, which shall be deposited with the appropriate Dean no later than the last date for course change. Instructors shall include in course outlines, the date for withdrawal without academic penalty and the date by which they may expect to receive notification of 15 percent of their final grade.

At the same time, students shall be advised in writing of the assignments required of them in each course and the due dates of such assignments.

Any penalties to be levied for late submission of an assignment must be transmitted to students in writing well before the due date of the assignment. To obtain standing in a course a student must complete the necessary term work, tests and final examination, where the latter is required, to the satisfaction of the Department/Centre. Details concerning how this will affect the final grade must be communicated to the student before the last date for deposition of grading schemes.

Students should be informed that the rounding of their roughly computed score to arrive at a final grade which complies with the 0, 2, 5, 8 marking scheme shall be at the instructor's discretion. Marks may be rounded either up or down between any pair, and need not necessarily be rounded to the closest number ending in 0, 2, 5 or 8.

C. Computerized Plagiarism Detection (e.g., Turnitin.com)

Instructors are responsible for taking steps to detect plagiarism in all course work that is submitted by students.

Instructors may take advantage of a number of different computerized plagiarism detection systems (e.g., Turnitin.com) during the course of evaluating essays, assignments, and other work that is required for a given course. However, if an instructor has decided to employ such systems, students must be informed in writing at the beginning of the course.

It will be assumed that students who remain in the course, having been informed of the use of such systems, will have agreed to their use. However, circumstances may arise whereby a student must continue in a course despite their principled objection to participate in the use of such systems. In those cases, the instructor must provide such students with a reasonable offline alternative to using the system such as, but not limited to:

- i) Require a short reflection paper on research methodology;
- ii) Require a draft bibliography prior to submission of the final work;
- iii) Require the cover page and first cited page of each reference source to be photocopied and submitted with the final paper; and/or Require the submission of specified rough notes and drafts.

D. Grades

The following grades are awarded for undergraduate courses:

A - 90, 92, 95, 98, 100

Reserved for students where work is of outstanding quality that provides clear evidence of a rare talent for the subject and of an original and/or incisive mind.

A - 80, 82, 85, 88

Awarded for excellent, accurate work in which evidence of a certain flair for and comprehension of the subject is clearly perceptible.

B - 70, 72, 75, 78

Indicates competent work that shows a sound grasp of the course goals without being distinguished.

C - 60, 62, 65, 68

Represents work of adequate quality which suffers from incompleteness or inaccuracy.

D - 50, 52, 55, 58

Given where the minimum requirements of a course are barely satisfied.

F - 45 or lower

Means that minimum requirements have not been met and no credit has been given for the course.

AG - Aegrotat standing

Aegrotat standing is the granting of credit for a course(s), based on the course work already completed, when no further assessment - for example, a deferred examination - is considered feasible because of illness or other extenuating circumstances beyond the student's control. Students may only be granted Aegrotat Standing with the approval of the Dean of the Faculty offering the course.

SP - Deferred examination

If a student is unable to write a formally scheduled examination, or having begun the exam, is unable to complete it, for reasons of ill-health, with supporting documentation, a Deferred Examination will be granted. Requests made on the basis of compassionate grounds or on the grounds of extenuating circumstances will be judged on a case by case basis. (See "Examinations" section for more information.)

Deferred exams for Fall Term courses will be written no later than the subsequent July 31; for Fall/Winter Session courses, no later than the subsequent August 31; for Spring and Summer Session courses, no later than the subsequent December 31.

SA - Satisfactory

Used for co-op work terms, internship options and non-credit courses.

UN - Unsatisfactory

Used for co-op work terms, internship options and non-credit courses.

W - Withdrawn (where xx is the week of withdrawal)

IN - Incomplete

A temporary grade granted only in exceptional circumstances to a student who has been unable to complete some part of the term work in a course. A final grade must be submitted within 56 days of the last day of the examination period.

IP - In Progress

Used only for fourth-year thesis and project courses or graduate courses (the list of acceptable courses is available in the Office of the Registrar). An IP for undergraduate courses must be cleared within 12 months of the initial registration, otherwise the student must reregister in that course and pay the appropriate course fee.

NR - Not reported

CH/F - Challenge grading

Grade awarded to indicate a successful/unsuccessful challenge for a credit course.

NW - Not withdrawn

Grades applicable to Continuing Teacher Education and Pre-service Faculty of Education courses only:

P1 - 80, 82, 85, 88, 90, 92, 95, 98, 100

P2 - 70, 72, 75, 78

P3 - 60, 62, 65, 68

P/F Pass/Fail

Wxx (as above)

IN (as above)

NR (as above)

NW (as above)

Final grades may be released only by the Office of the Registrar.

E. Calculation of Averages

The average which is used to determine academic standing is computed by dividing the sum of the numeric grades assigned to credits by the total number of credits attempted.*

$$\text{Average} = \frac{\text{The sum (credit weight x grades)}}{\text{Total number of credits attempted}^*}$$

*See regulations on repeated courses.

Only courses taken at Brock and courses taken elsewhere within a designated partnership program will be used in determining a student's average. At present, partnership programs include Freiburg and Summer Studies in Italy. Courses taken on a Letter of Permission from Brock will be marked as Pass/Fail and will not be used in determining any student average. The Registrar's Office should include, as a note on a student's transcript, the exact name and title of the course taken on Letter of Permission, including the grade received at the offering institution.

Note: for the purposes of calculating averages, a value of 45 percent is used for all "F" grades. Transcripts, however, bear the actual grade of the course.

F. Dean's Honours List

Students are placed on The Deans' Honours List if they have completed 5 credits with an average of 80 percent on those credits. The student will be considered for the Dean's Honours List recognition when the 5, 10, 15 and 20 credit level is surpassed. All credits

within the milestone must be completed at Brock to qualify for consideration

G. Minimum Academic Requirements for Continued Registration

First-year students who have received grades in at least two credits must have attained a minimum 60 percent overall average. Continuing students must maintain a minimum 60 percent overall average. (Some programs may require a higher average in order to be eligible to continue studies in that program. See individual Department/Centre requirements.)

H. Academic Probation, Suspension, Debarment

a. Academic Probation:

Students who do not meet minimum academic performance requirements (60 percent overall average) will be placed on Academic Probation. Notice of Academic Probation will be placed on a student's Statement of Standing but not on a student's transcript. Students will be notified, in writing to the mailing address on the student's record, that they have been placed on Academic Probation.

The academic record of students placed on Academic Probation will be re-evaluated following the next session.

Evaluation of Students on Academic Probation:

Students who register in courses (in any session) while on Academic Probation must:

- Pass all courses in which they were registered;
- Achieve a minimum 60 percent overall average on these courses;
- In order to be removed from Academic Probation, a student must raise their overall average to 60 percent.

b. Academic Suspension

Students who fail to meet the terms of Academic Probation will be placed on Academic Suspension for one full calendar year (see evaluation of Students on Academic Probation).

Students who register in courses (in any session) while on Academic Probation must:

- Pass all courses;
- Achieve a minimum 60 percent overall average on these courses otherwise, they will be placed on Academic Suspension for a minimum of one calendar year.

Students registered in current session courses prior to notification of Academic Suspension will be permitted to continue in currently registered courses. Successful completion of such courses will not alter the status of

Academic Suspension.

Notice of Academic Suspension will be placed on a student's Statement of Standing and on a student's transcript. Students will be notified, in writing to the mailing address on the student's record, that they have been placed on Academic Suspension.

Re-admission:

Students on Academic Suspension who wish to be considered for re-admission to the University following the minimum one year period of suspension are required to appeal to the Senate Student Appeals Board

Students readmitted following Academic Suspension will be required to return to studies under the regulations and program of the calendar in effect at the time of their re-registration, and they will be considered to be on Academic Probation for a second time.

Courses taken at another post-secondary institution while on Academic Suspension will not be considered for transfer credit upon re-admission.

Students who can demonstrate that there were extenuating circumstances which affected their academic performance while on Academic Probation may appeal to the Senate Student Appeals Board to permit them to continue their studies without sitting out the required one-year Academic Suspension. Documentation with respect to the grounds for appeal, must be provided by the student in support of any appeal for re-admission. Students granted their request will be readmitted to the University as if they had served the one-year suspension, that is, they will be considered to be on a second Academic Probation.

Evaluation of Students on Academic Probation following Academic Suspension:

Students on a second Academic Probation following Academic Suspension must:

- Pass all courses in which they were registered;
- Achieve a minimum 60 percent overall average on these courses;
- In order to be removed from Academic Probation, a student must raise their overall average to 60 percent.

Students who fail to meet the terms of a second Academic Probation will be placed on Academic Debarment for a minimum of two calendar years.

c. Academic Debarment:

Students who fail to meet the terms of Academic Probation following Academic

Suspension will be placed on Academic Debarment (see Evaluation of Students on Academic Probation following Academic Suspension).

Students who register in courses (in any session) while on a second Academic Probation must:

- Pass all courses;
- Achieve a minimum 60 percent overall average on these courses otherwise, they will be placed on Academic Debarment for a minimum of two calendar years. Notice of Academic Debarment will be placed on a student's Statement of Standing and on a student's transcript. Students will be notified, in writing to the mailing address on the student's record, that they have been placed on Academic Debarment.

Students registered in current session courses prior to notification of Academic Debarment will be permitted to continue in currently registered courses. Successful completion of such courses does not alter the status of Academic Debarment.

Re-admission:

Students on Academic Debarment who wish to be considered for re-admission to the University following the minimum two-year period of Academic Debarment will be required to apply to the Senate Student Appeals Board. Documentation with respect to the grounds for appeal, must be provided by the student in support of any appeal for re-admission. Re-admission is not guaranteed.

Students readmitted following Academic Debarment will be required to return to studies under the regulations and program of the calendar in effect at the time of their re-registration, and they will be considered to be on a final Academic Probation.

Courses taken at another post-secondary institution while on Academic Debarment will not be considered for transfer credit upon re-admission.

Students on a final Academic Probation following Academic Debarment must:

- Pass all courses in which they were registered;
- Achieve a minimum 60 percent overall average on these courses;
- In order to be removed from Academic Probation, a student must raise their overall average to 60 percent.

Students who fail to meet the terms of a final Academic Probation will be placed on

permanent Debarment. There is no appeal against Permanent Debarment. Notice of Permanent Debarment will be placed on a student's Statement of Standing and on a student's transcript. Students will be notified, in writing to the mailing address on the student's record, that they have been placed on Permanent Debarment.

VII. Academic Misconduct

A. Definitions

Academic misconduct may take many forms: The following identifies academic behaviours the University considers inappropriate and which may lead to disciplinary procedures under the Academic Integrity Policy. This list is not comprehensive and should not be seen as complete.

Examinations and Tests

- Impersonation of a candidate in an examination or test.
- Copying information from another student.
- Making information available to other students.
- Use of unauthorized material.
- Submission of a take-home examination written by someone else.

Laboratories

- Copying a laboratory report or allowing someone else to copy one's report.
- Using another student's data unless specifically allowed by the instructor.
- Allowing someone else to do the laboratory work.
- Using direct quotations or sections of paraphrased material in a lab report without acknowledgment.
- Faking or falsifying laboratory data.

Essays, Assignments, Theses and Dissertations

- Submission of an essay, thesis or dissertation written in whole or in part by someone else as one's own.
- Preparing an essay, thesis, dissertation or assignment for submission by another Student.
- Copying an essay, thesis, dissertation or assignment, or allowing one's essay, thesis or assignment to be copied by someone else.
- Using direct quotations or large sections of paraphrased material without acknowledgment.
- The buying or selling of, or contracting for, term papers, theses, computer programs or other assignments.
- The submission of the same piece of work in more than one course without the permission of the Instructors.

- Submitting whole or part of a computer program or code with or without modifications or obfuscation as one's own.

False or Misleading Representation

- Failure to disclose prior academic records required for admission decisions or other academic purposes.
- Obtaining medical or other certificates under false or misleading pretences.
- Altering documents or certificates, including but not restricted to, health claims, tests, and examinations.
- Submitting false credentials for any purpose.
- Forging or falsifying Brock University documents, including but not restricted to hard copy or electronic.

Unprofessional or Inappropriate Behaviour

- Exhibiting unprofessional or dishonest behaviour related to, or in a field placement, practicum or internship.

Individual instructors or Departments/Centres will point out areas of specific concern not covered above. Students should be encouraged to consult instructors in case of doubt.

Plagiarism means presenting work done (in whole or in part) by someone else as if it were one's own and applies to all forms of student work. The work of others can include, but is not limited to, written work, ideas, music, performance pieces, designs, artwork, computer codes and Internet resources. Associated dishonest practices include faking or falsification of data, cheating or the uttering of false statements by a Student in order to obtain unjustified concessions.

Plagiarism should be distinguished from co-operation and collaboration. Often, students may be permitted or expected to work on assignments collectively, and to present the results either collectively or separately. This is not a problem so long as it is clearly understood whose work is being presented, for example, by way of formal acknowledgment or by footnoting.

Instructors should inform students what constitutes acceptable workmanship, proper form of citation and use of sources. In addition, instructors shall clearly define their expectations regarding collaboration and group work.

B. Procedures

Students shall not be penalized for suspected academic misconduct. It is the responsibility of the instructor to demonstrate the accuracy of the charge.

If the instructor can document a case of academic misconduct, the instructor shall inform, concurrently, the Chair/Director and the Office of the Registrar; the latter will not process any application for withdrawal from the course pending the outcome of the investigation of the case. If a charge of academic misconduct is subsequently brought by the instructor, no withdrawal from a course shall be considered valid.

The instructor and the Chair/Director together will interview the student; inform the student that he/she is being charged with academic misconduct and attempt to discover whether there are any extenuating circumstances. If upheld by the Chair/Director, the case will then be referred to the appropriate Dean along with any necessary observations and/or recommendations from the Department/Centre.

The student may, if wished, be accompanied to any interviews by one of the departmental/centre student representatives or faculty, staff or student member of Brock such as, but not limited to, a representative from the Student Development Centre or the Students' Ombuds Officer.

If the Dean is satisfied that a case of academic misconduct has been proven, he/she should inform the Office of the Registrar who, in the case of first offenders, will insert a note in the student's file. The Office of the Registrar will inform the student in writing of the action taken and outline the possible penalties for future infractions. The Office of the Registrar will note the transgression on the student's transcript in the case of second and subsequent offenses. The notation will be removed from the transcript when the student graduates or three years after the last registration.

C. Penalties

A Dean who is satisfied that academic misconduct has occurred shall notify the Registrar, who shall insert a notation in the student's academic file. In addition, a Dean may impose, singularly or in combination, any of the following penalties:

- a. oral or written disciplinary warning or reprimand;
- b. requirement to complete an academic integrity assignment or program;
- c. lower grade or failure on the assignment or examination;
- d. a reduction in the course grade that exceeds the value of the assignment;
- e. failure in the course;
- f. removal from program of study;
- g. notation on Student's official transcript;
- h. suspension from the University, with a transcript notation, for a definite period;
- i. expulsion from the University, with a transcript notation;

- j. withholding or rescinding a Brock degree or certificate.

D. Appeals

Following a Dean's decision on the charge of academic misconduct, all appeals relating to the charge, penalties assigned, suspensions, notations on transcripts or withholding or rescinding of a degree or certificate will be heard by the Senate Student Appeals Board.

Students must ensure that they follow the prescribed process and meet with required individuals prior to submitting an appeal to the Senate Student Appeals Board. Students who submit an appeal to the Senate Student Appeals Board without following the prescribed procedure will have the appeal returned without a decision. There is a fee charged for an appeal to the Senate Student Appeals Board. The fee will be refunded only if the appeal is successful.

VIII. Appeals

A. Appeal of Academic Suspension

Appeals must be directed to the Senate Student Appeals Board.

A typed letter of appeal and all supporting documentation with respect to the grounds for appeal, must be submitted to the Administrative Co-ordinator, Senate Student Appeals Board at the Office of the Registrar by the student in support of any appeal for re-admission.

The Senate Student Appeals Board considers only written submissions and documentation.

Students who can demonstrate that there were extenuating circumstances which affected their academic performance while on Academic Probation may request that the Senate Student Appeals Board permit them to continue their studies without sitting out the required one-year Academic Suspension. A \$25 fee is charged for an appeal for early re-admission. Students granted their request will be readmitted to the University as if they had served the one-year suspension; that is, they will be placed on a second Academic Probation.

Students readmitted to the University after Academic Suspension will be considered to be on a second Academic Probation. Students who pass all courses following re-admission and attain a minimum 60 percent overall average on these courses will be allowed to continue. In order to be removed from Academic Probation, a student must raise their overall average to 60 percent.

B. Appeal of Academic Debarment

Appeals must be directed to the Senate Student Appeals Board.

Appeals for re-admission are considered only after the minimum two year period of debarment. Re-admission is not guaranteed.

Students who can demonstrate that there were extenuating circumstances which affected their academic performance while on Academic Probation may request that the Senate Student Appeals Board permit them to continue their studies without sitting out the required two-year Academic Debarment. A \$25 fee is charged for an appeal for early re-admission. Students granted their request will be readmitted to the University as if they had served the two-year suspension; that is, they will be placed on a final Academic Probation.

Students readmitted following Academic Debarment will be required to return to studies under the regulations and program of the calendar in effect at the time of their re-registration. Students readmitted to the University after Academic Debarment will be considered to be on a final Academic Probation.

Subsequent failure to satisfy Academic Probation requirements will result in Permanent Debarment. There is no appeal against Permanent Debarment.

C. Appeal of Course Grades

Students who have a question regarding the final grade in a course must first discuss the matter with the course instructor. (Failure in itself is not a valid reason for an appeal.)

In the event of an unresolved disagreement, the student must refer the matter to the Chair/Director of the Department/Centre.

If not satisfied, the student must then refer the matter to the Dean of the Faculty.

If the student is not satisfied with the decision of the Dean, the student may then appeal to the Senate Student Appeals Board (see Appeals Procedures).

Appeals of final grades, including the assignment of a failing grade for non-attendance in a course, must be made within 180 days of the official release of grades by the Office of the Registrar. If the absence of the instructor, or other factors make an appeal within 180 days impossible, the intention to appeal should be indicated to the Chair/Director of the Department/Centre within 180 days of the official release of grades by the Office of the Registrar.

In circumstances which prevent the student from presenting information in a timely fashion, a student must present documentation of mitigating evidence, to the Registrar. Upon validation of the documentation, the appeal will be processed.

D. Appeals Related to Academic Requirements/Decisions

A request for an exemption to a departmental/centre degree requirement must be directed to the Chair/Director of the student's Department/Centre major. (Combined majors shall appeal to the Department/Centre directly affected by the request for an exemption.) If not satisfied with the outcome of the request, the student will then refer the matter to the Dean of the Faculty. If the student is not satisfied with the decision of the Dean, the student may then appeal to the Senate Committee on Appeals (See Appeals Procedures).

A request for an exemption to a University or Faculty degree requirement must be directed to the Dean of the student's faculty. If the student is not satisfied with the decision of the Dean, the student may then appeal to the Senate Student Appeals Board (See Appeals Procedures).

E. Appeals of Charges of Academic Misconduct

All appeals relating to the charge of academic misconduct, penalties assigned or notations on transcripts will be heard by the Senate Student Appeals Board (See Appeals Procedures).

F. Requests for Retroactive Registration/Backdated Withdrawals

A request for retroactive registration must be submitted as early as possible in the academic term. Requests will be considered upon the receipt of supporting documentation which outline the reason(s) why formal registration did not occur. A Request for a Retroactive Registration, as well as a *Course Change Form* signed and dated by the course instructor verifying that the student has been in continuous attendance, must accompany this documentation. If approved a late fee may apply. Forms are available in the Office of the Registrar.

A backdated withdrawal will be considered within 12 weeks of the last day of class upon the receipt of a request which is supported by documentation verifying medical reasons or compassionate grounds. Documentation must indicate the reason(s) the student was not able to withdraw on the last day for withdrawal or must note the medical reason(s) or compassionate grounds which will make it impossible for the course to now be completed. Requests submitted without supporting documentation will not be considered. Forms are available in the Office of the Registrar.

Requests for retroactive registration or backdated withdrawal are considered and a decision rendered by the Registrar.

Students wishing to appeal the decision of the Registrar must refer the matter to the appropriate academic Dean. If the student is not satisfied with the decision of the Dean, the student may then appeal to the Senate Student Appeals Board. Appeals to the Senate Student Appeals Board must be typed, must provide any additional documentation not submitted to the Dean and must be accompanied by the appeal fee. The fee will be refunded only if the appeal is successful. When appropriate, the grade NW (Not Withdrawn) may be assigned by the Senate Student Appeals Board within the specified appeal period and when supporting documentation is supplied by the student.

IX. Appeals Procedures

A. Method of Appeal to the Senate Student Appeals Board

All appeals directed to the Senate Student Appeals Board must be received in type-written form. Submissions not received in this form will be returned to the student without decision. Appeals should be submitted to the Administrative Co-ordinator, Senate Students Appeals Board, in care of the Office of the Registrar, must provide any additional documentation not submitted to the Dean and must be accompanied by the appeal fee.

Appeals must clearly state the arguments and expectations of the student. The responsibility is on the student to demonstrate the validity of the appeal and to provide full and appropriate supporting documentation. Dissatisfaction with University policy and ignorance or neglect of published deadlines will not constitute sufficient grounds for appeal.

Appeals of academic decisions must be made within 30 days of the date of the letter informing the student of the academic decision or within 30 days of the official release date of the Statement of Standing which informs the student of the academic decision and/or final grade.

Appeals based on emotional or medical problems must be supported by a Student Medical Certificate, Brock University or Brock University Student Health Services Medical Certificate indicating specifically the student's inability to fulfil the requirements being appealed (See Item B, below).

A student may abandon an appeal at any time during the particular process.

B. Required Medical Documentation

The University endeavours to accommodate students whose studies become interrupted, or who may be unable to complete academic work, due to an incapacitating medical condition. In these situations, the student must complete the Student Medical Certificate, Brock University or Brock University Student Health Services Medical Certificate and include any relevant medical documentation to support his/her request for academic accommodation based on medical grounds. The University may, at its discretion, request more detailed documentation in certain cases.

C. Hearings at the Senate Student Appeals Board

Meetings of the Senate Student Appeals Board are held in camera (not open to the public).

Students appealing to the Senate Students Appeals Board will be notified of the date on which the student's appeal will be considered. Appellants may attend hearings, present verbal arguments and question the Dean (or the person designated by the Dean) or the Registrar.

Students must inform the Administrative Co-ordinator, Senate Students Appeals Board of their intention to attend the meeting.

Students are entitled to bring one faculty, staff or currently registered student member of Brock University (who shall act as an advisor) to the meeting of the Senate Student Appeals Board.

If a student has asked to attend the meeting of the Senate Student Appeals Board, the Dean (or the person designated by the Dean) whose decision is being appealed will be invited to attend that meeting of the Senate Student Appeals Board.

The Senate Student Appeals Board may request the attendance of appropriate individuals to appear before the Committee to provide information pertinent to the appeal.

Where the appeal is against an assigned final grade, the faculty member named in the appeal will be invited to attend the meeting of the Senate Student Appeals Board.

In instances where a faculty member, Chair/Director is named in an appeal, the student's submission will be available to the individual named.

At the request of the student, the written response of the faculty member, Chair/Director or Dean to an appeal will be made available to the student.

The student and the Dean, and where applicable the Chair/Director and faculty member, will be informed in writing, of the decision of the Senate Student Appeals Board.

The decision of the Board is final.

DEGREES AND CERTIFICATES

DEGREES

Bachelor of Accounting (Honours)
Bachelor of Education Aboriginal Adult Education (Pass)
Bachelor of Education Adult Education (Pass)
Bachelor of Arts (Honours and Pass)
Bachelor of Arts with Major
Bachelor of Business Administration (Honours)
Bachelor of Business Administration
Bachelor of Business Economics (Honours)
Bachelor of Computing and Business (Honours)
Bachelor of Education
Bachelor of Kinesiology (Honours)
Bachelor of Kinesiology
Bachelor of Music (Honours)
Bachelor of Physical Education (Honours)
Bachelor of Physical Education with Major
Bachelor of Public Health (Honours)
Bachelor of Recreation and Leisure Studies (Honours and Pass)
Bachelor of Recreation and Leisure Studies With Major
Bachelor of Science (Honours and Pass)
Bachelor of Science with Major
Bachelor of Science in Nursing (Honours)
Bachelor of Sport Management (Honours)
Bachelor of Sport Management

CONCURRENT DEGREES

Bachelor of Arts (Honours)/Bachelor of Education (Intermediate/Senior)
Bachelor of Arts Child and Youth Studies (Honours)/
Bachelor of Education (Primary/Junior)
Bachelor of Arts - Integrated Studies (Honours)/Bachelor of Education (Junior/Intermediate)
Bachelor of Physical Education (Honours)/Bachelor of Education (Intermediate/Senior)
Bachelor of Physical Education (Honours)/Bachelor of Education (Junior/Intermediate)
Bachelor of Science (Honours)/Bachelor of Education (Intermediate/Senior)
Bachelor of Science - Integrated Studies (Honours)/
Bachelor of Education (Junior/Intermediate)

CERTIFICATES

Aboriginal Adult Education
(Tecumseh Centre for Aboriginal Research and Education)
Adult Education
(Centre for Education and Community Outreach)
Aboriginal Language
(Tecumseh Centre for Aboriginal Research and Education)
Administrative Studies
(Faculty of Business)
Communication Disorders Assistants
(Department of Applied Linguistics)
Criminology
(Department of Sociology)
Drama in Education and Society
(Department of Dramatic Arts)
Educational Studies
(Department of Graduate and Undergraduate Studies)
Environment
(Department of Tourism and Environment)
Grape and Wine Technology
(Oenology and Viticulture program)
Hearing Sciences
(Department of Applied Linguistics)
Labour Studies
(Centre for Labour Studies)
Liberal Arts
(Centre for Liberal Arts)
Public Administration
(Department of Political Science)
Public Law
(Department of Political Science)
Rhetoric and Professional Writing
(Department of English Language and Literature)
Speech and Language Sciences
(Department of Applied Linguistics)
Statistics
(Department of Mathematics)
Teaching English as a Subsequent/Foreign Language
(Department of Applied Linguistics)
Women's Studies
(Centre for Women's Studies)

Code of Student Conduct and Disciplinary Procedures in Non-Academic Matters

Introduction

Brock University is a distinct community of students, staff and faculty, involved in learning, teaching, research and other activities. Students become a member of this community for the period of their registration in the academic program to which they have been admitted and, as such, assume the responsibilities that such registration entails.

All members of the community are expected to support an environment that is conducive to the personal and professional growth of all who study, work and live within it. As part of the University community, all students and student groups are expected to maintain a high standard of conduct based on the Statement of Student Rights and Responsibilities within this Code, and that is appropriate to a community of scholarship and learning.

As an academic community, the University governs the activities of all its members and sets standards of behaviour in order to promote and maintain an environment of mutual respect for the rights, responsibilities, dignity and well-being of others and the larger community. The University must therefore make provisions for student discipline with respect to conduct that jeopardizes the good order and proper functioning of the academic and non-academic programs and activities of the University, that endangers the health, safety, rights or property of its members or visitors, or that adversely affects the property of the University or bodies related to it. The primary objective of this Code is not to be punitive but rather to be a guideline for appropriate behaviour in a diversified educational environment. Where possible and appropriate, education and provision of support services shall be used to attempt informal resolution of a matter before proceeding to formal disciplinary procedures. The conduct described under Offences, in sections 4-20, constitute misconduct under this Code.

In accordance with Student Event Risk Management Procedures, the University sponsors, encourages or tolerates many non-

academic activities of its members, both on and off University premises. These activities, though generally separate from the defined requirements of students' academic programs, are recognized by the University as a valuable and important part of the life of the University and its students. While such activities are encouraged, they should be done in accordance with students' responsibilities under this Code and under the Student Event Risk Management Procedures.

Purpose

This Code has several purposes:

- to identify guidelines for appropriate student behaviour while at Brock University,
- to identify behaviour that is considered non-academic student misconduct and set out procedures for addressing such misconduct, and
- to set out procedures for responding to students-at-risk and their behaviour.

Scope

This Code applies to the conduct of students while on University premises or when acting as a delegate or designated representative of Brock University and/or of a student group in events held off University premises.

Students are expected to be individually responsible for their actions whether acting individually or in a group. The University takes the position that students have an obligation to make legal and responsible decisions concerning their conduct as, or as if they were, adults. The University has no general responsibility for the moral or social behaviour of its students. In the exercise of its disciplinary authority and responsibility, the University treats students as free to organize their own personal lives, behaviours and associations subject only to the laws of the land and to University regulations that are necessary to protect the integrity and safety of University activities, the peaceful and safe enjoyment of University housing by residents, or the freedom of members of the University community to participate reasonably in the programs of the University and in activities in or on the University's premises. Strict regulation of such activities by Brock University is otherwise neither necessary nor appropriate.

Under some circumstances, such as when a student has not yet reached the legal age of majority, additional limitations on student conduct may apply.

Any student reported for alleged misconduct is subject to informal or formal disciplinary procedures within this Code, regardless of the action or inaction of civil/criminal

authorities. Misconduct by a student may also constitute a violation of other University policies, such as those related to residence, human rights, alcohol use, and use of information technology services. Where there are questions about the application of this Code and/or related policies, they shall be determined by the designated administrators of the relevant policies involved. Where the alleged misconduct is processed solely under this Code, the sanctions in the other relevant policy or policies are deemed to be incorporated in their entirety into the terms of this Code. A map of discipline jurisdiction for the Department of Residences is appended to this document.

A student host is deemed to be responsible for the conduct of his/her guest(s).

Responsibility of Student Organizations:

- a. Student organizations may held responsible for misconduct by members of the organization, according to the Student Event Risk Management Procedures.
- b. Failure to follow the Student Event Risk Management Procedures is an offence under section 19 of this Code.

Nothing in this Code shall be construed to prohibit peaceful assemblies and demonstrations, lawful picketing, or to inhibit the freedom of association or expression in accordance with the Canadian Charter of Rights and Freedoms.

Policy

1. Definitions: When used in this Code: "Associate Vice-President, Student Services" is designated by the University President and is responsible for the administration of this Code.

"Disability", as set out in the Ontario Human Rights Code and used for this Code, means,

- a. any degree of physical disability, infirmity, malformation or disfigurement that is caused by bodily injury, birth defect or illness and, without limiting the generality of the foregoing, includes diabetes mellitus, epilepsy, a brain injury, any degree of paralysis, amputation, lack of physical co-ordination, blindness or visual impediment, deafness or hearing impediment, muteness or speech impediment, or physical reliance on a guide dog or other animal or on a wheelchair or other remedial appliance or device,
- b. a condition of mental impairment or a developmental disability,
- c. a learning disability, or a dysfunction in one or more of the processes involved in understanding or using symbols or spoken language,

d. a mental disorder, or

e. an injury or disability for which benefits were claimed or received under the insurance plan established under the Workplace Safety and Insurance Act.

“Guest” means a person who is visiting a student on University premises.

“Misconduct” means actions by a student that are in violation of their responsibilities under this Code and actions that constitute a defined offence within this Code.

“Policy” is defined as the written regulations of the University as found in, but not limited to, this Code, Residence Community Guiding Principles and Graduate/Undergraduate calendars.

“Student” means a person who is registered in a course of study approved by the Senate; engaged in any academic work which leads to the recording and/or issue of a mark, grade or statement of performance by the appropriate authority in the University or another institution; entitled to a valid student card who is between sessions but is entitled because of student status to use University facilities; and/or participating in the Intensive English Language Program.

“Student-at-risk” means any student whose physical or mental state is such that they may be or have become a threat to themselves, others, the educational process, or the Brock community in general. This state may or may not involve allegations of misconduct by the student.

“Student-at-Risk Case Team” may include representatives from the following departments on campus: Associate Vice-President, Student Services; Campus Security Services; Department of Residences; Office of Human Rights and Equity Services; Student Health Services; Personal Counselling; Services for Students with Disabilities); Student Conduct and Activities Officer; Student Ombudsperson; and other university personnel as determined appropriate by the Student-at-Risk Case Team. The Student-at-Risk Case Team serves several purposes: to support early intervention with students-at-risk by encouraging access to support services and attempting to prevent misconduct; to increase coordination across university departments in how student-at-risk conduct is monitored and disciplined; and to respond to crisis or emergency situations involving students-at-risk. The Chair of the Student-at-Risk Case Team shall be appointed by the Associate Vice-President, Student Services.

“Student Conduct and Activities Officer” means an individual, appointed by the Associate Vice-President, Student Services, who will hear allegations of misconduct and make determinations and/or recommendations under this Code, independently or as part of the University Discipline Panel.

“Student Host” means a student who has a guest on University premises.

“Student Organizations” means student organizations registered under the Student Organization Registry; student organizations that have filed a Student Event Proposal under the Student Event Risk Management Procedures; and/or student organizations who use their affiliation with Brock University to organize, promote or facilitate an event for students.

“Support Services” includes, but is not limited to, Aboriginal Student Services, Office of Human Rights and Equity Services, Student Health Services, Personal Counselling, Services for Students with Disabilities, Student Ombudsperson, International Services, Student Awards and Financial Aid, Academic Counselling, and appropriate resources from the larger community.

The term “University” means Brock University. University “premises” means building and lands owned, leased, operated, controlled or supervised by the University. “University Discipline Panel” means a panel comprised of up to fifteen student volunteers and the Student Conduct and Activities Officer, and includes any person or persons authorized by the Associate Vice-President, Student Services to determine whether a student has violated this Code and to impose sanctions. Please see Appendix A for the procedures associated with the operation of the University Discipline Panel.

“Working Days” means Mondays to Fridays, excluding Saturdays, Sundays and paid holidays observed by the University.

Where an offence is described as depending on “knowing”, the offence shall also be deemed to have been committed if the person ought reasonably to have known.

The term “shall” is used in the imperative sense.

The term “may” is used in the permissive sense.

Statement on Students’ Rights and Responsibilities

2. Students may think, speak, write, create, study, learn, pursue social, cultural and other interests and associate together for these purposes subject to the principles of mutual

respect for the dignity, worth and rights of others as outlined by the Ontario Human Rights Code. All members of the University community, as members of society at large, are responsible to abide by federal, provincial and municipal laws in addition to University regulations. Every student has the right to a hearing by an impartial tribunal of any disciplinary charges brought against him or her under University regulations. Every student who is charged with a disciplinary offense has a right to present a defence. In particular, every student has a right:

a. To be promptly informed in writing of the nature of the charge;

b. To refuse to answer incriminating questions;

c. To present and examine witnesses, and to cross-examine witnesses present who testify against him or her;

d. To be accompanied by an adviser and/or support person from the Brock community as outlined in the relevant panel’s policies and procedures.

3. The University upholds and will take reasonable steps to ensure students of the following privileges:

a. **Participation in University and Student Government:** Students may participate in formulation and application of institutional policy affecting academic, extra-curricular and student union affairs.

b. **Freedom of Discussion:** Traditional privileges of a university of freedom of inquiry and freedom of expression can be assured only if all members of the community share the responsibility of granting these freedoms to others and accept the obligation for a standard of behaviour which respects the rights of others.

c. **Assembly:** Peaceful assemblies, demonstrations and lawful picketing are allowed within established laws to the extent that they do not interfere with the rights and privileges of others or with the normal functions of the University.

d. **Fairness:** Consistency and fairness are ensured by the procedures outlined in the process and procedures below.

e. **Confidentiality:** Confidentiality of University records relating to each student is protected. For further details refer to the following published statements: Academic Regulations and University Policies, Section I: Confidentiality and Release of Student Records, Freedom of Information and Privacy Protection Policy, and Confidentiality in the Student Development Centre.

f. **Safety:** The University is committed to promoting safe conditions of living, learning and studying.

g. **Access to Facilities and Services:** Access to buildings and facilities is governed by regulations that are necessary for the safety and security of students. The University accepts the obligation to provide adequate access to persons with disabilities.

h. **Access to Licensed Facilities and Events:** Access to campus events where alcohol is served is subject to restrictions for persons under nineteen (19) years of age. Students who are of age must make responsible choices regarding the use of alcohol in order to maintain their privilege to attend such events.

i. Offences

Recognizing that an exhaustive list of all possible misconduct cannot be provided, the following list is offered as a guide. Any of the following activities constitutes an offense under the Code and is subject to disciplinary procedures and sanctions outlined below. Furthermore, the activity may be subject to criminal prosecution notwithstanding and in addition to this Code.

4. Disruptions

No student shall:

- by action, words, written material, or by any other means, obstruct University activities or services. University activities and services include but are not limited to teaching, research, studying, student events, administration, meetings and public service.

5. i) Verbal Abuses/Threat of Bodily Harm

ii) Physical Abuses/Infliction of Bodily Harm

iii) Threatening Behaviour/Dangerous Activity

No student shall:

- Implicitly or explicitly threaten any member of the University community or cause any other member of the university community to fear harm.
- physically abuse, or inflict bodily harm upon others
- create a condition which endangers or threatens the health or safety of themselves or others.

6. Inciting Violence

No student shall:

- on University premises, individually or with a group and in connection with a

demonstration including picketing or a rally;

- use words which threaten violence or physical abuse to any group or individual;
- use words in a situation of clear and imminent danger which incite others to behaviour which violates any article in this Offences section.

7. Harassment

No student shall:

- harass another person. Harassment is defined as any unwanted behaviour (physical, verbal, written or otherwise) directed at an individual or group by another individual or group who know(s) or ought reasonably to know that this behaviour is unwanted. (see also Brock University's Respectful Work and Learning Environment Policy)

8. Unauthorized Entry and/or Presence

No student shall:

- enter into or remain on University premises without proper authority. Campus Security Services may charge students who violate this provision with trespass under the Trespass to Property Act.

9. Damage and Destruction of Property

No student shall:

- misappropriate, destroy or otherwise damage University property;
- misappropriate, destroy or otherwise damage any property not the person's own on University property;
- deface the inside or outside of any building or property of the University;
- possess food or drink in any area where prohibited.

10. Unauthorized Use of Facilities, Equipment, Materials or Services

No student shall:

- use any facility, equipment, material or service contrary to express instruction or without proper authority;
- obtain and/or use any University equipment, material or service by fraudulent means or by providing false information.

11. Misuse of University Supplies or Documents

No student shall:

- without proper authority, make, alter, use, receive or possess University supplies or documents. University supplies and documents include but are not limited to equipment, keys, records, permits, letterhead, stationery and envelopes.

12. Misuse of Library or Computer Resources

No student shall:

- remove books or other library material from the university libraries without proper authorization;
- mutilate or deface library books or material;
- purposefully misplace library books or material or in any way deprive others of access to library resources;
- abuse any University computer or computer related facility or software, alter or remove computer files or software without proper authorization, purposefully misplace them, or deprive others of access to computer resources;
- use computer equipment on campus to download, distribute or send offensive, discriminatory, and/or harassing material.

13. Identification

No student shall:

- refuse to identify himself or herself upon request by University officials acting in the course of their duties.
- be in possession of, or distribute false identification or altered identification.

14. Aiding and Abetting

No student shall:

- Knowingly aid or abet another person in the commission of any infraction of this Code. Students who assist in misconduct will be equally liable.

15. False Charges

No student shall:

- knowingly bring a false charge against any member of the University community.

16. i) Misconduct Related to the Use of Alcohol

ii) Misconduct Related to the Use of Drugs

No student shall:

- be intoxicated on University premises;
- be in possession of or consume alcoholic beverages at an event on University premises designated as a "dry" (non-alcohol) event;
- be in possession or consume alcohol anywhere on University premises if under the age of nineteen (19) years;
- furnish alcoholic beverages to any person under the age of nineteen (19) years;
- invite, sign in, or admit a guest except as s/he assumes full responsibility for the guest's behaviour as it relates to this Code;
- violate the University Alcohol Policy
- be in possession of, furnish to anyone, consume, or be in the company of those who are consuming or furnishing non-prescription drugs or prescription drugs for recreational purposes;

NOTE: Intoxication is never grounds for leniency. Rather, excessive drinking and/or use of drugs is subject to sanctioning, notwithstanding and in addition to sanctions imposed for misconduct associated with drinking.

17. Hazing

No student shall:

- engage in hazing which is defined as an act which endangers the mental or physical health or safety of a student, for the purpose of initiation, admission into, affiliation with, or as a condition for continued membership in, a group or organization.

18. i) Theft

ii) Illegal or Unauthorized Possession

No student shall:

- possess University property or the property of any member of the University community without the permission of the rightful owner;
- use, possess, or distribute alcoholic beverages except as expressly permitted by law and by the University regulations;
- possess illegally or without authorization firearms, explosives, other weapons or dangerous chemicals on University premises.

19. Failure to comply

No student shall:

- fail to comply with directions of University Officials, Campus Security Services, or other law enforcement officers acting in performance of their duties;
- fail to comply with published University policies, rules or regulations.
- invite, sign in, or admit a guest except as s/he assumes full responsibility for the guest's behaviour as it relates to this Code.

20. Abuse of the Disciplinary System

No student shall:

- falsify, distort, or otherwise misrepresent information before the Discipline Panel;
- disrupt or interfere with the orderly conduct of the disciplinary hearing;
- knowingly falsify an incident report on another student;
- attempt to discourage an individual's proper participation in, or use of the disciplinary system;
- attempt to influence the impartiality of a member of the Discipline Panel prior to, and/or during the disciplinary proceeding;
- harass (verbally or physically) and/or intimidate a member of a Discipline Panel

prior to, during, and/or after a disciplinary proceeding;

- influence or attempt to influence another person to commit an abuse of the discipline system.

Process and Procedures for Addressing Student Misconduct

21. Residence Offense Procedures: Any breaches of the Residence Agreement or Residence Community Guiding Principles will be handled in the first case by the Department of Residences' disciplinary procedures and sanctions. In addition to sanctions applied within the Department of Residences, in serious offenses the Director of Residences may forward the case to the Student Conduct and Activities Officer for action under the section 23 (Other University Offense Procedures) of this Code. Residence and University Discipline Zones are described and displayed on a map of the University campus, in Appendix B to this document.

22. Minor Offense Procedures: Minor misconduct is addressed in the area or department where it occurs. The official of the University in whose jurisdiction an incident occurs will notify the Student Conduct and Activities Officer when:

- Satisfactory resolution of minor allegations and sanctions cannot be achieved between the student and the University official;
- Minor infractions are repeated by the same student;
- The University official believes the infraction warrants a sanction greater than the minor offense sanctions listed below.

Students who wish to appeal minor offence decisions should do so with the University official's immediate supervisor.

23. Other University Offense Procedures: Notice of an alleged offense under this Code may be filed with the Student Conduct and Activities Officer by any member of the Brock community within ten (10) working days of the incident in question. This time period for filing notice of an alleged offense may be extended at the discretion the Associate Vice-President, Student Services or the Student Conduct and Activities Officer. Incident report forms must be completed in full and are available from the Student Conduct and Activities Officer. Where required, Campus Security Services may investigate alleged offenses.

24. The Student Conduct and Activities Officer may:

- dismiss the matter;
- interview the student independently and,

if satisfied that the offence has been committed, impose any of the offense sanctions listed below;

- refer the matter to the University Discipline Panel, and arrange for the student to appear at a specified hearing of the Panel, providing the student with a copy of University Discipline Panel Procedures.

25. Informal Appeals: Students who have grounds for believing that they have been treated unfairly or inappropriately in the course of their dealings with an office of the University are encouraged to address their concerns in the first instance directly to the office in question, normally to the senior administrator of the office. Where this does not lead to a satisfactory resolution, students may wish to consult the Student Ombudsperson for advice regarding formal avenues of appeal. Formal appeal procedures are available as outlined below.

26. Residence Appeals: The Director of Residences will act as the final avenue of appeal for residence cases that have not been referred to the Student Conduct and Activities Officer and the University Discipline Panel. Where the sanction being appealed is eviction from residence, the Director of Residences shall consult with the Associate Vice-President, Student Services regarding the appeal.

27. Eligibility for Appeal: Students may appeal the decision of the University Discipline Panel with respect to student non-academic conduct or discipline, under the following circumstances:

- Where evidence emerges which was not available to a party at the time of the original hearing
- There was clear evidence of bias
- Where the disciplinary procedures were not followed and where the outcome of the case at the original hearing might have been substantially affected thereby

If there are insufficient grounds for appeal, the student shall be notified in writing within ten (10) working days of having filed the request for an appeal.

28. Appeals from sanctions applied by the University Discipline Panel:

- Students may appeal to the Associate Vice-President, Student Services any sanctions applied by the University Discipline Panel.
- Appeals must be submitted in writing to the Office of the Associate Vice-President, Student Services within ten (10) working days of the student's University Discipline Panel hearing.
- Within ten (10) working days of acceptance of an appeal, the Associate Vice-

President, Student Services shall contact the student. If the grounds identified for the appeal are accepted then a meeting will be established.

- The Associate Vice-President, Student Services may uphold the sanctions applied by the University Discipline Panel, or may lessen the sanction.

The appeal must be signed by the student and include the grounds of the appeal. Appendix C sets out the Procedures for Appeal from Sanctions Applied by the University Discipline Panel.

29. Appeals from sanctions applied by the Associate Vice-President, Student Services

- Sanctions applied by the Associate Vice-President, Student Services to suspend, expel or exclude a student from academic areas of the campus may be appealed to the University Appeal Board through the Office of the Vice-President, Academic. Please see Procedures for Appeals to the University Appeal Board in Appendix D.
- Appeals must be submitted in writing to the Office of the Vice-President, Academic within ten (10) working days of the student having received notification of sanctions from the Associate Vice-President, Student Services.
- The appeal must be signed by the student and include the grounds of the appeal.
- Within ten (10) working days of accepting the grounds for appeal, the Vice-President, Academic shall establish a University Appeal Board hearing panel and notify appropriate parties as outlined in the Policies and Procedures of the University Appeal Board.

Sanctions for Student Misconduct

30. Temporary Suspension and Trespass Sanctions: The University reserves the right to intervene in situations where students' behaviour affects others' use and enjoyment of University privileges and facilities. Pending convening of a Discipline Panel hearing, the Associate Vice-President, Student Services or the Vice-President, Academic or their designate may apply a temporary university-wide trespass/suspension sanction and the Director of Residences or their designate may apply a temporary residence trespass sanction, in the appropriate circumstances. These circumstances include those where they determine there are reasonable grounds to believe that the safety of other people is endangered, that there is a high potential of physical danger posed by the student's continued presence, that damage to University property is likely, or that the continued presence of the student would be disruptive. Upon imposition of such temporary sanction, the student will be

excluded from residence or campus in whole or specified part(s) effective immediately, for as long as reasonably required by the nature of the danger. A formal discipline hearing will normally be held within ten (10) working days of notice to the student of this decision, during which time the student may only enter the residence and/or campus under escort where he or she has received proper notice of a meeting to be held regarding discipline.

31. Criminal Offenses: Criminal offenses committed on the University premises against persons or property, and reported to Brock University Campus Security Services, will be addressed according to the law. When a student is involved in criminal activity, Campus Security Services will notify the Associate Vice-President, Student Services. The Associate Vice-President, Student Services will determine if the matter may be independently subject to University discipline under this Code, notwithstanding, and in addition to, possible criminal prosecution or civil actions.

32. Residence Offense Sanctions: Sanctions for residence offenses are defined under the Residence Agreement and Residence Community Guiding Principles.

33. Minor Offense Sanctions: Minor misconduct is addressed in the area or department where it occurs. The officer of the University in whose jurisdiction an incident occurs may apply the following minor sanctions if, after hearing the student's response to the allegation, he or she is satisfied that minor misconduct occurred:

- A period of service to the University or the Brock University Students' Union to a maximum of three (3) hours (by the Director of Campus Security Services or the Brock University Students' Union Business Manager);
- Exclusion from a class for the class period in which the misconduct occurs (by the instructor);
- Exclusion from other University facilities for a maximum of forty-eight (48) hours (by the Director of the facility or the Associate Vice-President, Student Services);
- Exclusion from access to campus computing resources for a maximum of one week (by the Systems Services Department's Systems Administrators);
- Exclusion from the Student Centre Pub and/or liquor service events for an indefinite period of time (by the Brock University Students' Union Business Manager, the Student Centre Pub Manager, or the Director of Residences);

- Payment for damages of \$100.00 or less (by the Director of the facility, the Brock University Students' Union Business Manager, or the University Librarian or Associate University Librarian).

34. Other Offense Sanctions: The University Discipline Panel may apply any one or any combination of the following sanctions:

- A letter of reprimand;
- A period of probation during which further incidents will be subject to automatic sanctions;
- Restitution for damages;
- A verbal and/or written apology;
- Fines not to exceed \$500.00;
- Removal of privileges for use of licensed facilities on campus;
- A period of service to the University or the Brock University Students' Union not to exceed twenty-one (21) hours;
- Completion of an educational program or project; and/or
- Suspension from extra-curricular activities of the University community for a specified period of time, not to exceed one year.

The University Discipline Panel may recommend to the Associate Vice-President, Student Services the following sanctions:

- Exclusion from facilities of the University (in whole or in part) for a specified period of time not to exceed one year;
- Suspension from the University; or
- Expulsion from the University.

The Associate Vice-President, Student Services may uphold the recommendation and apply the sanction to the student, or apply a lesser sanction. In unusual circumstances, where the University Discipline Panel decides on a sanction that is not listed above, the Panel may recommend an exceptional sanction to be considered by the Associate Vice-President, Student Services.

35. Financial Sanctions: Students whose sanctions include some form of financial restitution will be given the opportunity to make payment to the Student Development Centre. Failure to pay within the designated timelines will result in the outstanding debt being added to the student's university account.

Failure to fulfill the obligations under any sanction will result in an additional \$50.00 fine for every sanction not complied with by the designated deadline, and the obligations under the sanctions must still be completed.

Students-at-Risk

36. In addition to dealing with student misconduct, the University has the right and

responsibility to address the conduct of a student-at-risk in order to protect that student and/or other members of the University or local community from any threat posed by their conduct, whether or not misconduct under this Code has occurred. The University must seek to balance the rights of the student-at-risk and the rights of other members of the University community when governing the conduct of the student-at-risk.

37. Student-at-Risk – Threat Assessment: There are three levels of threat a student-at-risk may pose to her/himself or others. A **Level 1 threat** means that there is no clear, immediate threat at present and no known occurrence of misconduct, but the conduct of the student-at-risk creates a reasonable fear/concern that a threat may exist in the future and misconduct is likely to occur. A **Level 2 threat** means that there is no clear, immediate threat at present but misconduct has occurred and the conduct of the student-at-risk creates a reasonable fear/concern that a threat continues to exist and further misconduct is likely to occur. A **Level 3 threat** means that there is a clear, immediate threat at present, which triggers the University's duty to warn and to take action to protect the student-at-risk and/or others.

38. Student-at-Risk Case Team: A Student-at-Risk Case Team will be used to provide a coordinated response and support to the student-at-risk. Protocol for dealing with students-at-risk may differ depending on the level of threat posed by the student-at-risk, and is set out in the Process and Procedures for Responding to Students at Risk, as set out below. In addition, the Student-at-Risk Case Team will meet on a regular basis as a working group on campus to support each other and to continue to develop and deliver a coordinated response to the issue of students-at-risk at Brock University.

39. Addressing the conduct of a student-at-risk can pose unique challenges to the University where that student has a mental or physical disability that is contributing to the "at-risk" behaviour. The University acknowledges that it has a duty to accommodate a student with a disability, in accordance with provincial law and University policy. Accommodation of students with disabilities should be made in accordance with the following principles: respect for dignity, individualized accommodation, and inclusion and full participation. The University has a duty to accommodate up to the point of undue hardship. The Ontario Human Rights Commission sets out three considerations in assessing whether an accommodation would cause undue hardship: (i) cost, (ii) outside sources of funding, if any, and (iii) health and safety requirements, if any. It further states that

"health and safety risks will amount to undue hardship if the degree of risk that remains after the accommodation has been made outweigh the benefits of enhancing equality for persons with disabilities". In some circumstances, the level of care and accommodation required may exceed the resources or staffing capabilities of the University and/or may be beyond the standard of care that Student Health Services, Services for Students with Disabilities, and Personal Counselling can provide or monitor. The student has a corresponding responsibility to make full disclosure of their disability and to cooperate with the University in making appropriate accommodation for them, including advising University officials of the need for accommodation, cooperating with University officials in the accommodation process, and providing medical or other requested information relating to the disability and the required accommodation.

Process and Procedures for Responding to Students-at-Risk

40. Definition: "Student-at-risk" means any student whose physical or mental state is such that they may be or have become a threat to themselves, others, the educational process, or the Brock community in general. This state may or may not involve allegations of misconduct by the student.

41. Observance of behaviour that suggests a student is at risk should be reported to a member of the Student-at-risk Case Team and will trigger a written report, which should be sent immediately to the Student Conduct and Activities Officer. Regardless of the level of threat, the student-at-risk will be given an opportunity to review and respond to the written report. If there is a clear and imminent danger or risk, designated staff members are immediately empowered to take appropriate steps as per the Interim Conditions and Measures outlined below in sections 55 and 56.

42. Normally, within one working day of receiving a report of a student-at-risk, the Student Conduct and Activities Officer will assess the risk level in consultation with the report writer (and others involved in the case as appropriate). Response to the situation is based on the level of threat, as outlined below in sections 43-45.

43. Level 1 Threat: If the student's behaviour is assessed as a Level 1 threat, the Student Conduct and Activities Officer and/or the report writer will determine whether consultation with the Student-at-Risk Case Team is required and will determine appropriate outcomes. If consultation with the Student-at-Risk Case Team is required,

it will normally meet within five (5) working days to review the case and make recommendations regarding how to proceed. Where consultation is not required, Student Conduct and Activities Officer will update the Student-at-Risk Case Team at its next regular meeting. Possible outcomes for Level 1 threat behaviour include but are not limited to: an offer of appropriate support and/or referral, and/or campus general probation, and/or a residence behaviour contract.

44. Level 2 Threat: If the student's behaviour is assessed as a Level 2 threat, the Student Conduct and Activities Officer and/or the report writer will determine whether consultation with the Student-at-Risk Case Team is required and/or whether disciplinary procedures will be invoked to deal with the alleged misconduct. If consultation with the Student-at-Risk Case Team is required, it will normally meet within five (5) working days to review the case and make recommendations regarding how to proceed. Where consultation is not required, Student Conduct and Activities Officer will update the Student-at-Risk Case Team at its next regular meeting. Possible outcomes for Level 2 threat behaviour include but are not limited to: those outlined under Level 1 and/or referral of the case through the non-academic discipline process in accordance with the Process and Procedures for Addressing Student Misconduct and/or immediate involuntary leave above.

45. Level 3 Threat: If the student's behaviour is assessed as a Level 3 threat, the Student Conduct and Activities Officer and/or the report writer will first determine whether Interim Conditions and Measures are required to address any immediate threat to the student-at-risk, others or the larger community. Assessment of a Level 3 threat triggers the University's duty to warn and to take action to protect the student-at-risk and/or others. The University reserves the right to share information regarding the student-at-risk in order to address the immediate threat and the student's behaviour. The Student Conduct and Activities Officer will then immediately schedule a meeting of the Student-at-Risk Case Team. The Student-at-Risk Case Team will normally meet within two (2) working days to review the case and make recommendations regarding how to proceed. Possible outcomes for Level 3 threat behaviour include but are not limited to: those outlined under Levels 1 and 2, and/or immediate involuntary withdrawal from the University.

46. Involuntary Leave and Withdrawal: If the Student-at-Risk Case Team recommends involuntary leave or withdrawal, this recommendation must be presented to the Associate Vice-President, Student Services.

Involuntary leave is defined as involuntary physical removal from campus for a period of time specified by the Associate Vice-President, Student Services. Involuntary withdrawal includes involuntary physical removal from campus and academic withdrawal from the University. Involuntary withdrawal requires consultation with the Vice-President, Academic. Involuntary withdrawal may last for one academic year or longer. Involuntary leave or withdrawal is not pursued as a punitive step, but may coincide with sanctions for student misconduct.

47. Decision Notification: If the Associate Vice-President, Student Services decides to place a student-at-risk on involuntary leave or withdrawal, the student-at-risk shall be notified of that decision, together with the terms and conditions associated with the involuntary leave or withdrawal. A copy of the letter will be included in the student's record. Where involuntary withdrawal is invoked, the student-at-risk will be blocked from re-enrollment for the duration of the involuntary withdrawal. Upon notification of involuntary leave or withdrawal, the student-at-risk will also be provided with information on the Return to Campus Procedures.

48. Return to Campus Procedure for Involuntary Leave: Following an involuntary leave, the student-at-risk must apply in writing to the Student Conduct and Activities Officer in order to return to campus. The application is due no earlier than two (2) months before the student's anticipated return to campus. The application will require the following in order to be considered: evidence that all terms and conditions associated with the involuntary leave have been met, evidence that all current outstanding disciplinary sanctions have been completed, and, if applicable, an Involuntary Leave Assessment Form (Please see Forms section) completed by appropriate treating medical professional(s). The Student Conduct and Activities Officer will evaluate completed applications and their accompanying documentation and consult with the Student-at-Risk Case Team to develop a Return to Campus Management Plan. A recommendation regarding whether the student should be permitted to return to campus and any Return to Campus Management Plan shall be forwarded to the Associate Vice-President, Student Services, normally within twenty (20) working days after receipt of a completed application. During the review process, the Student Conduct and Activities Officer may require the student to provide additional, more recent documentation from treating medical professional(s). The Associate Vice-President, Student Services shall inform the student, in writing, whether the application has been approved.

49. Return to Campus Procedure for Involuntary Withdrawal: Following an involuntary withdrawal, the student-at-risk must apply in writing to the Student Conduct and Activities Officer in order to return to campus. The application is due no earlier than two (2) months before the student's anticipated return to campus. The application will require the following in order to be considered: evidence that all terms and conditions associated with the involuntary withdrawal have been met, evidence that all current outstanding disciplinary sanctions have been completed, and a Re-Enrollment Questionnaire and Treatment Summary (Please see Forms section) completed by appropriate treating medical professional(s). The Student Conduct and Activities Officer will evaluate the completed application and accompanying documentation and consult with the Student-at-Risk Case Team to develop a Return to Campus Management Plan. A recommendation regarding whether the student should be permitted to return to campus and/or re-enroll and any Return to Campus Management Plan shall be forwarded to the Associate Vice-President, Student Services, normally within twenty (20) working days after receipt of a completed application. During the review process, the Student Conduct and Activities Officer may require the student to provide additional, more recent documentation from treating medical professional(s). The Associate Vice-President, Student Services shall inform the student, in writing, whether the application has been approved.

50. Return to Campus Management Plan: Where a student has received approval to return to campus following involuntary leave or withdrawal, the Student Conduct and Activities Officer and the Student-at-Risk Case Team shall prepare a Return to Campus Management Plan that outlines any terms and conditions of the student's return to campus and any support services required. The Student Conduct and Activities Officer, or a designate from the Student-at-Risk Case Team, will implement the Return to Campus Management Plan and monitor the student's transition back to campus. The person monitoring the Return to Campus Management Plan shall regularly report the student's progress back to the Student-at-Risk Case Team. The Return to Campus Management Plan may also include the disposition of any outstanding non-academic discipline matters and/or sanctions.

51. Eligibility for Appeal: Students may appeal the decisions made under the Process and Procedures for Responding to Students-at-Risk, under the following circumstances:

- Where evidence emerges which was not available to a party at the time of the original

process

- There was clear evidence of bias
- Where the disciplinary procedures were not followed and where the outcome of the case during the original process might have been substantially affected thereby

If there are insufficient grounds for appeal, the student shall be notified in writing within ten (10) working days of having filed the request for an appeal.

52. Appeal of Level 1 Threat Outcomes: An appeal of campus general probation in response to Level 1 threat behaviour shall be made to the Associate Vice-President, Student Services. An appeal of a residence behaviour contract in response to Level 1 threat behaviour shall be made to the Director of Residences. The appeal must be signed by the student and include the grounds of the appeal.

53. Appeal of Non-Academic Discipline Sanctions Relating to Level 2 and Level 3 Threat Outcomes: Appeals of disciplinary sanctions for non-academic misconduct shall be addressed through the appeal routes set out above under Process and Procedures for Addressing Student Misconduct (sections 25-29).

54. Appeals of Involuntary Leave or Withdrawal in Response to Level 2 and 3 Threats:

- Involuntary leave or withdrawal applied by the Associate Vice-President, Student Services may be appealed to the University Appeal Board through the Office of the Vice-President, Academic.
- Appeals must be submitted in writing to the Office of the Vice-President, Academic within ten (10) working days of the student having received notification of the involuntary leave or withdrawal from the Associate Vice-President, Student Services.
- The appeal must be signed by the student and include the grounds of the appeal.
- Within ten (10) working days of accepting the grounds of an appeal, the Vice-President, Academic shall establish a University Appeal Board hearing panel and notify appropriate parties as outlined in the Policies and Procedures of the University Appeal Board.

Interim Conditions and Measures

55. Ongoing Personal Safety

In those cases where the allegations of misconduct are serious and, if proven, could constitute a significant personal safety threat to other students or members of the University community, or where a Level 3 threat is posed by a student-at risk, the Associate Vice-President, Student Services, or delegate, or Campus Security Services, is

authorized to impose interim conditions that balance the needs of the complainants or community for safety with the requirement of fairness to the respondent student or student-at-risk. Interim conditions may include: restrictions on a student's movement on campus, non-association/no contact directives, and suspension of student privileges. The interim conditions are in no way to be construed as indicative of guilt, and shall remain in place until the allegations are disposed of under the Process and Procedures for Addressing Student Misconduct and/or the Process and Procedures for Responding to Students-at-Risk.

56. Urgent Situations

In some circumstances, such as those involving serious threats or violent behaviour, it may be necessary to remove a student from the University premises. Where an investigation of misconduct has been requested and is pending, the Associate Vice-President, Student Services, or delegate, may suspend a student or students temporarily for up to three (3) working days if, in the opinion of the Associate Vice-President, Student Services, or delegate, there is reasonable apprehension that the safety of others is endangered, damage to University property is likely to occur, or the continued presence of the student(s) would be disruptive to the legitimate operations of the University. The student(s) shall be informed immediately in writing of the reasons for the suspension and shall be afforded the opportunity to respond. The Associate Vice-President, Student Services, or delegate must review any such temporary suspension, within the three-day temporary suspension period, following a preliminary investigation, and either revoke or continue. If the suspension is continued, the student(s) may appeal to the Vice-President, Academic, or delegate, who shall hear and decide on the appeal within five (5) days. Where an urgent situation arises from the Level 3 threat posed by a student-at-risk, the procedure outlined under the Process and Procedure for Responding to Students-at-Risk shall apply, regardless of whether misconduct has also occurred.

Administration of Code of Student Conduct and Disciplinary Procedures in Non-Academic Matters

57. Authority and Amendments

Amendments to this Code must be recommended to the Associate Vice-President, Student Services. The Associate Vice-President, Student Services administers non-academic student conduct policy and procedures, and chairs the University Non-Academic Discipline Advisory Committee.

The Committee meets annually, in the spring. The Committee maintains written procedures for the conduct of individual University Discipline Panel hearings and written sanction guidelines, which are reviewed and approved annually by the Associate Vice-President, Student Services. See Appendix G for further information about the University Non-Academic Discipline Advisory Committee.

58. University Discipline Panel

The University Discipline Panel hearings will normally be scheduled on a weekly basis to ensure timely attention to non-academic discipline cases. The Chair of the Panel will be a student appointed by the Associate Vice-President, Student Services from the student members of the Discipline Advisory Committee. All student members of the University Non-Academic Discipline Advisory Committee participate on the attendance roster for Discipline Panel hearings. The Student Conduct and Activities Officer serves as a voting member and senior University adviser on all University Discipline Advisory Panel hearings. The Student Conduct and Activities Officer reports statistics on the numbers of cases, outcomes and sanctions annually to the Associate Vice-President, Student Services. Please refer to Appendix A for University Discipline Panel Procedures.

59. Student Discipline Records

Records of charges and sanctions, other than suspension or expulsion, will not be placed in student academic records. Records of all University Discipline Panel decisions, including charges and sanctions, will be maintained as part of the confidential records in the Student Development Centre for a period of up to four (4) years after the student graduates or ceases to be a student.

STUDENT FINANCIAL INFORMATION

FEES

Student fees that may be assessed through your financial account with the University will include but may not necessarily be limited to the following basic fee categories:

Tuition is assessed at differentiated rates between: (a) first and continuing year of study, (b) “arts, science and other programs” and “professional undergraduate programs” (business and computer science) and (c) international (visa) students.

Ancillary Fees are assessed on a per credit and sessional basis. Most ancillary fees are mandatory. These fees are governed by an Ancillary Fee Protocol established between the University and the Students’ Union. These fees are either administered by the University or by the Students’ Union.

Course Specific Fees may be charged by the University for the reasonable cost of such things as field trips, learning material and clothing retained by the student. Please consult course descriptions to identify if course specific fees apply.

Miscellaneous Fees or administrative fees are fees for service and may be incurred by a student as a result of a request or action.

Residence and Meal Plan Fees vary depending on the residence assigned and type of room. Meal plans are mandatory for certain residence facilities. For details consult the Residence website at <http://www.brocku.ca/residence/admissions/fees>

For specific details of these fees, please consult the Financial Services website (www.brocku.ca/finance) under the “Student Accounts Finance Office”.

Other Fee Related Information

Details on other fee related information such as payment instructions, payment due dates, methods of payment, withdrawal and refund schedules, as well as “frequently asked questions” can be found on the Financial Services website under the “Student Accounts Finance Office”.

It is important to familiarize yourself with the information contained in the “Student Accounts Finance Office” website to ensure that you are aware of payment dates and of the consequences of not meeting your payment obligations.

As well as our website, the Student Accounts Finance Office staff are available to provide assistance. The following is our location and contact information.

STUDENT ACCOUNTS FINANCE OFFICE

Location: 12th Floor of the Schmon Tower
Office Hours: Monday to Friday 8:45 am to 4:00 pm
Phone: 905-688-5550, Ext. 4600
Fax: 905-984-4844

e-mail: finance@brocku.ca

Website: www.brocku.ca/finance

Please note that when calling for information, due to privacy regulations, we can only release information to the student, regardless of who paid the tuition.

The Student Accounts Finance Office communicates to students mainly through e-mail. It is therefore very important for students to check their Brock e-mail regularly, even during the summer months, for messages and notices from the Student Accounts Finance Office regarding their financial account.

Scholarships, Bursaries, Awards and Financial Assistance

Scholarships

Students need not apply for scholarships administered by the University unless otherwise indicated. Scholarships and awards are allocated at the discretion of the Senate Committee on Undergraduate Student Affairs. In order to ensure equitable distribution of funds, the Committee reserves the right to limit the cumulative monetary value of scholarships and awards that any one student may receive.

Normally, to be eligible for awards other than an entrance scholarship, a student must be presently registered full-time at Brock and have successfully completed four or more credits in the previous Fall/Winter Session. Students with special needs, who are full-time but carrying fewer than four credits because of the impact of a disability, are also eligible for scholarships, as recommended by the Associate Vice-President (Student Services). Awards based on donations cannot be guaranteed by the University and can only be forwarded after the funds have been received from the donor. A student who withdraws from the University will have their scholarship pro-rated.

Please note: An asterisk (*) appears beside the value of an endowed scholarship. The figure shown is the amount awarded last year. The value will vary from year to year depending upon income earned by the endowment.

Please visit <http://www.brocku.ca/studentawards/> for more information.

Entrance Scholarships for New/Entering Students

All applicants, who have not previously attended a post-secondary institution and who apply for full-time study at the University on the basis of an OSSD, are automatically considered for Brock Entrance Scholars Awards. Entrance scholarships are awarded on the basis of the six grade 12 U or M courses used to establish the student's final admission average and are subject to the availability of funds.

The minimum average required for the awarding of a scholarship is determined each year by the Senate Committee on Undergraduate Student Affairs. Notification of an award is made together with the offer of admission.

Brock Entrance Scholars Award

Awarded to entering students with no previous post-secondary experience. Initial offers are made based on secondary school grades available at the time of admission. The offers are reviewed when final grades are submitted and will be altered if the final average falls into a new category. Students must also submit a Student Profile before the final award is made. Scholarship values for 2007 entry are:

- \$14,000 (renewable \$3500 per year**) for averages 93.0 percent+
- \$8,000 (renewable \$2000 per year**) for averages 90.0 percent – 92.9 percent
- \$4,000 (renewable \$1000 per year**) for averages 85.0 percent – 89.9 percent
- \$2,500 (\$1000 in year one, \$500 renewable in each of the next three years**) for averages 80.0 percent – 84.9 percent

**Renewable if student maintains an 80.0 percent average on a minimum of 4.0 credits in the Fall/Winter session. Students pursuing a pass degree will be considered for two consecutive renewals only.

In-Course Scholarships for Returning Students

To be considered for Brock Returning Scholars Awards and a number of donor in-course scholarships, students must normally have completed four credits or more in the previous Fall/Winter Session with an overall average of 80.0 percent. Students with special needs who are full-time but carrying fewer than four credits because of the impact of a disability, as recommended by the Associate Vice-President (Student Services) are also eligible for in-course scholarships. The minimum average required for the awarding of Brock Returning Scholars Awards is determined each year by the Senate Committee on Undergraduate Student Affairs.

Brock Returning Scholars Award

Awarded to continuing full-time undergraduate students who have attained a minimum of 80.0 percent on 4.0 or more credits in the previous Fall and Winter Sessions.

- \$1500 for averages over 93.9 percent
- \$1000 for averages above 89.9 percent
- \$550 for averages above 84.9 percent
- \$350 for averages above 79.9 percent

*Students receiving a renewal of a Brock Scholars Award will not receive a Returning Scholars Award.

Bursaries

Bursary funds are never adequate to provide full support or even a major part of support for students. Rather, bursaries are intended to assist students whose personal resources (including eligibility for loans) are normally adequate or nearly so, but whose immediate circumstances have created a financial crisis or limited shortage. All students who are eligible to do so, are expected to have applied for assistance under the Ontario Student Assistance Program (OSAP) and to have accepted all loans granted under that program. Acceptance of a bursary implies the commitment of the recipient to complete the current academic year. A student who withdraws from the University will have their bursary pro-rated.

Please note: An asterisk (*) appears beside the value of an endowed bursary. The figure shown is the amount awarded last year. The value will vary from year to year depending upon the income earned by the endowment.

Bursaries are granted for the current academic year and applications may be submitted at anytime during the term. To be considered for some donor bursaries, applications must be submitted by October 15 except where otherwise noted.

Bursary applications are available on the Student Awards and Financial Aid website at <http://www.brocku.ca/studentawards/>.

Brock University General Bursary Assistance

Application Required

Value: Varies. Students may apply for emergency bursary assistance based solely on financial need. You are required to:

- Complete a web bursary application form;
- Be currently registered for courses at Brock University;
- Be in satisfactory academic standing (i.e., not on probation).

Applications for Fall accepted beginning August 1 of each year.

Dean's Honours List

Students are placed on The Deans' Honours List if they have completed 5 credits with an average of 80 percent on those credits. The student will be considered for the Dean's Honours List recognition when the 5, 10, 15 and 20 credit level is surpassed. All credits within the milestone must be completed at Brock (ie no transfer courses). Only

undergraduate degree credits are used in the calculation of the milestone.

Distinguished Graduating Student Award
Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon. To receive the distinction a student must meet the minimum requirements for first-class honours standing (80% Major/70% non-major avg); except for the Faculty of Education, which is selected by the Department. One award for each academic department, in the Faculty of Education, one award each for primary/junior, junior/intermediate, intermediate/senior streams. Combined majors are eligible for both departments.

Governor General's Silver Medal

Awarded to two students graduating with the highest cumulative overall averages. Graduates from the Fall and previous Spring Convocation are eligible. A minimum of 10 credits must be completed at Brock University and the graduate must be receiving their first honours degree.

Listing of Awards – by Faculty

FACULTY: ANY

Department: Any

40th Anniversary Tribute Award

Award Type: Entrance Award - Application Required

Value: varies. Awarded annually to a deserving student, entering Brock University. The successful student must demonstrate outstanding academics. He/She will also demonstrate financial need and meet Ontario residency requirements.

Donor: Brock Alumni and Friends of the University
Established: 2004

40th Anniversary Twinning St. Catharines and Port of Spain Scholarship

Award Type: Entrance Scholarship - Application Required

Value: Varies. Awarded to one student citizen and resident of Trinidad and Tobago wishing to pursue an undergraduate degree program commencing in the autumn term of 2009. Students must demonstrate academic merit (minimum 75%). The University will meet the tuition fees of the scholarship holder. The student is required to meet all other financial costs of living in Canada; these include such things as: return air fare, accommodations, meals, test books, and miscellaneous living

expenses. The successful applicant for this award must be able to obtain a Study Permit to study in Canada.

Donor: Brock University
Established: 2008

A Stoddard Jones Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$2100*. Awarded as an entrance scholarship on the basis of academic merit. The award is renewable contingent on the student remaining in good standing in the University. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Mr. and Mrs. A. Stoddard Jones
Established: 1998
Endowed: 1998

Alumni Scholarships

Award Type: In-Course Scholarship -

Value: Varies. Award amount to be divided at the discretion of Senate, to upper-year students with records of academic excellence. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock University Alumni Association
Established: 1985

Annette Dillon Urlocker Bursary

Award Type: In-Course Bursary - Application Required

Value: \$475* Awarded annually to a student in any year of study. The recipient will be a female student raising children and completing her degree on a part-time basis. The successful student must demonstrate financial need and meet Ontario residency requirements

Donor: Annette Dillion Urlocker
Established: 2005
Endowed: 2005

Anne and Nicholas Kushner Bursary

Award Type: In-Course Bursary - Application Required

Value: \$435*. Awarded to a first year student from the District Board of Ontario North East, the North-eastern Catholic District School Board or the conseil de district catholique des Grands Rivières. Should no qualified students apply, the award may be given to any first year student from Northern Ontario. Applicants must demonstrate financial need.

Donor: Dr. Joseph Kushner
Established: 2001

Athletic Excellence Award

Award Type: Entrance-

Value: \$2000. Awarded to students entering Brock University in any program of study. One male and one female recipient are selected annually for each of the following

varsity athletic programs: Basketball, Hockey, Rowing, Soccer and Wrestling. Selection is based on a recommendation from the Director of Athletics and the head coach of one of the teams listed above. Students must have a minimum 80% admission average, must enroll in at least 3.0 credits at Brock University in the Fall/Winter session, and be named to the final roster of a varsity sports team. This award is in addition to any other awards you have been offered.

Donor: Brock University
Established: 2007

Auguste E. Schmid Bursary

Award Type: In-Course Bursary - Application Required

Value: \$480*. Awarded annually toward the end of the academic year, by application, to a student in good standing. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Family of Auguste E. Schmid
Established: 1997
Endowed: 1997

Award for Métis Students

Award Type: In-Course Bursary - Application Required

Value: Varies. Awarded to aboriginal students who are members of the Métis community and can demonstrate financial need. Applicants for the award must also complete a Métis Application for Post-Secondary Assistance Form and meet Ontario residency requirements.

Donor: Métis Nation of Ontario
Established: 1997
Endowed: 1999

Badger Award for Leadership in Extracurricular Activities

Award Type: In-Course Award - Application Required

Established in memory of Victoria Catherine Hull, this award (a watch) is intended to honour graduating students who have demonstrated outstanding leadership qualities in their involvement in the extracurricular life of the University while maintaining an above-average academic standing. Nomination forms are available at the Alumni Office. Deadline for nominations is March 1. Awarded only after Spring Convocation.

Donor: The family and friends of Victoria Catherine Hull.
Established: 1987

Barkley's of Avonmore Bursary

Award Type: Entrance Bursary - Application Required

Value: \$400*. Awarded as entrance bursaries to deserving students, with preference for students from the Third world. Applicants

must demonstrate financial need.
Donor: Mr. & Mrs. Fred Barkley
Established: 1980
Endowed: 1980

Bev McCollom Memorial Award
Award Type: In-Course Award - Application Required
Value: \$1000*. Awarded to a member of the Brock University interuniversity hockey team who has attained a minimum 70 percent average the previous year at Brock, and displays a high level of dedication and commitment to the Brock interuniversity hockey program. Selection of the recipient will be determined by a committee appointed by the Brock Hockey Alumni and be recommended to the Brock University Scholarships Office. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: The Brock University Hockey Alumni in the memory of Bev McCollom.
Established: 1999
Endowed: 1999

Birks Family Foundation Bursary
Award Type: In-Course Bursary - Application Required
Value: \$1000*. Awarded by the Foundation on the recommendation of the University Bursary Officer, these bursaries are not restricted to faculty or year and may be renewed. Applicants must demonstrate financial need. To renew the recipient must maintain an average of 75% in 4 credits.
Established: 1968
Donor: Birks Family Foundation

Birks Family Foundation Scholarship
Award Type: In-Course Scholarship
Value: \$660*. Awarded to outstanding students at the discretion of Senate.
Donor: Birks Family Foundation
Established: 1968
Endowed: 1968

Board of Trustees Spirit of Brock Medal
Award Type: In-course-Application Required
The Brock University Board of Trustees has provided the Board of Trustees Spirit of Brock Medal for graduating students who best exemplify Sir Isaac Brock's spirit. The Chair of the Board of Trustees or designate will present the medals at convocation ceremonies. Students must fill out an application found on the Brock University Student Award Website, and deliver it to the student Awards Office by the deadline below. Applications must be received by:
Fall Convocation: First Friday in September
Spring Convocation: First Friday in May.
Donor: The Brock University Board of Trustees
Established: 2007

Branscombe Family Foundation Bursaries
Award Type: In-Course Bursary - Application Required
Value: \$865*. To provide five annual awards to Canadian students of Black ancestry. Applicants must demonstrate financial need, satisfactory academic performance and meet Ontario residency requirements. Students receiving other scholarship awards from the Branscombe Family Foundation will not be eligible for these awards.
Donor: The Branscombe Family Foundation
Established: 1997
Endowed: 1997

Branscombe Family Foundation (OSOTF) Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$1000* Awarded to five outstanding students entering Brock University. Students must demonstrate academic merit, financial need and meet Ontario residency requirements.
Donor: The Branscombe Family Foundation
Established: 2003

Brock Aboriginal Achievement Award
Award Type: In-course
The Aboriginal Achievement Award is given to two Brock University students (one undergraduate, one graduate) with a holistic excellence of involvement. The recipient of the honour will be a student with:
-a high level of academic achievement
-a high level of community activity
-high level of Brock involvement
Contact Sean Hoogterp in Aboriginal Student Services
Donor: Aboriginal Student Services
Established: 2002

Brock Alumni Honours Bursary
Award Type: In-Course Bursary - Application Required
Value: \$1900*. Two awards will be made annually to honours students (students in their 4th year) in any discipline. Preference will be given each year to one qualified Brock University Student Ambassador applicant. Applicants must demonstrate financial need and meet Ontario residency requirements to be eligible for this bursary.
Donor: Alumni supporting Brock University Alumni Affinity Programs and the TeleGrad Annual Giving Program.
Established: 2002
Endowed: 2002

Brock Alumni Honours Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$850*. Four awards will be made annually to honours students entering their

4th year of study, in any discipline based on academic achievement. Applicants must demonstrate financial need and meet Ontario residency requirements to be eligible for this scholarship.
Donor: Alumni supporting Brock University Alumni Affinity Programs and the TeleGrad Annual Giving Program.
Established: 2003

Brock Guernsey Undergraduate Scholarship
Award Type: Entrance Scholarship
Awarded to a student who ordinarily resides in Guernsey, Herm or Alderney who has attained an exceptional level of academic accomplishment in secondary school or undergraduate university study. Students will be nominated by the States Education Council of Guernsey and confirmed by the Student Awards and Financial Aid Office of Brock University. The award will be renewable upon demonstration of satisfactory academic standing (minimum 75% average at Brock).
Donor: Brock University
Established: 2001

Brock International Baccalaureate (IB) Scholars Award
Award Type: Entrance Scholarship
Awarded to entering students who have completed an IB diploma. This award is open to students from all countries and provinces. Students must register for full-time study at Brock University to be eligible.

Brock National Leaders Award
Award Type: Entrance Scholarship - Application Required
Brock Leaders Awards recognize a combination of high academic achievement with personal leadership abilities. Entering students who have an 80% average or higher and have demonstrated excellence in fine arts, writing, debating, science, extracurricular activities and/or significant citizenship contributions to community, will be considered for this award.

Brock Pride Award
Award Type: In-Course Award - Application Required
Value: \$200*. Awarded annually to a Brock student in any year of study who has made a positive contribution to the gay, queer, questioning, bisexual, lesbian, two-spirited and/or trans (GQBLT) community (-ies). The award will be made on these terms based on the recommendation of the Manager, Student Awards.
Donor: Brock Pride
Established: 1999

Brock Student Ambassador Bursary
Award Type: In-course-Application Required
Value: \$1100. The bursary will be awarded annually to a Brock University student.

Preference will be given to an active member of the Brock Student Ambassador program who has made a meaningful contribution to the development of extracurricular life both on-campus and in the broader community; locally, regionally or nationally, through volunteering in those communities. The candidate shall also have achieved a minimum 70% cumulative average. Should no Brock Student Ambassadors qualify in any given year, then the award will be made to a Brock student from any other constituency meeting the requirements. The successful recipient must demonstrate financial need and meet Ontario residency requirements.
Donor: Brock Student Ambassadors through Alumni Advancement
Established: 2005

Brock Undergraduate Student Research Award (BUSRA)

Award Type: In-course- Application Required
Value: \$3250. The Brock University Student Research Awards (BUSRA) are meant to stimulate undergraduate student interest in research in the natural and applied sciences. They are also meant to encourage undergraduate students to undertake graduate studies and pursue a research career in these fields. If you would like to gain research experience while attending Brock University, these awards can provide you with financial support. Female and Aboriginal students are strongly encouraged to apply to this program.

To be eligible to apply for an award, you must:
-be a Canadian citizen or permanent resident of Canada, and;
-be registered (at the time you apply) as a full-time student in a bachelor's degree program at Brock in the natural and applied sciences. For more information/ to apply please visit: <http://www.brocku.ca/researchservices/funding/internal/busra.php>

Please contact Hitesh Jain for more information at Hitesh.jain@brocku.ca
Donor: Brock University
Established: 2003

Brock University Alumni Association Entrance Award

Award Type: Entrance Scholarship - Application Required
Value: \$500. Awarded annually to a child or sibling of a Brock University Alumni Association member entering Brock University in a first undergraduate degree. The recipient must demonstrate leadership within community and possess a minimum 75% admission average.
Donor: Brock University Alumni Association
Established: 2004

Brock University Alumni Association Student Award

Award Type: In-Course Scholarship - Application Required

Value: \$500*. Awarded to a full- or part-time student, who has completed at least ten credits at Brock University with a minimum B average, and who has made a meaningful contribution to extracurricular life in the Brock community. This award is by application or nomination to the Alumni Association. Forms are available from the Alumni Office, Thistle 265.

Donor: Brock University Alumni Association
Established: 1974

Brock University- Big Brothers Big Sisters of Niagara Award

Award Type: Entrance- Application Required
Value: \$2000. The Brock University- Big Brothers Big Sisters of Niagara Award is awarded annually to two entering students who have been part of the BBBS in the Niagara Region. Students are required to apply to Brock University through the Ontario University Application Center (www.ouac.on.ca) as well as completed the Brock University- Big Brothers Big Sisters of Niagara Award application. Applications are downloadable through our website: <http://www.brocku.ca/safa/forms/Brock-BBSApplication.pdf>

Donor: Brock University
Established: 2006

Brock University Co-op Bursary

Award Type: In-Course Bursary - Application Required
Value: up to \$2000, depending on need. Students may apply for this bursary if they are participating in a placement co-ordinated by the Co-op Programs Office. Students must demonstrate financial need and meet Ontario residency requirements. Applications are available from the Co-op Programs Offices and in the Student Awards and Financial Aid Office.
Established: 2001

Brock University- Council of International Schools (CIS) Scholarship

Award Type: Entrance Scholarship - Application Required
Value: \$3000
Awarded annually to an entering undergraduate student from an CIS regular member school with demonstrated academic excellence and community involvement.
Donor: Brock University
Established: 2005

Brock University- Doon School Scholarship

Award Type: Entrance Scholarship- Application Required
Value: \$7000*. Awarded annually to entering students from Doon School interested in pursuing a degree at Brock University. The scholarship is renewable for up to three years, if a minimum "B" average is maintained. The award is valued at approximately \$7000 CDN and reduces the tuition fees paid

equivalent to domestic fees.

All students will be required to apply to Brock University through the Ontario University Application Center (www.ouac.on.ca) and print and attach a copy of their OUAC 105F application for Student Awards. The OUAC 105F and scholarship application must be forwarded to Brock University Student Awards and include: an official copy of the student's transcript or report card, a letter of recommendation from the Head of Guidance, and a letter detailing the students background, interests and academic aspirations.

Donor: Brock University
Established: 2006

Brock University Entrance Bursary

Award Type: Entrance Bursary - Application Required
Value: \$1250. Awarded to entering undergraduate students on the basis of financial need. Applicants must meet Ontario residency requirements. The award is tenable upon full-time registration. Students must complete a financial profile and have an admission average of over 75 percent.
Established: 1996

Brock University Exchange Program Bursary

Award Type: In-Course Bursary - Application Required
Value: varies. Students may apply for this bursary if they are planning to study abroad via student exchange programs administered by the Office of International Services. Students must be residents of Ontario as deemed by the Ontario Student Assistance Program and have satisfactory academic standing. Applicants must demonstrate financial need.

Brock University International Student Bursary

Award Type: In-Course Bursary - Application Required
Awarded to students at Brock University studying on a student visa on the basis of financial need. Applicants must be full-time undergraduate students seeking their first degree. Financial need will be determined by the completion of our on-line bursary application. Applicants must indicate the reason for their shortfall of funds in the comment section of the application, highlighting any changes in their financial position. Preference will be given to applicants in their third or fourth academic year.

Brock University - Kodaikanal School Scholarship

Award Type: Entrance Scholarship - Application Required
Value: \$7000*. Awarded annually to entering students from Kodaikanal School interested in pursuing a degree in sciences at Brock

University. The scholarship is renewable for up to 3 additional years, if a minimum "B" average is maintained. The award is valued at approximately \$7,000 CDN and reduces the tuition fees paid equivalent to domestic fees.

Donor: Brock University
Established: 2006

Brock University President's Golf Tournament Award

Award Type: In-Course Award
Value: varies. Number awarded: varies. Awarded annually to members in good standing of a varsity team who have achieved a minimum sessional average of 70 percent. Candidates must be returning student athletes who have completed a minimum of 3 credits in the previous academic year. The value of the award will be established annually but may not exceed the maximum established by the OUA (currently \$3,500).

Donor: Supported by proceeds from the President's Annual Invitational Golf Tournament
Established: 2003

Brock University President's Golf Tournament In-Course Award

Award Type: In-course
Value: varies. Awarded annually to members in good standing of a varsity team who have achieved a minimum Fall/Winter sessional average of 70%. Candidates must be returning student athletes who have completed a minimum of 3 credits in the previous academic year. The value of the award will be established annually but may not exceed the maximum established by the OUA (currently \$3500)

Donor: The President's Annual Invitational Golf Tournament
Established: 2003

Brock University - Woodstock School Scholarship

Award Type: Entrance Scholarship - Application Required
Value: \$7000*. Awarded annually to entering students from Woodstock School (Mussorie, India) interested in pursuing a degree in sciences at Brock University. The scholarship is renewable for up to 3 additional years, if a minimum "B" average is maintained. The award is valued at approximately \$7,000 CDN and reduces the tuition fees paid equivalent to domestic fees.

Donor: Brock University
Established: 2006

Brock Student Ambassador Bursary

Award Type: In-Course Bursary - Application Required
Value: varies. Preference will be given to an active member of the Brock Student Ambassador program who has made a meaningful contribution to the development of extracurricular life both on-campus and

in the broader community; locally, regionally or nationally, through volunteering in those communities. The candidate shall also have achieved a minimum 75 percent cumulative average. Should no Brock Student Ambassadors qualify in any given year, then the award will be made to a Brock student from any other constituency meeting the requirements. The successful recipient must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock Student Ambassadors through Alumni Advancement
Established: 2005

Brock University Intramural Award

Award Type: In-Course Award - Application Required

Value: \$1000*. Awarded annually to current intramural student-staff members with at least one previous year of intramural involvement. Recipients must have completed at least 4.0 credits and be registered as a full-time undergraduate student in any Faculty. Successful candidates must also demonstrate financial need have satisfactory academic standing.

Recipients will be recommended by a committee chaired by the Coordinator, Intramural Programs, Department of Recreation Services. Consideration is based on demonstration of enthusiasm and commitment to the Brock University Intramural Program. The selected candidate will show that they are active in areas such as:

- community involvement (e.g. clubs, BUSU, SNAP)
- professional development
- volunteer experience on and off campus
- academic achievements
- athletic achievements

Donor: Former Participants in the Brock University Intramural Program
Established: 2006

Brock University Student Union Bursary

Award Type: In-Course Bursary - Application Required
Value: \$400*. To be awarded to a student in financial need. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock University Student Union
Established: 1997
Endowed: 1997

Brock University Student-Athletics Bursary

Award Type: In-Course Bursary - Application Required
Value: up to \$1500, depending on need. Awarded to students participating in a Brock University Inter-university Athletic program. Students must demonstrate financial need and meet Ontario residency requirements.

Brock Women's Hockey Leadership Award

Award Type: In-Course Award - Application Required
Value: \$500. Awarded annually to members of the Brock University Women's Hockey team, for leadership and dedication to the team. Recipient must have a minimum average of 75 percent to be eligible for this award. Financial need may also be considered when determining the recipients of the award. Donor: This award is made possible through the proceeds from the Alphies Invitational Golf Tournament.
Established: 2002

Burgoyne Family Scholarships

Award Type: In-Course Scholarship - Application Required

Value: \$4400* each. To support five students who are residents of Niagara. A minimum of two recipients will be enrolled in a program. The awards will be entrance scholarships, which will be renewable to graduation conditional on the above conditions and maintaining a minimum average of 75 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Burgoyne Holdings Limited
Established: 1996
Endowed: 1996

C. Boyd Slemon Scholarship

Award Type: Entrance Scholarship
Value: \$2800. Awarded to the incoming first-year student with the highest average.

C. Bruce Hill Scholarship

Award Type: Entrance Scholarship
Value: \$2800*. Awarded to the incoming first-year student with an outstanding academic average.

Campus Recreation Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1000*. To be awarded annually to one or more students who have worked in the Campus Recreation Program for a minimum of two years. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Campus Recreation Students and Staff of 1995-1997
Established: 1997
Endowed: 1997

Campus Recreation Jubilee Award

Award Type: In-Course Award - Application Required

Value: \$145. Divided between two deserving participants (1 male and 1 female) in the campus recreation program.

Donor: 1989-90 Campus Recreation Staff
Established: 1990
Endowed: 1990

Canadian Federation of University Women (Niagara Falls Branch) Scholarships Trust Fund Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500. Awarded to a 'mature' female student, who is from the city of Niagara Falls. The award will be made on these terms by the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer.

Donor: Canadian Federation of University Women (Niagara Falls Branch)
Established: 2002

Canadian Federation of University Women (St. Catharines Branch) Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500. To provide assistance to a mature female student, who is continuing her interrupted education on a part-time basis, and who is in need of financial assistance.

Donor: Canadian Federation of University Women, St. Catharines Chapter.
Established: 1987

Columbia International College Entrance Scholarship

Award Type: Entrance

Value: \$3500. The entering student with an outstanding academic admission average from The Columbia International College. Students must have a minimum of 80% to qualify. This scholarship would replace the Brock Entrance Scholarship and may be renewable, at a lower value, if the student enters with a 90% average or higher. To renew the student must maintain an 80% average or higher in 4 credits.

Donor: Brock University
Established: 1998

Critelli Family Bursary

Award Type: In-Course Bursary - Application Required

Value: \$300*. Awarded to an upper year student on the Women's Varsity Basketball Team. Applicants must demonstrate satisfactory academic standing, financial need and meet Ontario residency requirements. Preference will be given to applicants who have not been previous recipients. Selection will be determined by the Senate Committee of Undergraduate Student Affairs.

Donor: Mr. Tom and Mrs. Zan Critelli
Established: 2001

CUPE Local 1295 Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1000. Awarded to a son or daughter of a member of CUPE Local 1295 who demonstrates financial need. Deadline date February 1.

Donor: CUPE Local 1295
Established: 1987

David S. Howes Athletics Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1000* each. To be awarded, by application, to each of two returning students who are varsity athletes and have a minimum average of 75 percent. Renewable upon maintaining an academic average of 75 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: David S. Howes
Established: 1996
Endowed: 1996

Donohue QUNO Scholarship

Award Type: In-Course Scholarship

Value: \$900*. Awarded to an outstanding student, who is a graduate of a Niagara Region high school and who is presently enrolled full-time in an undergraduate degree program. Awarded \$900 in the first year, \$700 in each of the three remaining years.

Donor: Niagara/Baie Comeau Community Foundation
Established: 1967

Dr. Alan Earp Alumni Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$500*. Awarded to a student with a record of academic excellence. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock University and the Brock University Alumni Association
Established: 1988

Dr. Alan Earp Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$3400*. Awarded annually to a Brock University student who is entering third- or fourth-year of any program and who has demonstrated academic excellence. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Friends and colleagues of Dr. Alan Earp
Established: 1996
Endowed: 1996

Dr. G.C. Shaver Scholarship

Award Type: Entrance Scholarship

Value: \$2800. Awarded to the incoming first-year student with an outstanding academic average.

Dr. L. R. Wilson Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1000*. Awarded annually, to a Brock University student of satisfactory academic standing who demonstrates financial need. The recipient must also meet Ontario

residency requirements.

Donor: The Wilson Foundation
Established: 2005
Endowed: 2005

Edith and Bernard Ennis Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$2100*. Awarded annually by application to any student who is a graduate of a Welland Public Secondary School (Welland Centennial Secondary School, Welland Eastdale Secondary School and École Secondaire Confederation) and who is entering their first-year in any program. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Edith and Bernard Ennis Foundation
Established: 1997
Endowed: 1997

Enbridge Aboriginal Bursary

Award Type: Entrance Bursary - Application Required

Value: \$2275*. Awarded annually to an Aboriginal student entering first year studies. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Enbridge Consumers Gas, Toronto.

Frederick H. Casler Memorial Awards in Greek and Latin

Award Type: Graduating Award - Application Required

Two awards annually to a graduating student studying Ancient Greek or Latin. The student need not be a Classics major. Student must be an Ontario resident and demonstrate financial need.

Award #1- graduating student with a high standing in Ancient Greek.

Award #2 - graduating student with a high standing in Latin.

Donor: Students and Colleagues of Fred Casler

Established: 2004

Front Row Sports Award

Award Type: In-Course Award - Application Required

Value: \$1000. To be awarded annually, by application to a member of the Brock Interuniversity hockey team. Candidate must be a returning student-athlete who has attained a minimum average of 75 percent in their previous year at Brock and have a history of participation in hockey in the Region of Niagara.

Donor: Front Row Sports
Established: 2001

Grantham High School Alumni Award

Award Type: Entrance Award - Application Required

Value: \$1000*. Awarded annually to a student who is a graduate of Governor Simcoe Secondary High School who is entering Brock in any field of study. Applicants must

demonstrate academic merit, participation in school activities and financial need.

Donor: Grantham High School Alumni

Established: 2003

Endowed: 2004

Henley Honda Athletics Award

Award Type: Entrance and In-Course Award
Awarded to either an entering or current Brock University Athlete. For students enter Brock University the award is for students entering any program of study. Selection is based on a recommendation from the Director of Athletes and the head coach of a varsity athletic team. Students must have a minimum 80% admission average, must enroll in at least 3.0 credits at Brock University in the Fall/Winter sessions, and be named to the final roster of a varsity sports team. This award is in addition to any other awards you have been offered.

For students who are currently Brock University Athletes the award is awarded annually to members in good standing of a varsity team who have achieved a minimum Fall/Winter sessional average of 70%. Candidates must be returning to student athletes who have completed at least 3.0 credits in the previous academic year. The value of the award will be established annually but may never exceed the maximum established by the OUA (currently \$3500)

Donor: Henley Honda Inc.

Established: 2009

H. H. Knoll Scholarships

Award Type: Entrance Award - Application Required

Value: \$1000* **Number awarded:** varies. Awarded to students entering undergraduate programs, who are graduates of secondary schools in the Niagara Region. Preference will be given to students from the greater Port Colborne area (graduates of Lakeshore Catholic High School and Port Colborne High School).

Donor: The family of H. H. Knoll

Established: 1989

Endowed: 1989

Halia Jordan Memorial Book Prize

Award Type: In-Course Prize

Value: \$100*. Awarded each fall to a deserving international student. The successful recipient must be in good academic standing and demonstrate financial need.

Donor: Friends of the late Mrs. D. L. Jordan

Established: 1986

Endowed: 1986

Harrison-Thompson Bursary Trust

Award Type: In-Course Bursary - Application Required

Awarded to under-graduate students in any of the following Facilities of study: Applied Health Sciences, Humanities, Mathematics and Science or Social Sciences. Bursaries are

allocated on the basis of financial need and academic excellence (minimum cumulative average of 75%), and may be renewable based on the same. Applicants must be residents of Ontario.

Donor: The Estate of G. Bernard W. Harrison

Established: 2003

Endowed: 2004

Hodgson Volleyball Award

Award Type: In-Course Award - Application Required

Value: varies. Awarded to two students attending Brock University who are members of the Womens Inter-University volleyball program, and who have attained an average of 75% and above in the previous year. The students must display a high level of dedication to the program. Please contact the Coach of the Volleyball team for an application.

Donor: Lucas and Erin Hodgson

Established: 2006

Invest in Brock Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$900*. To be awarded to an entering student who has demonstrated high academic achievement. Applicants must also demonstrate financial need and meet Ontario residency requirements.

Donor: Brock Faculty & Staff, through the Invest in Brock Campaign

Established: 2004

Invest in Quality Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1100*each. Entrance award to a male and a female student with significant academic achievement. (minimum 75% average).

Donor: Brock Faculty and Staff through their generous support of the Invest in Quality Campaign

(2000 - 2005)

Established: 2001

Endowed: 2001

James A. Gibson Library Bursary

Award Type: In-Course Bursary - Application Required

Value: \$380*. Awarded to a deserving student. Applicants must demonstrate financial need, be in good academic standing and meet Ontario residency requirements to be eligible for this bursary.

Donor: James A. Gibson Library Staff and Friends

Established: 1996

Endowed: 1996

James and Margaret Auld Memorial Bursary
Award Type: In-Course Bursary - Application Required

Value: \$500. Awarded annually to a student

in any year of the Humanities and/or Social Sciences faculties at Brock who demonstrates financial need. Selection will be determined by the Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer.

James Papple International Book Bursary

Award Type: In-course-Application Required
Value: \$100. To be awarded to an international student who has demonstrated financial need.

Jim Gayman Bursary

Award Type: In-Course Bursary - Application Required

Value: \$100*. Awarded to a student living in residence. Applicants must demonstrate financial need.

Donor: Brock University Alumni Association

Established: 1981

Endowed: 1981

John and May Ella Houghton Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$2300*. Awarded to an entering student, with outstanding academics. Candidate must demonstrate financial need and meet Ontario residency requirements.

Donor: John and May Ella Houghton

Established: 1996

John Clout Memorial Award

Award Type: Entrance Award - Application Required

Awarded annually to entering, first-year students on the basis of outstanding community involvement. Children of CAW members are eligible, with preference to children of CAW Local 199 members. It is the donors wishes that the award be alternated between male and female recipients.

Donor: Canadian Auto Workers, Local 199

Established: 2002

John Deere Foundation of Canada Bursary

Award Type: In-Course Bursary - Application Required

Value: \$450*. Awarded to applicants who demonstrate financial need and meet Ontario residency requirements.

Donor: John Deere Foundation

Established: 1997

Endowed: 1997

John W. Bean and Kathryn Bean Becker Bursaries

Award Type: In-Course Bursary - Application Required

Value: Varies. Awarded to students in financial need who have completed one year of study. Bursary applications should be accompanied by a letter of reference from a faculty member showing the student's diligence and industriousness.

Donor: The estate of John W. Bean and

Kathryn Bean-Becker
Award Type: In-Course Bursary - Application Required
Value: \$600*. Awarded to a full-time student. Candidates must demonstrate financial need and Ontario residency requirements.
Donor: Miss June Munro
Established: 2005
Endowed: 2006

June Munro Bursary
Award Type: Entrance Scholarship - Application Required
Value: \$1500*. To be awarded annually, by application to a first-year student who is a resident of Niagara Falls. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Can Mar Manufacturing Inc.
Established: 1997
Endowed: 1997

Kerrio Family Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$500*. Awarded annually to an undergraduate student who has utilized library resources. Selection of the recipient will be made through the submission of a 500-750 word essay describing how you found and used library resources for any paper written for a Brock University course. The winner will be selected based on how well the searching process was described, a description of the sources used, and evidence of learning. Selection will be based on recommendation from the Library Award Research Committee. The essay must be accompanied by a copy of the paper and an application form. Applications can be found online at: www.library.brocku.ca/researchaward/php or in person at the Research Help Desk (6th Floor, Library). For further information feel free to contact: Karen Bordonaro: kbordonaro@brocku.ca
Donor: James A. Gibson Library
Established: 2007

L & E Hodgson Women's Volleyball Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$1000*. Awarded to a student with an outstanding record of merit entering an undergraduate program.
Donor: Brock University Faculty and Staff
Established: 1993
Endowed: 1996

Lasting Impression Entrance Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$1000*. Awarded to a student with an outstanding record of merit entering an undergraduate program.
Donor: Brock University Faculty and Staff
Established: 1993
Endowed: 1996

Lasting Impression Part-Time Scholarship
Award Type: In-Course Scholarship
Value: varies. Number Awarded: varies. Awarded to part-time students (who have completed the first milestone of five credits and are taking fewer than three credits in the Fall/Winter Session) with a record of outstanding academic merit.
Donor: Brock University Faculty and Staff
Established: 1993
Endowed: 1996

Lauchlan Bruce Bursary
Award Type: In-Course Bursary - Application Required
Value: \$900. Awarded annually to a deserving Brock University student in any year of studies. The successful student must demonstrate financial need and meet Ontario residency requirements. The bursary will be made available to a maximum of two candidates.
Donor: Lauchlan A. Bruce
Established: 2006

Leading the Way Bursary
Award Type: In-Course- Application Required
Value: \$700. To be awarded to an in-course student in any year of study who demonstrates financial need and meets Ontario residency requirements.
Donor: Brock University Staff & Faculty
Established: 2005

Library Research Award
Award Type: In-Course- Application Required
Value: \$500. Awarded annually to an undergraduate student who has utilized library resources. Selection of the recipient will be made through the submission of a 500-750 word essay describing how you found and used library resources for any paper written for a Brock University course. The winner will be selected based on how well the searching process was described, a description of the sources used, and evidence of learning. Selection will be based on recommendation from the Library Award Research Committee. The essay must be accompanied by a copy of the paper and an application form. Applications can be found online at: www.library.brocku.ca/researchaward/php or in person at the Research Help Desk (6th Floor, Library). For further information feel free to contact: Karen Bordonaro: kbordonaro@brocku.ca
Donor: James A. Gibson Library
Established: 2007

Lloyd and Norma Edwards Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$1100*. Awarded annually to a student who is, in the first instance, an amputee, in the second instance, the son or daughter of an amputee, in the third instance, a student with special needs. The award will be made by application and will be verified by the Services for Students with disABILITIES Office.
Donor: Mr. David Edwards and Ms. Susan Hughes
Established: 1996
Endowed: 1996

Lorna and Bob Savage Memorial Bursary
Award Type: In-Course Bursary - Application Required
Value: \$1830. An annual bursary to a student in any year of study. The recipient must demonstrate financial need, meet Ontario residency requirements and have a minimum average of 75%.
Donor: Mr. & Mrs. R. Savage
Established: 2004
Endowed: 2004

Lucia K. Pawlik Award
Award Type: In-Course Award - Application Required
Value: \$500*. Awarded annually to a returning female student competing in the intercollegiate rowing program. As an athletic award, the recipient must have a minimum academic average of 75 percent. Should it not be possible to make the award on these terms, the award is to be made to the male student who satisfies these terms. Applicants must demonstrate financial need, be in good academic standing and meet Ontario residency requirements to be eligible.
Donor: David S. Howes
Established: 1997
Endowed: 1997

Manulife Financial Bursary
Award Type: In-Course Bursary - Application Required
Value: \$800*. Awarded, by application, to an upper year student. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Manulife Financial
Established: 1997
Endowed: 1997

Margaret Paddon Bursary
Award Type: In-Course Bursary - Application Required
Value: \$300. Awarded to a student who is: (a) a single parent supporting a family; (b) in financial need; and (c) aspiring to the teaching profession.
Donor: Members of the French Department, Lincoln County Board of Education
Established: 1979

Margarette Pummell Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$2000*. Awarded annually to one or more recipients at the discretion of the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Manager, Student Awards. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Mrs. M. R. Pummell
Established: 1997
Endowed: 1997

Marion and Ren Henderson Scholarship
Award Type: Entrance Scholarship
Value: \$875*. Awarded to a female student entering university with high academic achievement. The Senate Committee on Undergraduate Student Affairs will determine selection.

Donor: Marion and Ren Henderson
Established: 2000
Endowed: 2000

Meloche-Monnex Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$1200*. Awarded, by application, to a student who must demonstrate financial need and meet Ontario residency requirements.

Donor: Alumni supporting Brock University Alumni Affinity Programs
Established: 1997
Endowed: 1997

Meridian Credit Union Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$3500*. Awarded annually to an outstanding student, who is a graduate of a secondary school in the Niagara Region and who is entering an undergraduate degree program. Preference is given to a member of Niagara Credit Union who is in 'good standing'. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Niagara Credit Union Foundation
Established: 1997
Endowed: 1997

Molson - CHSC - Folk Arts Council Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$725*. Awarded to a student(s) entering university from a St. Catharines high school.

Donor: St. Catharines Folk Arts Council
Established: 1987
Endowed: 1987

Muriel and Arnold Bennett Student Bursary
Award Type: In-Course Bursary - Application Required

Value: Varies. Awarded to registered students on the basis of financial need and satisfactory academic standing. Students must meet Ontario residency requirements.

Donor: Estate of Muriel and Arnold Bennett
Established: 1999

Natale/Campbell Athletics Bursary
Award Type: Entrance- Application Required
Value: \$500*. To be awarded annually to an entering female varsity athlete at Brock University entering any program of study. The successful recipient will demonstrate athletic excellence and academic merit (minimum 80%). The student must enroll

in at least 3.0 credits at Brock University in the Fall/Winter session and be named to the final roster of a varsity sports team. Applicants must also demonstrate financial need and meet Ontario residency requirements.

Donor: Rico and Beth Natale
Established: 2005

Niagara Area Business Women's Network (NABWN) Award

Award Type: In-Course Scholarship - Application Required
Value: Varies. Awarded to a female student from the Niagara Region, pursuing full- or part-time study in a business program at Brock University. The recipient must demonstrate financial need.

Donor: Niagara Area Business Women's Network (NABWN)
Established: 2003

Niagara Community Foundation Bursary
Award Type: In-Course Bursary - Application Required

Value: \$600. Awarded annually to a Brock University student who demonstrates financial need. The recipient must also have attended secondary school in Niagara.

Donor: Niagara Community Foundation
Established: 2006

Niagara Regional Development Council Scholarships

Award Type: In-Course Scholarship - Application Required

Value: up to \$3400*. Awarded to a student (or students) who will be entering fourth-year and is planning to write an honours thesis or major paper dealing with economic development and/or regional planning in the Niagara area. To be considered for the award the student must submit a plan of research including comments from the student's supervisor.

Donor: Niagara Regional Development Council
Established: 1974
Endowed: 1974

Niagara-on-the-Lake Vintage Inns Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$2200*. Awarded to an upper year full-time student who demonstrates great academic potential, a strong desire to pursue a career in the Hospitality industry. Applicants must demonstrate financial need and meet Ontario residency requirements. Please indicate your interest in the hospitality industry within the comments section of your application.

Donor: Ms. Si Wai Lai
Established: 1997
Endowed: 1997

Ontario First Generation Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1000. The Government of Ontario has allocated funds to create a bursary fund for students who are the first in their family to attend a university or college. Brock will be awarding bursaries to students who are returning for study in the Fall/Winter session. The funds will be credited to your tuition account and will directly reduce the amount you owe for tuition and other fees.

Donor: Province of Ontario
Established: 2006

Old Badgers Rugby Alumni Bursary

Award Type: In-Course Bursary - Application Required

Value: \$440*. Two bursaries awarded at \$450. Awarded by application, to a varsity rugby player in second or subsequent year with satisfactory academic progress (Minimum academic average of 70 percent in the previous year as a student-athlete), superior athletic ability and sportsmanship. The candidate must be in need of financial assistance. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Old Badgers Alumni Rugby Club
Established: 1996
Endowed: 1996

Ontario International Education Opportunity Scholarship

Award Type: In-Course- Application Required

Value: \$2500*. The Government of Ontario has allocated funds to create the Ontario Education Opportunity Scholarship Program for students completing part of their academic program abroad through the Ministry of Training Colleges and Universities' International Strategy. This scholarship will provide eligible students with the financial support for and eligible period of academic study, work term or co-op placement outside of Canada. Awarded to full-time students, selection for this award is based on academic merit, financial need and Ontario residency requirements. Students need not be a recipient of an OSAP loan to qualify for this award, however Financial Need is a main component of the selection criteria. Applicants must be participating in a university-approved international study program of at least 2 months in duration.

Full award details at: <http://www.brocku.ca/safa/forms/OIEOS.pdf>

Donor: Province of Ontario
Established: 2007

Ontario Student Opportunity Trust Fund Bursary

Award Type: In-Course Bursary - Application Required

Awarded to student on the basis of financial need. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock Alumni through TeleGrad donations

Established: 1996

Ontario Student Opportunity Trust Fund Parent Bursary

Award Type: In-Course Bursary - Application Required

Value: \$450* The award is to be made annually to one returning student in each of the faculties (Applied Health Science, Humanities, Business, Mathematics and Science, and Social Sciences) with satisfactory academic standing. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Supported by Brock Parents through the TeleGrad Annual Giving Program

Established: 2006

Order of Eastern Star Award Garden City Chpt. 53

Award Type: In-Course Award - Application Required

Value: \$240*. Awarded annually to a full-time student or students, in any program or year of study, on the basis of financial need and satisfactory academic standing.

Donor: Garden City Chapter No. 53 Order of Eastern Star

Established: 2002

Endowed: 2004

Pathways to Education Program Bursary

Award Type: In-Course Bursary - Application Required

Value: \$4000 (awarded over 4 years). Awarded to a graduate of the Pathways to Education Program who is nominated for this award by the P2E Board of Trustees. This award is made over four years, paid in \$1,000 increments.

Established: 2004

Patrick Urlocker Memorial Award

Award Type: Entrance Award - Application Required

Value: \$475. Awarded to a student entering Brock University who is a graduate of Denis Morris High School in St. Catharines, Ontario. The successful recipient must demonstrate academic merit and financial need.

Donor: Annette & Tom Urlocker

Established: 2006

Endowed: 2006

Pepsi Canada Student Award

Award Type: In-Course Award - Application Required

Value: \$1000. Awarded annually to students who have demonstrated outstanding leadership qualities by their involvement in the extra-curricular life of the University. Students must have completed 4.0 credits at Brock and have a minimum overall average of 75 percent. Applications are available from BUSU.

Donor: Pepsi Bottling Group

Established: 1999

Peter and Janet Partridge Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1250*. Awarded to an upper year student participating in the varsity basketball program. If no qualifying student in varsity basketball, then varsity wrestling, then any varsity team. Applications must demonstrate financial need and meet Ontario residency requirements.

Donor: Peter and Janet Partridge

Established: 1997

Endowed: 1997

President's Surgite Award

Award Type: In-Course Award - Application Required

Value: \$1000. The President's Surgite Award is intended to recognize those students who have been outstanding in one or more of the following areas:

- Demonstrated exemplary leadership in a student club, organization, association or team.

- Did something exceptional that helped to advance Brock's academic reputation.

- Made a significant contribution to student life at Brock.

- Provided a valuable service to Brock or the broader community.

Established: 2004

Professor Ernest E. Goldsmith Bursary

Award Type: In-Course Bursary - Application Required

Value: \$900*. To be distributed among worthy students in financial need. Applicants must demonstrate financial need.

Donor: Brock Alumni and the Brock University Alumni Association

Established: 1974

Endowed: 1974

Promising Choices Bursary

Award Type: In-Course Bursary - Application Required

Awarded annually to one or more returning students with satisfactory academic standing. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock University Faculty and Staff

1996

Established: 1996

Rotary Ted Lancaster Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1240*. Awarded annually to applicants who demonstrate financial need and meet Ontario residency requirements.

Donor: St. Catharines Rotary Club

Established: 1996

Endowed: 1996

Sheaffe Hall Award

Award Type: In-Course Award

Value: \$50. Awarded to an upper year residence student of high academic standing, who has made a worthy contribution to residence life.

Donor: Residents of Sheaffe Hall, 1985-86

Silver Badger Alumni Award

Award Type: In-Course Award - Application Required

Value: \$1500*. Established in memory of Barrie-Ann Bergsma, a member of Brock's first graduating class, by her family, this award will be made to a student who has maintained a 'B' average in their major, while making a significant on-going contribution to the extracurricular life of the University. Applications are available at the Alumni Office. The recipient is selected by the Alumni Board. Deadline for applications is May 31.

Donor: The family and friends of Barrie-Ann Bergsma

Established: 1987

Silver Badger Legacy Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1000*. Awarded annually during the second term to a qualifying student in any field of study. Preference will be given to an active volunteer within the Brock University community. The award will be made on these terms by the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer, Student Awards and Financial Aid.

Donor: The Silver Badgers, Brock University's first class of graduates

Established: 1992

Endowed: 2003

SMART Start Award

Award Type: Entrance Bursaries - Application Required

Value: \$500*. Annually to a student enrolled in his/her first year at Brock University. The successful student will have been a participant in the SMART start program prior to entering Brock. Selection will be based on completion of an online application and recommendation of the SMART start committee. Students will be asked to provide a brief essay how SMART start assisted in

your transition in Brock University and the benefits they received after attending SMART start.

Donor: SMART start
Established: 2006

Sophia Gampel Memorial Scholarships

Award Type: In-Course Scholarship
Value: \$330*. Awarded to two students from the city of Niagara Falls, Ontario.
Donor: Mr. Abraham Gampel
Established: 1970
Endowed: 1970

Stan Mikita Bursary

Award Type: In-Course Bursary - Application Required
Value: \$300*. Provides funds to continuing students in financial need, who have satisfactory academic performance, and who have achieved a high level of accomplishment in extracurricular activities.
Donor: Dr. S. Mikita
Established: 1972

Steel Blade Award

Award Type: In-Course Award - Application Required
Value: \$1000. To be awarded annually to one or more members of the Brock Interuniversity hockey team. Candidates must be returning student-athletes who have attained a minimum average of 70 percent in their previous year at Brock.
Donor: Brock University Hockey Alumni
Established: 2000

Stella and Alan Robinson Memorial Award

Award Type: In-Course Bursary - Application Required
Value: \$600*. To be awarded annually, by application. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Mr. Nicholas Robinson
Established: 1997
Endowed: 1997

Student International Mobility Award

Award Type: In-Course Award - Application Required
Value: \$500/term. Brock provides a travel award to students registered full-time for two academic terms or more in an approved Student International Mobility program. Students registered for one academic term in an approved Student International Mobility program will receive minimum financial support in the amount of \$500. The Office of International Services will forward the names of all eligible recipients to Student Awards and Financial Aid for disbursement of the award.
Established: 2004

Student Services Bursary

Award Type: In-Course Bursary - Application Required
Value: \$425*. Awarded to a part-time student from the Niagara Region. Applicants must demonstrate financial need, be in good academic standing and meet Ontario residency requirements.
Donor: Faculty and Staff, Student Services
Established: 1996
Endowed: 1996

Student Wise Bursary

Award Type: In-Course Bursary - Application Required
Value: \$500. Awarded annually to three members of the Brock University Students' Union Health Plan.
Students applying to the Student Wise Bursary must:
1. Be full-time Brock University undergraduate students enrolled in three (3) or more credits;
2. Be enrolled in the Brock University Students' Union health plan;
3. Demonstrate financial need;
4. Demonstrate they are seeking other sources of funding such as OSAP and lines of credit as well as university bursaries;
5. Contribute to their education through part-time work if their course load and circumstances allow;
6. Not have defaulted on any outstanding loans;
7. If they are International students, provide current bank statements dating from the last four (4) months of all accounts in their possession and a letter detailing why they are no longer receiving adequate funding.
Please address all of these criteria in the comments section of your application.
Donor: RWAM Health Insurance Administrators Inc.

T. J. Kearney Bursary

Award Type: In-Course Bursary - Application Required
Value: varies. To provide assistance to worthwhile students in financial need, with preference to students with proven athletic ability.
Donor: Department of Athletics and Services
Established: 1979
Endowed: 1979

Telegrad Award

Award Type: In-Course Scholarship - Application Required
Value: \$600. To be awarded to a Brock University student employed by Telegrad for at least one semester. The successful recipient must demonstrate financial need and satisfactory academic standing. The recipient must also meet Telegrad performance standards. This award may be made to either Canadian or International Students.
Donor: Ms. Shannon Gill
Established: 2005

TD Bank Financial Group Bursary

Award Type: In-Course Bursary - Application Required
Value: \$1000 maximum. Awarded annually by application to students who demonstrate financial need registered in either full or part-time studies. Applicants must meet Ontario residency requirements.
Donor: TD Bank Financial Group
Established: 2001

Terry and Sue White Athletics Scholarship

Award Type: In-Course Scholarship - Application Required
Value: \$1700*. Awarded to a continuing student-athlete entering fourth-year with the highest cumulative average and who is a member of an interuniversity team. Applicants must have a minimum 75 percent average in their previous year, demonstrate financial need and meet Ontario residency requirements.
Donor: Friends of Dr. Terry White and Mrs. Susan White
Established: 1996
Endowed: 1997

The Hathaway Bursary

Award Type: In-Course - Application Required
Value: \$450*. Awarded annually to a student entering pre-service or a student entering their final year of a concurrent program, preference will be given to a graduate of the District School Board of Niagara. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Cameron and Luaine Hathaway
Established: 2005

Travel Awards

Award Type: various
Value: varies - see website for details pertaining to your particular program at <http://www.brocku.ca/safa/scholarship.html>.

There are travel awards available for students Involved In programs that offer this opportunity.

Vern and Donna Sutherland Memorial Bursary

Award Type: In-Course Bursary - Application Required
Value: \$850*. Awarded annually to a student in financial need without regard to the year of study (graduate or undergraduate). The award will be renewable annually throughout attendance at Brock University conditional on the recipient remaining in financial need maintaining satisfactory academic standing.
Established: 2001

Viola Jantzi Bursary

Award Type: In-Course Bursary - Application Required
Value: \$1250* each. Awarded annually to two Brock University students in any year of

study, who demonstrate outstanding academic merit (the minimum average required for the bursary is 75%). The successful recipient must demonstrate financial need and meet Ontario residency requirements.

Donor: Ms. Viola Jantzi
Established: 2003
Endowed: 2004

Walker Industries Scholarship

Award Type: Entrance Scholarship - Application Required
Value: \$4000*. Awarded annually, by application to a student who is entering their first-year of study at Brock and is a child of an employee of Walker Industries Holdings Limited. Should no applicant satisfy these terms, the award shall be made to a student who is entering his or her first-year of study at Brock and is a resident of the Niagara Region. Applicants must demonstrate financial need and meet Ontario residency requirements. Please indicate your relationship to a Walker Industries employee within the comments section of your application. The award is renewable to graduation contingent on the student remaining in good academic standing.

Donor: Niagara Waste Management Systems
Established: 1997
Endowed: 1997

William and Lorraine McNally Scholarship

Award Type: Entrance Scholarship - Application Required
Value: \$2000*. Awarded by application to a student who is a graduate of Denis Morris High School in St. Catharines who is enrolled in an undergraduate program in Liberal Arts/ Science, Social Science or Business. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: William and Lorraine McNally
Established: 1997
Endowed: 1997

William J. Edgar Bursary

Award Type: In-Course Bursary - Application Required
Value: \$750*. Awarded to needy students from the former county of Welland. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Jenny Bell Edgar Estate
Established: 1966
Endowed: 1966

Williamson Memorial Fund

Award Type: Entrance Bursary - Application Required
Value: varies. Number awarded: varies. Awarded annually to entering students in any course of study, entering from secondary school or as mature students. Priority to those in financial need. Students must meet Ontario residency requirements.

Donor: Estate of Ruth Evelyn Williamson
Established: 2002
Endowed: 2002

Women's Basketball Alumni Bursary

Award Type: In-Course Bursary - Application Required
Value: \$600. Awarded to female, varsity, basketball players in their third-, fourth- or fifth-year who are in financial need, have satisfactory academic standing superior athletic ability and who have exhibited fair play in the sport of basketball.
Donor: Former members of the Women's Basketball Team
Established: 1994

Other Awards

Wood Gundy Scholarship

Award Type: In-Course Scholarship
Value: \$400*. Awarded to a student with a record of academic excellence.
Donor: Wood Gundy Securities Limited
Established: 1970
Endowed: 1970

FACULTY: APPLIED HEALTH SCIENCES

Department: Any

Applied Health Science Alumni Bursary

Award Type: In-Course
Value: \$180*. Awarded to one student in the Faculty of Applied Health Sciences in any year of study. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Brock University Alumni
Established: 2005

25th Anniversary Scholarships

Award Type: In-Course Scholarship - Application Required
Value: \$1700* each. Awarded to the top student in each faculty returning to full-time studies in the fourth (honours) year. There is one award for each of the faculties of Business; Humanities; Mathematics and Science; Applied Health Sciences; and Social Sciences.
Donor: Faculty and Staff of Brock University

Bertha and Bernard Harrison Living Legacy Scholarships

Award Type: Entrance Scholarship - Application Required
Value: \$5175*. Awarded annually to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences; and Social Sciences. Candidates for the Living Legacy Scholarships must meet Ontario residency

requirements and show financial need.

Donor: Estate of Bernard Harrison
Established: 2003
Endowed: 2003

Bertha and Bernard Harrison Scholarships

Award Type: Entrance Scholarship
Value: \$950* each. Five scholarships: awarded to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences and Social Sciences.
Donor: Bertha and Bernard Harrison
Established: 1994
Endowed: 1994

Dean's Medal for Applied Health Sciences

Award Type: In-Course Award
Awarded to the student graduating with the highest cumulative overall average in the Faculty of Applied Health Sciences (one in a pass degree, one in an honours degree). Graduates from the Spring and previous Fall Convocation are eligible. A minimum of 10 credits must be completed at Brock University and the graduate must be receiving their first honours degree. A minimum of 80 percent must be achieved.

John W. Bean and Kathryn Bean Becker Scholarship

Award Type: In-Course Scholarship - Application Required
Value: \$1260* each. Awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. In the Faculty of Education the award will be made to one student entering his/her final year of study. Candidates are nominated by the appropriate Dean. A one-page statement indicating your suitability for this award is required. For the Faculty of Education, the candidate must be registered in one of the University's Concurrent Education programs.
Donor: Estate of John W. Bean and Kathryn Bean Becker
Established: 1994
Endowed: 1994

Spencer Williams Scholarship

Award Type: In-Course Scholarship
Value: \$260*. Awarded to an outstanding student in the Faculty of Applied Health Sciences.
Donor: The Rotary Club of St. Catharines South
Established: 1973
Endowed: 1973

Department: Community Health Sciences

Bluma Appel Scholarship in Community Health Sciences

Award Type: Entrance Scholarship
Value: \$2000*. Awarded to the student with

the highest academic standing, entering the first-year of the Community Health Sciences program.

Donor: Mr. Bram Appel
Established: 1991
Endowed: 1991

Dr. Andrea Toepell Memorial Award

Award Type: In-Course Scholarship - Application Required

Value: \$1000*. Awarded annually to a student graduating from the 4-year degree program in Community Health Sciences. The successful recipient must have completed CHSC 1F90 (Introduction to Community Health Sciences) with a minimum A grade in the course, and will also demonstrate a history of community involvement (preference to experience in the Community Health field).

Donor: Family, friends and colleagues of Dr. Andrea Toepell
Established: 2004

Julie Bouffard Community Health Sciences Award

Award Type: In-Course Award

Value: \$500*. To be awarded to a graduating student of Community Health Sciences who has demonstrated extraordinary effort, industriousness and diligence and has exercised initiative to promote and enhance the Community Health Sciences Program. The recipient must have a 75 percent average in their major at graduation. The department of Community Health Sciences will determine the recipient.

Donor: Family, friends and colleagues of Julie Bouffard
Established: 2000

MDS Inc. Bursary

Award Type: In-Course Bursary - Application Required

Value: \$400*. To be awarded annually by application to a student enrolled in the Community Health Sciences program. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: MDS Inc.
Established: 1997
Endowed: 1997

Department: Nursing

Aunt Ruth Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1000. To be awarded annually to a student entering second year in the Faculty of Applied Health Sciences, Department of Nursing. The recipient will be of high academic standing, who has demonstrated a caring heart, inquiring mind and a passion for nursing.

Donors: William Rickers (Brock), Donald Rickers, Karen Rickers (Brock), and Blair

Rickers (Wilfrid Laurier), in honour of our "Aunt Ruth", Ruth B. Grant, RN.

Established: 2006

Dorothy Doyle Award

Award Type: In-Course Award - Application Required

Value: \$500. Awarded at Fall Convocation to a graduating Brock University student enrolled in the one year B.Sc.Nursing Degree Program who has maintained a minimum 75% cumulative average, and previously graduated from either of the Niagara College or Greater Niagara General Hospital Nursing Programs. The eligible student will also demonstrate leadership abilities, empathy towards patients and their families, make excellent nursing diagnosis, and will work for one year after graduation in a health facility in the Niagara Region. The application should reflect an in-depth description of the students' personal commitment to the nursing profession and indicate a willingness to work in the Niagara Region for one year.

Dr. Max Alexandroff Award

Award Type: In-Course Award - Application Required

Value: \$50*. Awarded annually to a student enrolled in Brock University's Nursing program, in any year of study, who demonstrates outstanding academic merit (minimum average of 75%). The successful recipient must demonstrate financial need and meet Ontario residency requirements.

Ida Marietta Houston Award

Award Type: In-Course Award

Value: \$220*. Awarded annually to a third or fourth year student in the Nursing program at Brock University. The student must have an overall major average in the "A" range and demonstrate exceptional work in courses dealing with the issues of palliative and chronic care.

Donor: Ida Marietta Houston
Established: 2003
Endowed: 2003

Luigi and Amalia Setacci Award

Award Type: In-Course Bursary - Application Required

Value: \$2500*. Awarded to full-time students enrolled in the Nursing Program who are able to demonstrate financial need. Preference will be given to students from the Niagara Region.

Donor: Mr. Luigi Setacci

Established: 2006
Endowed: 2006

Ruth B. Grant, RN Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$500. To be awarded annually to a student entering third year in the Faculty of Applied Health Sciences, Department of Nursing. The recipient will be of high

academic standing, who has demonstrated a caring heart, inquiring mind and a passion for nursing.

Donors: Edna Grant Rickers and Douglas Rickers in honour of Ruth B. Grant, RN by her sister and brother-in-law

Established: 2006

Department: Physical Education and Kinesiology

Aileen Hood Memorial Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$300*. Awarded to a deserving student of superior ability entering the fourth-year of the Physical Education program. Must demonstrate financial need and meet Ontario residency requirements.

Donor: Estate of Aileen Hood

Established: 1982

Endowed: 1982

Canadian Society for Exercise Physiology Undergraduate Student Award

Award Type: In-Course Award

The award is offered to Canadian universities that offer an undergraduate degree in physical education, human kinetics, or related disciplines. The recipients will be graduating students who achieve the highest academic standing in their undergraduate class in the scientific portion of the curriculum.

Donor: Canadian Society for Exercise Physiology

Established: 2004

Department of Physical Education and Kinesiology Book Prize

Awarded annually to the fourth-year student with the highest graduating average in Physical Education.

Jason Pearson Memorial Award

Award Type: In-Course Award - Application Required

Value: \$1500*. To be awarded annually to a male and a female varsity student-athlete (no restriction as to sport) in their third year of a Bachelor of Physical Education. The award winners, in addition to their athletic ability, should exhibit the same warmth of personality, concern for others and positive attitude for life as did Jason Pearson. The minimum average to be eligible for this award is 75 percent.

Donor: The family of Jason Pearson

Established: 2001

Ken and Nancy Murray Bursary

Award Type: In-Course Bursary - Application Required

Value: \$675*. Awarded annually, by application to a returning student-athlete who is studying Physical Education. The recipient must have a minimum academic

average of 70 percent in their previous year as a student-athlete. Preference will be given first to a student who is a member of the Men's Varsity Basketball team, then to a student who is a member of the Women's Varsity Basketball team. Should it not be possible to make the award to a member of either Varsity Basketball team, the award is to be made to a returning student-athlete who otherwise satisfies these terms. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Ken and Nancy Murray
Established: 1996
Endowed: 1996

Department: Recreation and Leisure Studies

MR. SUB Award

Award Type: In-Course Award - Application Required
Value: \$500. Awarded to a Student in the Faculty of Applied Health Science Department of Tourism Studies based on academic merit and community involvement. Students are encouraged to describe their community involvement in the comments section of the application.
Donor: MR. SUB
Established: 2001

Recreation and Leisure Studies Student Society Book Prize

Award Type: In-Course Prize - Application Required
Value: \$120*. Awarded to a returning Recreation Leisure Studies student (full-time) with a major average of greater than 75% and who demonstrates promise to the profession. Selection will be determined by grades and an experience profile (1 page). The selection committee will consist of two employees of the City of St. Catharines, Department of Recreation and Community Services.
Donor: Brock University Recreation and Leisure Council
Established: 1994
Endowed: 2004

Department: Sport Management

E. Werner Awards

Award Type: In-Course Award - Application Required
Value: \$600*. Awarded by the Athletics Department to two second-year student athletes who are members of the Brock Inter-university hockey team and will work on a tournament/event project determined by the hockey coach in the year the award is presented. The recipients must have a minimum academic average of 70 percent and be interested in a career path that combines sport and business. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Edward M. Werner
Established: 1997
Endowed: 1999

FACULTY: BUSINESS

Department: Any

25th Anniversary Scholarships

Award Type: In-Course Award - Application Required
Value: \$1700* each. Awarded to the top student in each faculty returning to full-time studies in the fourth (honours) year. There is one award for each of the faculties of Business; Humanities; Mathematics and Science; Applied Health Sciences; and Social Sciences.
Donor: Faculty and Staff of Brock University

Adam Neill Memorial Scholarship

Award Type: Entrance Award - Application Required
Value: \$2000*. Awarded by application to a student who is a graduate of Welland Centennial Secondary School and who is entering the Faculty of Business. If there are no candidates who satisfy these criteria the award shall be made to a student who is a graduate of Welland Centennial Secondary School and who is entering their first-year in any program. If there are no candidates who satisfy these criteria then the award will be made to a student who is a graduate of Welland Eastdale Secondary School or Ecole Confederation Secondaire in Welland. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Robert and Patricia Neill
Established: 1997
Endowed: 1997

Bertha and Bernard Harrison Living Legacy Scholarships

Award Type: Entrance Award - Application Required
Value: \$5175*. Awarded annually to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences; and Social Sciences. Candidates for the Living Legacy Scholarships must meet Ontario residency requirements and show financial need.
Donor: Estate of Bernard Harrison
Established: 2003
Endowed: 2003

Bertha and Bernard Harrison Scholarships

Award Type: Entrance Award
Value: \$950* each. Five scholarships: awarded to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences and Social Sciences.

Donor: Bertha and Bernard Harrison
Established: 1994
Endowed: 1994

Beta Gamma Sigma Scholarship

Award Type: In-Course Award - Application Required
Value: \$1000* each. Awarded to a Beta Gamma Sigma student who is currently enrolled full-time in Brock's Faculty of Business in either of our masters programs (MBA, MACC) or in the final year of one of our undergraduate programs (having completed at least 14.0 credits to date in the BBA or BACC degree). Coop students on a work term are eligible to compete if they meet these criteria.
Donor: Brock University and Beta Gamma Sigma
Established: 2005

Bosch Rexroth Canada Bursary

Award Type: Entrance Award - Application Required
Value: \$650*. Presented annually as an entrance award. Applicants must demonstrate financial need and display academic excellence (75 percent+). Preference will be given first to qualified applicants who are children of Bosch Rexroth employees and who are entering the first-year, particularly in the Faculty of Business. Preference will be given next to qualified applicants entering the first-year of a program in the Faculty of Business. Please indicate your relationship to a Bosch Rexroth employee within the comments section of your application. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Bosch Rexroth Canada Corp.
Established: 1997
Endowed: 1998

Cameron & Helen Keith Award

Award Type: In-Course - Application Required
Value: \$250*. Awarded to a student entering fourth year in either the Business Administration or Accounting programs who contributes to the community or university through extra curricular activity. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: The Keith, Anthony, Cronheimer, Dalton and Herring Families
Established: 2008
Endowed: 2008

Canadian Tire Financial Services (CTFS) Scholarship

Award Type: Entrance Award - Application Required
Value: \$2500. Awarded annually to a student entering his/her first year, in either the Bachelor of Accounting or the Bachelor of Business Administration program. The student must be from the Burlington,

Hamilton or Niagara Region and must demonstrate financial need. The award will be distributed at \$2,500 per year for each of four years provided the student maintains a 80% average. The recipient will also be invited to enter into a mentoring relationship with a CTFS executive.

Donor: Canadian Tire Financial Services (CTFS)

Established: 2005

CIBC Bursary

Award Type: In-Course Bursary - Application Required

Value: \$800*. To be awarded by application to a student enrolled in the Faculty of Business. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: CIBC

Established: 1997

Endowed: 1997

Dante F. Marinelli/Niagara Duty-Free Shops Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$2000*. Awarded to an undergraduate student or a graduate student who is enrolled in a program in the Faculty of Business and who is a resident of the Niagara Peninsula. The recipient will continue to receive the award annually throughout his or her Brock career, contingent on maintaining a minimum 75 percent average. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Niagara Duty-Free Shops Inc.

Established: 1996

Endowed: 1997

David S. Howes Scholarship in Business

Award Type: Entrance Scholarship - Application Required

Value: \$1250*. Awarded by application to a student entering the Business program with the highest academic average. Renewable upon maintaining an academic average of 75 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: David S. Howes

Established: 1996

Endowed: 1997

Dean's Medal for Business

Award Type: In-Course Award

Awarded to the student graduating with the highest cumulative overall average in the Faculty of Business. Graduates from the Spring and previous Fall Convocation are eligible. A minimum of 10 credits must be completed at Brock University and the graduate must be receiving their first honours degree. A minimum of 80 percent must be achieved.

Faculty of Business Bursary

Award Type: In-Course Bursary - Application Required

Awarded annually to a returning business student with satisfactory academic standing. Applicants must demonstrate financial need and meet Ontario residency requirements.

Faculty of Business International Exchange Award

Award Type: In-Course Award

Value: \$500/term. Awarded annually to all students from the Faculty of Business who are participating in an approved Student International Mobility (academic International exchange) programme. The Faculty of Business provides a travel award of, minimum \$1000, to students registered full-time for two academic terms or more in an approved Student International Mobility program. Students registered for one academic term in an approved Student International Mobility program will receive minimum financial support in the amount of \$500. This award is in addition to the Student International Mobility Award (also \$500/term). The Faculty of Business will forward the names of all eligible recipients to Student Awards and Financial Aid for disbursement of the award.

Established: 2003

Faculty of Business Telegrad Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1400*. Awarded to a Faculty of Business student in any year of study. The student that receives this award must demonstrate academic merit (minimum 75% average), financial need and be a resident of Ontario.

Donor: Faculty of Business Graduates have supported this award through the Telegrad program

Established: 2005

Jesse A. Hecker Memorial Scholarship in Business

Award Type: Entrance Scholarship - Application Required

Value: \$1100*. To be awarded to a student entering the Faculty of Business with outstanding academic performance. The successful recipient must demonstrate financial need and meet Ontario residency requirements. The award will be renewable to graduation conditional on the above conditions and maintaining a minimum average of 75%.

Donor: Anonymous

Established: 1999

John W. Bean and Kathryn Bean Becker Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1260* each. Awarded to a student in

each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. In the Faculty of Education the award will be made to one student entering his/her final year of study. Candidates are nominated by the appropriate Dean. A one-page statement indicating your suitability for this award is required. For the Faculty of Education, the candidate must be registered in one of the University's Concurrent Education programs.

Donor: Estate of John W. Bean and Kathryn Bean Becker

Established: 1994

Endowed: 1994

Kenneth A. Fowler Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$4500*. Awarded to Niagara students entering the first-year in the Faculty of Business. Applicants will be recommended by the Dean of Business on the basis of the student demonstrating entrepreneurial skill and/or aptitude through a one-page resume. Recipients will continue to receive the award until graduation contingent on maintaining a minimum average of 75 percent in full-time studies. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Kenneth A. Fowler Foundation

Established: 1997

Endowed: 1997

Kim Ryerson Willoughby Memorial Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1200*. Awarded annually to a student entering the Faculty of Business, on the basis of academic merit and community involvement.

Donor: Family and Friends of Kim Willoughby

Established: 2001

Endowed: 2002

KTH Investments Limited Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1250* Awarded annually to a Brock University student in the Faculty of Business, who is of satisfactory academic standing. Successful recipient must demonstrate financial need and meet Ontario residency requirements.

Donor: KTH Investments Limited

Established: 1997

Leon's Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1600*. Awarded to a student entering full-time studies in the management stream of the Faculty of Business (excluding the

accounting and finance concentration), who has graduated as an Ontario Scholar.
Donor: Leon's Furniture Ltd.
Established: 1994
Endowed: 1994

Maurice Perkins Award

Award Type: In-Course Award
Value: \$200. Awarded to the graduating student in the Faculty of Business with the highest academic standing in accordance with the standards used in awarding the faculty medal. Awarded at Spring Convocation.
Donor: Dr. Maurice F. Perkins
Established: 1977

Ontario Paper Thorold Foundation Scholarship in Business

Award Type: Entrance Scholarship - Application Required
Value: \$1180*. Award to be made to a student entering the first year of Business. This award is renewable, contingent on the student maintaining a minimum "B" average in their program of study. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: The Ontario Paper Thorold Foundation
Established: 1997

RBC Dominion Securities Scholarship

Award Type: In-Course Scholarship - Application Required
Value: \$1200*. Awarded to a student enrolled in a program in the Faculty of Business. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: RBC Dominion Securities Inc.
Established: 1997
Endowed: 1997

Scotiabank Scholarship

Award Type: In-Course Scholarship - Application Required
Value: \$2200*. Four awarded annually, by application to students who have completed their second year of studies in entrepreneurship and/or accounting and are in good academic standing (75 percent or above). Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Scotiabank
Established: 1996
Endowed: 1997

Susan M. (Wills) Napper Bursary in Business

Award Type: Entrance Bursary - Application Required
Value: \$800*. Awarded to a student entering into a degree in Business. Applicants must demonstrate financial need, be in good academic standing and meet Ontario residency requirements. Applicants must also

confirm they are non-smokers.
Donor: Mrs. Susan M. Napper
Established: 1996
Endowed: 1996

Suzanne Rochon Burnett, C.M., O. ONT Scholarship

Award Type: In-Course Scholarship - Application Required
Value: \$1000*. Awarded annually to a student in the Faculty of Business of aboriginal descent with preference to Metis students. Applicants must demonstrate financial need and meet Ontario residency requirements. Upon completion of this application students must submit to the Student Awards and Financial Aid Office, a photocopy of a status card, registry card or other suitable documentation to prove Metis status.
Donor: Suzanne Rochon Burnett and friends in memory of Maman Jeanne
Established: 1997
Endowed: 2003

Terry and Sue White Scholarships

Award Type: In-Course Scholarship - Application Required
Value: \$1700* each. Four awards, one each to be made to a continuing student in the Faculty of Business, Humanities, Mathematics and Science, and Social Sciences. The award will be made to the student entering fourth-year with the highest cumulative average. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Terry White and Mrs. Susan White
Established: 1997
Endowed: 1997

Willmot Scholarship in Business Administration

Award Type: In-Course
Value: \$390*. Awarded to an outstanding student majoring in the Business Administration program
Donor: Mr. D.G. Willmot
Established: 1972

Department: Accounting

CGA Ontario Award for Excellence

Award Type: Graduating Scholarship
Value: \$150 plus CGA Program Credit
1. The recipient must have demonstrated academic excellence in accounting and an "A" average in a specific subject or combination of subjects approved by CGA Ontario (FA2, FA3 and MA1).
2. The applicant should be a graduating undergraduate or MBA student
3. The award is presented at the end of each academic year.
Donor: CGA Ontario
Established: 2006

Crawford, Smith and Swallow Scholarship

Award Type: Entrance Scholarship - Application Required
Value: \$2180*. Awarded annually to a student entering first-year of an Accounting program in the Faculty of Business. Preferences will be given to students from Regional Niagara. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Crawford, Smith and Swallow Chartered Accountants
Established: 1997

Douglas and Edna Rickers Book Bursary

Award Type: In-Course Bursary - Application Required
Value: varies. Awarded annually to a student in second year of the Accounting (or Accounting Coop) degree program at Brock University. The successful student must demonstrate financial need and meet Ontario residency requirements.
Donor: William Rickers, CA.
Established: 2006

Edith Toth Memorial Award

Award Type: In-Course Award
Value: \$180*. Awarded to a fourth-year student in the Accounting or Finance stream of the Faculty of Business for strength in academics and participation in the University community.
Donor: J. A. Toth

Ernst & Young Scholarship in Accounting

Award Type: In-Course Scholarship - Application Required
Value: \$1110*. Awarded annually to a student in the Accounting Program. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Ernst & Young, Chartered Accountants
Established: 1998
Endowed: 1998

George Rasula Memorial Award

Award Type: In-Course Award - Application Required
Value: \$1300*. Awarded annually to a student who has completed the first year of the Accounting Co-op program who has demonstrated academic excellence and involvement in extra-curricular activities. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: The Rasula Family
Established: 1998
Endowed: 1998

John Edds Undergraduate Prize in Accounting

Award Type: In-Course
Value: \$300*. Awarded at Spring convocation to the graduating student in the Faculty of Business, with the highest average in a Bachelor of Accounting degree. This will be

made until 2010, inclusive.
Donor: Mr. J.A. Edds
Established: 1986

KPMG LLP Bursary

Award Type: In-Course Bursary - Application Required

Value: \$625*. Awarded to a student who is entering their second year of accounting (co-op or non co-op) studies who has demonstrated both good accounting and communication skills. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: KPMG LLP
Established: 1997

Partridge Iggulden Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$250*. Awarded to the full-time student enrolled in the Bachelor of Business Administration or Bachelor of Accounting program, who has obtained the highest overall standing at the end of second-year and who has chosen to enroll in the third-year Accounting option.

Donor: Partridge Iggulden Chartered Accountants
Established: 1971

PricewaterhouseCoopers Scholarship

Award Type: In-Course Scholarship

Value: \$1250*. The award will be made annually to a second or third year student in the Faculty of Business- Accounting Program on the basis of academic merit. The award will be made on these terms by the Brock University Senate Committee on Undergraduate Student Affairs, based in the recommendation of the Manager, Student Awards.

Donor: PricewaterhouseCoopers
Established: 2003

Robert D. Durward C.A. Award in Accounting

Award Type: In-Course Scholarship - Application Required

Value: \$5000. Applicant must be in good academic standing, with a minimum of 13 credits in their third year of the Accounting program. Applicant must demonstrate leadership in extracurricular activity, as judged by the Chair of the Accounting department, based on a resume and brief statement submitted by the student. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: The Branscombe Family Foundation
Established: 2004
Endowed: 2005

Robert D. Durward Memorial Scholarship
Award Type: In-Course Scholarship - Application Required

Value: \$1500*. Awarded annually by application to a third- or fourth-year student who has declared their major in Accounting and is a permanent resident of the Niagara Region. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Durward Jones Barkwell and Company

Established: 1997
Endowed: 1997

The CA- Brock Institute for International Issues in Accounting Award

Award Type: In-Course - Application Required

Value: \$1500*. Awarded yearly to two students from the Faculty of Business traveling on an official university exchange, studying co-op Accounting. Applicants must demonstrate financial need, academic merit and complete a brief statement (250 words max.) illustrating their interest in international accounting issues. Upon their return students will be required to compose a report describing their experiences while on exchange.

Donor: The Chartered Accountants
Established: 2007

W. Frank Cooper and Trevor C. Cooper Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1100*. Awarded by application to a student in the Accounting and Finance Program, Faculty of Business. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: W. Frank Cooper and Trevor C. Cooper

Established: 1997
Endowed: 1997

Department: Accounting Co-op

Deloitte and Touche Bill Smiley Award

Award Type: Entrance Award - Application Required

Value: \$500*. Awarded annually to the first-year student who has been admitted to the Accounting Co-op program with the highest average at the time of admission. Students must demonstrate financial need and meet Ontario residency requirements.

Donor: Deloitte and Touche LLP
Established: 1997
Endowed: 1999

Douglas and Edna Rickers Book Bursary

Award Type: In-Course Bursary - Application Required

Value: varies. Awarded annually to a student in second year of the Accounting (or Accounting Coop) degree program at Brock University. The successful student must demonstrate financial need and meet Ontario

residency requirements.

Donor: William Rickers, CA.
Established: 2006

KPMG Entrance Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1250*. Awarded to a student from the Niagara Region, with the highest academic standing, entering the Co-op Accounting program.

Donor: KPMG Chartered Accountants
Established: 1990
Endowed: 1990

KPMG In-Course Scholarship

Award Type: In-Course Scholarship

Value: \$1250*. Awarded to the co-op accounting student with the highest academic standing, after completing the first-year of the program.

Donor: KPMG Chartered Accountants
Established: 1990
Endowed: 1991

Niagara District Chartered Accountants Association Prize

Award Type: In-Course Prize

Value: \$825*. Awarded to the student with the highest academic merit, entering the first-year of the Co-op Accounting program.

Donor: Niagara District Chartered Accountants Association
Established: 1993
Endowed: 1993

Department: Business Administration

Dr. D. G. (Bud) Willmot Scholarship in Business

Award Type: Entrance Scholarship

Value: \$2450*. Awarded to the student entering the Bachelor of Business Administration program with the highest academic standing.

Donor: Estate of Dr. D. G. Willmot
Established: 1994
Endowed: 1994

Faculty of Business Book Prize

Award Type: In-Course Prize

Awarded to a student (or students) for outstanding academic achievement in the fourth-year of a Business Administration program.

George Head Memorial Scholarship

Award Type: In-Course Scholarship

Value: \$200*. Awarded to a student majoring in Business Administration who demonstrates superior ability in Organizational Behaviour, OPER 2P91 (formerly Purchasing Management MGMT 3P30).

Donor: Purchasing Management Association of Canada
Established: 1973

Great-West Life Business Education Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1200*. Awarded annually to a student entering the 4th and final year of an undergraduate program in Business Administration, maintaining high academic standing and exhibiting community leadership through volunteerism. Students are required to submit a detailed summary with application, which demonstrates community leadership.

Donor: Great-West Assurance Co.
Established: 2001
Endowed: 2002

St. Catharines Jaycees 60th Anniversary Bursary

Award Type: Entrance Bursary - Application Required

Value: \$500*. Awarded to an outstanding student entering the first-year of the honours Bachelor of Business Administration degree program who is a permanent resident of St. Catharines. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: St. Catharines Jaycees
Established: 1989
Endowed: 1989

Willmot Scholarship in Business Administration

Award Type: In-Course Scholarship
Value: \$390*. Awarded to an outstanding student majoring in Business Administration.
Donor: Mr. D.G. Willmot
Established: 1972

Department: Business Administration - Concentration in Entrepreneurship

Allen Goar Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1060*. Awarded annually to a student entering the first year of the faculty of business who has declared an interest in pursuing the entrepreneur program. The minimum average required for the scholarship is 75 percent. Applicants must demonstrate financial need and meet Ontario residency requirements. Please indicate your interest in entrepreneurship within the comments section of your application.

Donor: Ann Louise Branscombe and Gail Goar.
Established: 1999
Endowed: 1999

Business Education Council (BEC) of Niagara Scholarship in Business

Award Type: Entrance Scholarship - Application Required
Value: \$2100*. To be awarded, in the first instance, to a student entering a degree in

Business Administration with a concentration in entrepreneurship, and thereafter, if there are no suitable candidates, to be awarded to any other concentration in the Business Administration degree program. Students from the Niagara Region school boards will be considered for these awards. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: The Business Education Council
Established: 1996
Endowed: 1996

Dr. Ken Fowler Scholarship in Entrepreneurship

Award Type: In-Course Scholarship - Application Required

Value: \$1000*. Awarded annually to a third year student who has declared Entrepreneurship as their area of concentration. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Ernst & Young, Chartered Accountants
Established: 1998
Endowed: 1998

John C. Cook Memorial Bursary in Entrepreneurship

Award Type: Bursary Scholarship - Application Required

Value: \$750*. To be awarded, by application, to a second, third- or fourth-year student in an undergraduate program pursuing a concentration in entrepreneurship. Applicants must demonstrate financial need, meet Ontario residency requirements and have satisfactory academic standing.

Donor: Mr. Jan Cook
Established: 1996
Endowed: 1996

Leo LeBlanc Scholarship in Entrepreneurship

Award Type: Entrance Scholarship - Application Required

Value: \$1350*. Awarded by application to a student entering first-year in the Bachelor of Business Administration program. Candidates must intend to pursue a concentration in entrepreneurship and have demonstrated both strong academic achievement and extracurricular, entrepreneurial activities.

Donor: Mr. Leo J. LeBlanc
Established: 1994
Endowed: 1994

Ontario Paper Thorold Foundation Scholarship in Business

Award Type: Entrance Scholarship - Application Required

Value: \$1180*. Award to be made to a student entering the first year of Business. This award is renewable, contingent on the student maintaining a minimum "B" average in their

program of study. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: The Ontario Paper Thorold Foundation
Established: 1997

Richard R. P. Court Bursary Entrepreneurship

Award Type: Bursary Scholarship - Application Required

Value: \$470*. To be awarded annually, by application to an upper-year student in the business entrepreneurship area of study who shows and demonstrates entrepreneurship and appears capable of pursuing a career as a business entrepreneur. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Court Holdings Limited
Established: 1997
Endowed: 1997

Sonja Bata Award for Entrepreneurship

Award Type: In-Course Scholarship

Value: \$250*. Awarded for the best overall combination of academic and entrepreneurial performance.

Donor: Dr. Sonja Bata
Established: 1994

Department: Marketing, International Business and Strategy

Alan Anderson Boyce Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: TBA. In odd numbered years, to a student entering his/her third year of the International Business major, in the Faculty of Business. The successful student must demonstrate financial need and academic merit.

Donor: Janet Boyce
Established: 2005

Tomarin Scholarship in Marketing

Award Type: In-Course Scholarship
Value: \$1250*. Awarded to the student with the highest academic standing, entering the fourth-year marketing concentration in the Bachelor of Business Administration program.

Donor: The late Harry Tomarin and Seymour Tomarin
Established: 1989
Endowed: 1989

FACULTY: EDUCATION

Department: Any

Amy Kerr-Dixon Award

Award Type: Graduating Award - Application Required
Awarded annually to a deserving student

entering the Faculty of Education at Brock University. Preference to go to a female student coming from a Science background. The successful recipient will also demonstrate financial need and be a resident of Ontario. The award will be made based on the recommendation of the Faculty of Education Awards Committee.

Donor: The friends and family of the late Amy Kerr-Dixon
Established: 2005

Anthony Mollica Excellence in Second Language Teaching Award

Award Type: In-Course Award - Application Required

Value: \$500. Awarded to a student in the Faculty of Education. The successful recipient must demonstrate academic merit and be teaching a second language.

Donor: Professor Anthony Mollica
Established: 2004

Caitlin McCracken Memorial Book Prize

Award Type: In-Course

Value: \$120*. To be awarded to four students who have successfully completed the EDUC 8P15 course for concurrent education students. A minimum of one award will be offered for each of the three sections of EDUC 8P15. One award will be provided for the top student in each of the three sections of EDUC 8P15. A fourth annual award will be made to one student who has made an exemplary contribution to any of the EDUC 8P15 course offerings.

Donor: The Family of Caitlin McCracken
Established: 2007

College of Education Alumni Niagara Falls Review Prize

Award Type: In-Course - Application Required

Value: \$300*. To be awarded to a Brock University Graduate who is entering Pre-Service education (B.Ed) with demonstrated academic excellence.

Donor: Faculty of Education Alumni and Niagara Falls Review
Established: 1993

Dean's Award for Professional Growth

Award Type: In-Course Award

Value: \$50*. One-year membership in a professional organization and one-year subscription to Brock Education. Awarded to two graduates in each of the Primary/Junior, Junior/Intermediate and Intermediate/Senior programs in the Pre-service Education Program. Evaluation based on meeting the characteristics of the image of the "Ideal Beginning Teacher", a demonstrated conceptualization of the characteristics of a good teacher, and

professionalism. Nominees for this award are forwarded to the Faculty of Education Awards committee by the group counsellors in late April.

Donor: Faculty of Education
Established: 1995
Endowed: 1996

Dean's Medal for Education

Award Type: In-Course Award

Awarded to the graduating student, selected by faculty members, exhibiting academic and professional excellence in Pre-Service Education.

Eleanor Shaw Award

Award Type: In-Course Award

Value: \$500. Awarded to a female student in her second term (completed the Fall Term) in the Pre-service Education Program (consecutive or concurrent) who has demonstrated excellent potential in teaching and has involved herself in community affairs. Nominees for this award are forwarded to the Faculty of Education Awards Committee by the group counsellors in late April.

Donor: Canadian Federation of University Women, St. Catharines Branch
Established: 1995

Elementary Teachers' Federation of Ontario (EFTO) Award

Award Type: In-Course Award

Awarded to a full-time student in the Faculty of Education, pursuing either a primary/junior or junior/intermediate program. The successful recipient will demonstrate academic excellence in his/her Bachelor of Education courses, and demonstrate exemplary teaching practices in practicum placements. The recipient will demonstrate initiative to broaden personal experience in education culture and a commitment to social justice and equity that is in keeping with the Objects of the Elementary Teachers' Federation of Ontario.

Established: 2005

Elizabeth Morrison Prize for Learning

Application Required

Value: \$500. Awarded annually on the basis of academic standing and financial need. Applicants must be in a concurrent education program at Brock University and are entering his/her final year of Pre-Service Education. Preference will be given to a student from the Hamilton area.

Donor: William Morrison, Ward Morrison and the Provincial Chapter of Ontario IODE.
Established: 2004

Faculty of Education Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1200*. To be awarded to Faculty of Education students. Applicants must

demonstrate financial need, be in good academic standing and meet Ontario residency requirements.

Donor: Faculty and Staff of the Faculty of Education
Established: 1997
Endowed: 1997

Helen J. Stewart Award

Award Type: In-Course Award

Value: \$2500. Awarded annually at Spring Convocation, based on the recommendation of the Dean of the Faculty of Education, to a secondary Faculty of Education student who has demonstrated teaching excellence, academic excellence and professional integrity during the Pre-service program. Nominees for this award are forwarded to the Faculty of Education Awards Committee by the group of counsellors in late April.

Donor: The family of Helen J. Stewart
Established: 1997
Endowed: 1997

Helen J. Stewart Education Bursary

Award Type: In-Course Bursary - Application Required

Value: \$950*. Awarded to a teacher candidate enrolled in (a) the consecutive pre-service program or (b) the Waterloo/Brock FTS program during the time on Brock's campus. Awarded by the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Friends, Family and Colleagues of Helen J. Stewart
Established: 1996
Endowed: 1996

Milton Frederick Pummell Memorial Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$2725*. Established by Mrs. Margarett Pummell in memory of her husband, Milton Frederick Pummell, BA 1932 (B.Paed, Toronto), who was the Director of Education for the St. Catharines Board of Education and also worked as an Adult Education Consultant to school boards on behalf of the Canadian Association for Adult Education. Awarded by Senate, on a recommendation by the Dean of the Faculty of Education, to a student graduating from Brock University who has been accepted in the Faculty of Education Pre-service program. Preference will be given to students from the Niagara region. Applicants must submit a letter of reference from a former professor, demonstrate financial need and meet Ontario residency requirements.

Donor: Mrs. Margarett Pummell
Established: 1997
Endowed: 1997

Mrs. Donna Nash Education Bursary
Award Type: In-Course Bursary - Application Required
Value: \$1000. To be awarded annually to a single or combined Education student, entering third year, who demonstrates both financial need and academic success.
Donor: Dr. Gerald and Mrs. Donna Nash
Established: 1996

Nadine and Frank Coy Bursary
Award Type: In-Course Bursary - Application Required
Value: \$390*. To be awarded annually, by application to a returning student in Education or BA/BEEd program who also participates on the Swim team at an OUAA/CIAU level or other qualified student-athlete with minimum academic average of 70 percent in their previous year as a student-athlete. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Nadine and Frank Coy
Established: 1997
Endowed: 1997

Norah Morgan Memorial Scholarship
Award Type: In-Course Award - Application Required
Value: In even numbered years, to a student entering the Pre-service Education program in the Faculty of Education at Brock University. The successful student must demonstrate outstanding academic merit. Selection will be determined based on the recommendation of the Faculty of Education Awards Committee.
Donor: Brock University Faculty of Education
Established: 2004

Ontario English Catholic Teachers' Association OECTA Award
Award Type: In-Course Award
Awarded to students in Pre-service, and selected by the Ontario English Catholic Teachers' Association.
Donor: Ontario English Catholic Teachers' Association
Established: 2004

Ontario Secondary School Teachers Federation Award
Award Type: In-Course Award
Value: \$350. Awarded each year to a student in regular attendance during the Fall/Winter session of the Faculty of Education in the Intermediate/Senior division course, who, in the opinion of the Awards Committee of the Faculty of Education has shown the most outstanding ability and character. Nominees for this award are forwarded to the Faculty of Education Awards Committee by the group of counselors in late April.
Donor: Ontario Secondary School Teachers Federation

Russell N. Eden Art Award
Award Type: In-Course Award - Application Required
Awarded to a student at the undergraduate, graduate or pre-service level in the Faculty of Education, who has studied art or who is studying art with a view to specialization in the teaching of art or the supervision of the teaching of art. The candidate is selected by the Dean of the Faculty of Education. Applicants must provide a letter of reference from a current professor or counselor who can attest to their interest and ability in visual arts education, a resume and academic transcript.
Donor: Estate of Russell N. Eden
Established: 1994
Endowed: 1994

Science Teachers' Association of Ontario (STAO) Award
Award Type: In-Course Award - Application Required
Value: Membership. Awarded to one teacher candidate from each of the three divisions: primary/junior, junior/intermediate and intermediate/senior. The three nominees must have demonstrated an exemplary commitment to their pre-service science program as well as evidence that they provided an effective learning environment for their students during their teaching practica.
Donor: Science Teachers' Association of Ontario
Established: 2003

Department: Concurrent Education

Diane Helmkey Memorial Bursary
Award Type: In-Course Bursary - Application Required
Value: \$350* each. Three bursaries: Awarded to third- or fourth-year students in the BA/BEEd concurrent program. Applicants must demonstrate financial need.
Donor: Mr. Owen Helmkey
Established: 1993
Endowed: 1993

Group 2 Development Scholarship
Award Type: Entrance Scholarship - Application Required
Value: \$1000*. To be awarded by application to a student entering the first-year of a concurrent education program. Renewable in subsequent years contingent on recipient maintaining a minimum 75 percent average in the program. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Group 2 Development Limited
Established: 1997
Endowed: 1997

The John W. Bean and Kathryn Bean Becker Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$1260* each. Awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. In the Faculty of Education the award will be made to one student entering his/her final year of study. Candidates are nominated by the appropriate Dean. A one-page statement indicating your suitability for this award is required. For the Faculty of Education, the candidate must be registered in one of the University's Concurrent Education programs.
Donor: Estate of John W. Bean and Kathryn Bean Becker
Established: 1994
Endowed: 1994

FACULTY: HUMANITIES

Department: Any

25th Anniversary Scholarships
Award Type: In-Course Scholarship
Value: \$1700* each. Awarded to the top student in each faculty returning to full-time studies in the fourth (honours) year. There is one award for each of the faculties of Business; Humanities; Mathematics and Science; Applied Health Sciences; and Social Sciences.
Donor: Faculty and Staff of Brock University Bertha and Bernard Harrison Living Legacy Scholarships

Award Type: Entrance Scholarship - Application Required
Value: \$5175*. Awarded annually to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences; and Social Sciences. Candidates for the Living Legacy Scholarships must meet Ontario residency requirements and show financial need.
Donor: Estate of Bernard Harrison
Established: 2003
Endowed: 2003

Bertha and Bernard Harrison Scholarships
Award Type: Entrance Scholarship
Value: \$950* each. Five scholarships: awarded to students with outstanding academic achievement, entering each of the faculties of Applied Health Sciences; Business; Humanities; Mathematics and Science and Social Sciences.
Donor: Bertha and Bernard Harrison
Established: 1994

Brock Arts and Science Bursary
Award Type: In-Course Bursary - Application Required
Value: \$650* The award will be made

annually to an upper-year student at Brock University in an Arts or Science Degree. The award will rotate annually among the faculties of Humanities, Social Sciences and Mathematics and Science. Applicants must demonstrate financial need and meet Ontario residency requirements. The award will be made on these terms by the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer.
Donor: Brock Faculty Members
Established: 2002

Brock Arts and Science Entrance Scholarship

Award Type: Entrance Scholarship
Value: \$2900*. Awarded annually to a student entering their first year of study at Brock University in an Arts or Science Degree. The award will rotate annually among the faculties of Humanities, Social Sciences and Mathematics and Science. The recipient must demonstrate academic excellence in their final year of study at the secondary school level.
Established: 2002
Endowed: 2002

Clara Hollosi Memorial Book Prize

Award Type: In-Course Prize
Value: \$100*. Awarded annually to an outstanding student in any year of study, alternating between Literature and Music.
Donor: Family and Friends of Professor Clara Hollosi
Established: 2001
Endowed: 2002

David and Terry Atkinson Award

Award Type: In-Course Award - Application Required
Value: \$1500. Awarded to a student entering the fourth year of an Honours program in the Faculty of Humanities. Applicants must demonstrate financial need and meet Ontario residency requirements. Successful applicants will have made significant contributions to the life of the university. Applicants must also provide 2 references in support of their application.
Donor: Brock University Foundation in recognition of the contributions made by Dr. Atkinson to the advancement of the university.
Established: 2005

Dean's Medal for Humanities

Award Type: In-Course Award
Awarded to the student graduating with the highest cumulative overall average in the Faculty of Humanities (one in a pass degree, one in an honours degree). Graduates from the Spring and previous Fall Convocation are eligible. A minimum of 10 credits must be completed at Brock University and the graduate must be receiving their first honours degree. A minimum of 80 percent must be achieved.

Gail Jenkyns Memorial Bursary

Award Type: In-Course Bursary - Application Required
Value: \$500. Awarded to a female student in the faculty of Humanities.
Donor: Canadian Federation of University Women - St. Catharines
Established: 1987

Gertrude Millward Scholarship

Award Type: In-Course Scholarship
Value: \$200. Awarded to a student in the Faculty of Humanities for outstanding performance.
Donor: Earl Mountbatten Chapter, IODE
Established: 1977

John W. Bean and Kathryn Bean Becker Scholarship

Award Type: In-Course Scholarship - Application Required
Value: \$1260* each. Awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. In the Faculty of Education the award will be made to one student entering his/her final year of study. Candidates are nominated by the appropriate Dean. A one-page statement indicating your suitability for this award is required. For the Faculty of Education, the candidate must be registered in one of the University's Concurrent Education programs.
Donor: Estate of John W. Bean and Kathryn Bean Becker
Established: 1994
Endowed: 1994

Dr. Margaret Campbell Bursary

Application Required
Value: \$425*. Awarded annually to a first-year student who is enrolled in Science or Humanities. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Campbell and Company Insurance Consultants Ltd.
Established: 1996
Endowed: 1996

Terry and Sue White Scholarships

Award Type: In-Course Scholarship
Value: \$1700* each. Four awards, one each to be made to a continuing student in the Faculty of Business, Humanities, Mathematics and Science, and Social Sciences. The award will be made to the student entering fourth-year with the highest cumulative average. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Terry White and Mrs. Susan White
Established: 1997
Endowed: 1997

Department: Applied Language Studies

Department of Applied Language Studies Award for an Outstanding Graduating Student

Award Type: In-Course Award
Awarded to an outstanding graduating student in Applied Language Studies.

Department: Canadian Studies

Canadian Studies Book Prize

Award Type: In-Course Prize
Value: \$50. Awarded to a graduating student for high standing in Canadian Studies.

James Nicks Memorial Prize in Canadian Studies

Award Type: In-Course Prize
Value: \$90*. Awarded annually to the most distinguished combined, Canadian Studies declared major in any year.
Donor: Family and Friends of James Nicks
Established: 2001
Endowed: 2001

Department: Classics

Brock Archaeological Practicum Award

Award Type: In-Course Scholarship - Application Required
Awarded biannually to students participating in the Brock University archaeological practicum based on academic merit, financial need and service in the promotion of archeology within the University and wider community.
Donor: Alumni and friends of the Brock University Archaeological Practicum
Established: 1996
Endowed: 1996

Bruce Lidsten Memorial Prize

Award Type: In-Course Prize
Value: \$50*. Two prizes: awarded during the Fall/Winter Session to students with the highest averages in each of CLAS 1P91/1P92 and CLAS 1P95/1P97.
Donor: Established by friends and colleagues of Bruce Lidsten
Established: 1995
Endowed: 1995

Department of Classics Book Prize in Ancient Art and Archeology

Award Type: In-Course Prize
Awarded to a graduating student for high standing in Ancient Art and Archaeology.
Established: 1972.

Department of Classics Book Prize in Greek

Award Type: In-Course Prize
Awarded to a graduating student for high standing in Greek.
Established: 1972

Department of Classics Book Prize in Latin
Award Type: In-Course Prize
Awarded to a graduating student for high standing in Latin.
Established: 1972

Geoffrey William Brown Memorial Prize
Award Type: In-Course Award - Application Required
Value: TBA. Awarded to a student studying the Department of Classics. Must demonstrate academic merit and financial need.
Donor: Helen and William Brown
Established: 2005
Endowed: 2005

Mariane LeCompte (Newton) Memorial Award
Award Type: In-Course Award - Application Required
Value: \$500*. Awarded biannually to a Brock student majoring in Classics who has enrolled in CLAS 3M20-3M29(4M00-4M09), Study in Mediterranean Lands. Courses including any significant component of archaeological fieldwork (such as excavation or survey) are not eligible. Awarded on the basis of academic merit. Preference will be given to applicants who have two or more credits in Latin or Greek or both. Selection will be made by the Classics Departmental Committee. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Graduates of the Classics program and the Classics Department
Established: 1997
Endowed: 2000

Niagara Peninsula Society (Archaeological Institute of America) Prize in Classical Archaeology and History
Award Type: In-Course Prize
Awarded annually by the Department of Classics. The first prize will be awarded to the student with the highest average in both CLAS 3P07(2P91) and CLAS 3P08(2P92) - Greek History or CLAS 3P09(2P98) and CLAS 3P10(2P99) - Roman History in a given year. The second prize will be awarded to the student with the highest average mark in any of the two following courses which are offered in a given year: CLAS 2P30 - Origins of Human Culture, CLAS 2P32 - Field Archaeology, CLAS 2P36 - Greek Archaeology, CLAS 2P38 - Roman Archaeology, CLAS 2P48 - Greek Sanctuaries. The prizes will take the form of an AIA student membership along with a one-year subscription to Archaeology magazine.
Donor: The Niagara Peninsula Society (Archaeological Institute of America)
Established: 2000
Endowed: 2000

School of Restoration Arts at Willowbank Vasilios and Kostas Poulimenos Archaeological Practicum Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$2000. Awarded bi-annually (even years), to a fourth year Brock University student, studying in the Department of Classics. The successful recipient must be participating in CLAS 4F75 (Archaeological Practicum in Mediterranean Lands) and demonstrate academic merit. Candidates must also demonstrate financial need and meet Ontario residency requirements.
Donor: The School of Restoration Arts at Willowbank and friends and family of the Poulimenos Brothers
Established: 2006

School of Restoration Arts at Willowbank Vasilios and Kostas Poulimenos Book Prize
Award Type: In-Course Award - Application Required
Value: \$125. Awarded bi-annually (odd years), to a fourth year Brock University student, studying in the Department of Classics. Candidates must demonstrate academic merit, demonstrate financial need and meet Ontario residency requirements.
Donor: The School of Restoration Arts at Willowbank and friends and family of the Poulimenos Brothers
Established: 2006

Trine Varcoe Memorial Award
Award Type: In-Course Award - Application Required
Value: \$2,500*. Open to a Brock University undergraduate pursuing a single major honours degree in Classics enrolling in an approved program of Classical Studies abroad and who has a minimum major average of 75 percent. Preference will not necessarily be given to those participating in the Brock University Practicum - CLAS 4F75 or Study in Mediterranean Lands - CLAS 4M00-4M09(3M20 - 3M29). Students who are proposing an alternative program of study must clearly indicate the nature, date, location and sponsorship of the proposed program. Awards may not be used for unstructured travel. Applicants must demonstrate financial need and must meet Ontario residency requirements.
Donor: Dr. Terence B. Varcoe and the Friends of the late Trine Varcoe.
Established: 2002
Endowed: 2002

Department: Dramatic Arts

Amadeus Book Prize
An award in commemoration of the 200th anniversary of Mozart's death. Alternating between the Dramatic Arts program and the Music department, this award will be

presented at Fall Convocation to a graduating student with a strong university record in performance and a high academic standing.
Established: 1993
Endowed: 1998

Elizabeth Miller Bursary
Award Type: Entrance Bursary - Application Required
Value: \$400*. Awarded annually, by application to a first-year student who is enrolled in Dramatic Arts (DART). Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Mary Jane Miller and Dr. Jack Miller in memory of Elizabeth Miller
Established: 1997
Endowed: 1997

F. Janet Dolman Prize in Playwrighting
Award Type: In-Course Prize
Awarded to a student or students who show outstanding promise in playwrighting.
Donor: Faculty and Staff Theatre Program
Established: 1989

J. H. and J. E. Harding Prize in Dramatic Literature and Theatre
Award Type: In-Course Prize *
Awarded to the student who excels in third-year dramatic literature and theatre courses.
Established: 1977
Donor: Dr. Mary Jane Miller

Jane Forrest Prize in Dramatic and Theatre Arts
Award Type: In-Course Prize
Awarded to the student who excels in second-year Dramatic Literature courses.
Established: 1979
Donor: Dr. Mary Jane Miller

Jean Harding Prize
Award Type: In-Course Prize
Awarded to the student who achieves the highest standing in fourth-year (honours) Dramatic Arts.
Established: 1989
Donor: Dr. Mary Jane Miller

L. Amy Kerr Book Prize
Awarded to a student in any year in Film Studies or Dramatic Arts or Visual Arts, who has displayed strength in academics and participation in the university community.
Established: 1992

M.E. and L.E. Miller Prize in Drama and Theatre Arts
Award Type: In-Course Prize
Awarded to the student who achieves the highest standing in first-year Dramatic Arts.
Established: 1971
Donor: Dr. Mary Jane Miller

Mike Holmes Heron Memorial Bursary
Award Type: In-Course Bursary- Application Required
Value: \$800*. Awarded to a student enrolled in a program within the Department of Dramatic Arts who demonstrates academic merit and financial need. The student must also meet Ontario residency requirements.
Donor: Brock's Students' Musical Theatre Troupe and Family & Friends of Mike Holmes Heron
Established: 2005

Norah Morgan Book Prize for Drama in Education
Award Type: In-Course Prize
Awarded to the student with academic merit over two years in DART 2P01, 2P02 or the equivalence of two credits of Drama in Education and Theatre in Education who has also demonstrated a flair for using drama as a subject or method of teaching in the classroom. A minimum academic average of 75 percent must be maintained.
Donor: Friends of Norah Morgan
Established: 1996
Endowed: 1998

Theatre Students and Alumni Book Prize for Theatre
Award Type: In-Course Prize
Awarded to a second- or third-year student in Dramatic Arts who has maintained at least a B average and who has made a distinctive contribution to the program or programs.
Donor: Brock Theatre graduates and the Dramatic Arts program.
Established: 1995
Endowed: 1996

Warren Hartman Bursary
Award Type: In-Course Bursary - Application Required
Value: \$200*. Awarded annually, by application. To be divided equally between each of three outstanding students majoring in Dramatic Arts, in Film Studies and in Visual Arts, who have completed their first-year and are entering their second-year. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Faculty and Staff, (former Department of) Film Studies, Dramatic and Visual Arts
Established: 1997
Endowed: 1997

Department: English Language and Literature

Alan Anderson Boyce Memorial Bursary
Award Type: In-Course Bursary - Application Required
Value: TBA. In even numbered years, to a student in his/her first year of the English Language and Literature program in the

Faculty of Humanities. The successful student must demonstrate financial need and academic merit.
Donor: Janet Boyce
Established: 2005
Endowed: 2005

Brinkman Travel Prize for Photography
Award Type: In-Course Prize
Value: \$50. To be awarded to the artist whose photograph submitted to the Harpweaver Magazine is considered to be the most exceptional.
Donor: Brinkman Travel Inc.
Established: 1996

Canadian Authors Association Prize for Poetry
Award Type: In-Course Prize
Value: \$50. Awarded for the best poetry submission to be published in the Harpweaver Magazine.
Donor: Niagara Branch of the Canadian Authors Association
Established: 1994

Canadian Authors Association Prize for Poetry in honour of Joan Tovenati
Award Type: In-Course Prize
Value: \$100*. Awarded annually to the best work of poetry by a student published (normally) in the annual anthology of creative writing produced by Brock University Creative Writer's Club.
Donor: Niagara Branch of the Canadian Authors Association
Established: 1994

Carole LaMothe Memorial English Essay Prize
Award Type: In-Course Prize
Value: \$140*. Awarded for the best essay submitted as part of the required workload in any English or Drama/English course during the academic year. Entries must be submitted to the competition by the student.
Donor: Department of English and friends of Carole LaMothe
Established: 1981

Eleanor Abram Prize for Fiction
Award Type: In-Course Prize
Value: \$150. Awarded to the author of the best work of fiction published in the Harpweaver magazine, as selected by a writer in the community at large (chosen annually by Patricia Abram). The recipient of this award will be recognized in the annual publication of the Harpweaver magazine. In the event that more than one issue is produced in a calendar year only one award will be given. Submissions from any faculty/staff or student of Brock University are eligible for this award.
Donor: Ms. Patricia Abram
Established: 1995

English Department Book Prize
Award Type: In-Course Prize
Awarded to a student (or students) in third- or fourth-year for outstanding academic achievement in English.

English Students Association's Book Prize
Award Type: In-Course Prize
Value: \$75*. Awarded to a student in any year of study enrolled in the English Language and Literature program at Brock University. The successful recipient must also demonstrate involvement in the English department and English Students Association extra-curricular activities, but cannot be a member of the ESA Committee or Executive.
Donor: Brock University English Students Association
Established: 2000

First-Year English Essay Prize
Award Type: In-Course Prize
Value: \$100. Awarded for the best essay submitted as part of the required workload of any first-year English course. Any entry must be submitted to the competition by the student.
Donor: Department of English
Established: 1981

Jill and Ian Brindle Perfeci Perseverantia Award
Award Type: In-Course Scholarship - Application Required
Value: \$1200. In odd numbered years, in the English Language and Literature Department. The successful recipient must demonstrate academic merit (minimum average 75%) and financial need. He/She must also meet Ontario residency requirements.
Donor: The Brindle Family honouring the memory of Charles White Williams (1811 - 1884) teacher and farmer, Huron Co. Ontario. "Perfeci Perseverantia" is the motto from the family's Coat of Arms, meaning, "I have accomplished through perseverance."
Established: 2005

Harpweaver Prize for Visual Art
Award Type: In-Course Prize
Value: \$50. Awarded to the artist of the best work of visual art published in The Harpweaver magazine. Submissions from any faculty, staff or student at Brock University are eligible for this award.
Donor: Dr. Alan Marcus
Established: 1995

Harry Karowec Memorial Bursary
Award Type: In-Course Bursary - Application Required
Value: \$85*. Awarded to a student in great need, who is majoring in English literature.
Donor: Mrs. Ellen Cote
Established: 1982
Endowed: 1982

Helen S. Bremner and the Bremner Family Memorial Scholarships

Award Type: In-Course Scholarship - Application Required

Value: \$1000*. Two scholarships: one awarded to a student majoring in English, the other to a student majoring in Geography. The recipients will be entering their third- or fourth-year, will have made a significant contribution to extracurricular activities and must not have received other major awards. Donor: Mr. James M. Bremner
Established: 1994
Endowed: 1996

Lily Bell Memorial Award for English

Award Type: In-Course Award

Value: \$500. Awarded to the most deserving female student in second- or third-year English.

Donor: Canadian Federation of University Women, St. Catharines Chapter
Established: 1974

Linda and Tom Goldspink Scholarship in English Language and Literature

Award Type: In-Course Scholarship - Application Required

Value: \$1080*. Awarded to a student majoring in English Language and Literature. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Linda and Tom Goldspink and Ernst and Young, Chartered Accountants
Established: 1998
Endowed: 1998

Margaret Megannety Scholarship in English

Award Type: In-Course Scholarship - Application Required

Value: \$1000*. To be awarded to a third- or fourth-year English Language and Literature student. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Mrs. Margaret Megannety
Established: 1997
Endowed: 1997

Mary Pat Richardson Bursary

Award Type: In-Course Bursary - Application Required

Value: \$400*. Awarded by application to a student in Music or English who shows academic promise (70 percent or higher), as well as financial need. Single and joint majors are eligible. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Dr. Mary Frances Richardson
Established: 1996
Endowed: 1996

Niagara Region English Committee Award

Award Type: In-Course Award

Value: \$100. Awarded to a continuing

student in the second-, third- or fourth-year of an English Language and Literature program, who is a graduate of a Niagara Region high school.

Donor: Niagara Region English Committee
Established: 1993

PRECIPICE Prize for Visual Art

Award Type: In-Course Prize

Value: \$50*. Awarded to the artist of the best work of visual art published in The PRECIPICE magazine. Submissions from any faculty, staff, or student at Brock University are eligible for this award.

Donor: Dr. Alan Marcus
Established: 1995

Department: Great Books/Liberal Studies

Great Books/Liberal Studies Book Prize Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500. To be awarded to a student in the Great Books/Liberal Studies program. Applicants must demonstrate financial need. Web Bursary applications will be forwarded to the department of Great Books/Liberal Studies by the Bursary Officer. The award will be in the form of a Brock University Book Store certificate.

Donor: John and Annette Enns-Wind
Established: 1998

Great Books/Liberal Studies Graduating Book Prize

Award Type: In-Course Prize

Awarded to the graduating student with highest standing in Great Books/Liberal Studies.

Paul Branscombe Memorial Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1000*. Awarded by application to a first-year student in the Great Books/Liberal Studies program. Renewable in subsequent years contingent on recipient maintaining a minimum 75 percent average in the program. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Group 2 Development Limited
Established: 1997
Endowed: 1997

Department: History

Betty and Gordon Vallee Scholarships

Award Type: Entrance Scholarship - Application Required

Value: Varies. Two scholarships, to be awarded as entrance scholarships to students on the basis of academic merit and financial need with a declared major in History and/or Biological Sciences who have graduated from

a Niagara Region secondary school. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Betty and Gordon Vallee
Established: 1994
Endowed: 1994

Department of History Book Prizes

Award Type: In-Course Prize

Four book prizes. Awarded to outstanding students of History in all years.

Donald G. Creighton Prize in History

Award Type: In-Course Prize

Value: \$100*. Awarded to the student obtaining the highest mark in a first-year history course.

Donor: W.G. (Bill) Ormsby
Established: 1966

Donald Goodspeed Book Prize

Award Type: In-Course Prize

Value: \$100*. Awarded to the student achieving the highest academic standing in HIST 1F95.

Effie Buck Memorial Prize in History

Award Type: In-Course Prize - Application Required

Value: \$875*. Awarded to a full- or part-time student who has taken a minimum of two credits of which one is in History. Candidates must demonstrate financial need and have enhanced the University experience. Applicants must demonstrate financial need. Applications are reviewed by the Chair and faculty of the History department and a nomination is forwarded to the Senate Subcommittee on Awards and Bursaries for approval. Donor: Family and friends of Effie Buck

Established: 1994
Endowed: 1994

Frank and Amy Wills Memorial Award

Award Type: In-Course Award

Value: \$200*. Awarded annually to the History student who has demonstrated superior creativity and thoroughness in research presented in the History Department. Selection will be determined by the Department of History.

Established: 2000
Donor: Dr. and Mrs. Craig Hanyan

John M. and Barbara McEwen Prize in British History

Award Type: In-Course Prize

Value: \$200. Awarded to the student who excels in British history at the second-, third- or fourth-year level.

Donor: The family of Professor John M. McEwen
Established: 1991

John Burtniak Bursary in Canadian History
Award Type: In-Course Bursary - Application Required

Value: \$850* Awarded annually to a full time student entering in the third or fourth year in the Faculty of Humanities, majoring in a program of History. Preference to be given to those students who have an interest in Canadian History. Students should indicate their interest in Canadian History on their application.

Donor: Mr. John Burtniak
Established: 1994

Lillie A. Traver Scholarship

Award Type: In-Course Scholarship

Value: \$150*. Awarded to a student with honours standing, majoring in History.

Donor: Miss Lillie A. Traver

Established: 1976

Endowed: 1976

Professor Frederick C. Drake Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1000*. Awarded annually on the basis of academic merit to a full-time student majoring in History at Brock University. The candidate must be entering the fourth year of an undergraduate degree and preference may be given to a student for whom U.S. History is an integral part of his or her program of study. If a clear candidate cannot be determined, financial need may be considered. Selection will be made by the Department of History.

Donor: Friends and Family of Professor Fred Drake

Established: 2002

Endowed: 2003

Turner Book Prize in Canadian History

Award Type: In-Course Prize

Value: \$300*. Awarded by the Department of History to the student who is a declared History major and who is the outstanding student in Canadian History at the second-, third- or fourth-year level.

Donor: Dr. Wesley B. Turner

Established: 1998

Endowed: 1998

W. G. Ormsby Memorial Scholarship

Award Type: In-Course Scholarship

Value: \$300*. Awarded to the student with the highest average, entering the third- or fourth-year of a single or combined major program in History.

Established: 1987

Endowed: 1987

Department: Medieval and Renaissance Studies

Medieval and Renaissance Studies First Year Book Prize

Award Type: In-Course - Application Required

Value: \$100*. Awarded to a student entering year two that has successfully completed MARS 1F90 (Medieval and Renaissance Civilizations) and demonstrates excellence in their studies. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: R. Andrew McDonald and Jacqueline A. Buchanan

Established: 2007

Department: Modern Languages, Literatures and Cultures

Book Prize of the Consulate General of Mexico

Award Type: In-Course Prize

Awarded to a student(s) who has shown excellence and promise in Spanish.

Donor: Consul-General of Mexico

Established: 1999

Book Prize of the French Consul-General, Toronto

Award Type: In-Course Prize

Awarded to an outstanding student in French.

Donor: Consul-General de France

Established: 1965

Caisse Populaire Welland Scholarship in French

Award Type: In-Course Scholarship

Value: \$1000. Awarded annually to the fourth-year honours student in the Department of Modern Languages, Literatures and Cultures with a declared major in French who has the highest academic standing.

Donor: Caisse Populaire Welland

Established: 2005

Club Roma Paolo Pischetta Memorial Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1200. Awarded annually, to a student in the Department of Modern Languages, Literatures and Cultures with a declared major in Italian, preference to a student entering third-year. The successful recipient must demonstrate academic merit and financial need. He/She must also meet Ontario residency requirements.

Donor: Club Roma (St. Catharines) Inc.

Established: 2006

Department of Modern Languages: French, Italian and Spanish Graduating Book Prize

Award Type: In-Course Prize

Three book prizes to be awarded to

graduating students of exceptional merit in each of the three languages, French, Italian and Spanish.

Established: 1999

German Embassy Book Prize

Award Type: In-Course Prize

Awarded to the top student in each course offered by the German division of the Department of Modern Languages.

Donor: German Embassy

Established: 1967

Graduating Book Prize of the Consulate General of Italy, Toronto

Award Type: In-Course Prize

Awarded to an outstanding graduating student in Italian.

Donor: Consul General of Italy in Toronto

Established: 1997

Graduating Book Prize of the Embassy of Spain

Award Type: In-Course Prize

Awarded to an outstanding student graduating in Spanish.

Donor: Ambassador of Spain

Established: 1999

Joseph Dennis Scholarship in Italian

Award Type: In-Course Scholarship

Value: \$500. Awarded to a first-, second- or third-year student in Italian on the basis of distinguished scholastic performance.

Donor: The Grand Lodge of the Order Sons of Italy of Ontario

Established: 1975

Joyce Lucey Prize

Award Type: In-Course Prize

Awarded to an outstanding student minoring in German in the Department of Modern Languages, Literatures, and Cultures. If there is no qualified student minoring in German, then it will be awarded to an outstanding student majoring in French

Donor: Friends of the late Mrs. Joyce Lucey

Established: 1989

Leonard Rosmarin Bursary

Award Type: Entrance Bursary - Application Required

Value: \$500. Awarded to student admitted to the Honours French program with outstanding potential. Participants in the Brock-Niagara French Contest will be given preference. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: The friends and colleagues of Dr. Rosmarin

Established: 2004

Niagara Italian Community Prize

Award Type: In-Course Prize

Value: \$200*. Awarded to the most outstanding student taking Italian as a major

or combined major, in any year.
Donor: The division of Italian and the Italian Club of Brock University

Prize of the Ambassador of Switzerland to Canada/French

Award Type: In-Course Prize
A book prize awarded to students who obtained the highest standing in French.
Established: 1966
Donor: Ambassador of Switzerland to Canada

Prize of the Ambassador of Switzerland to Canada/German

Award Type: In-Course Prize
A book prize awarded to students who obtained the highest standing in German.
Donor: Ambassador of Switzerland to Canada
Established: 1966

Prize of the Ambassador of Switzerland to Canada/Italian

Award Type: In-Course Prize
A book prize awarded to students who obtained the highest standing in Italian.
Donor: Ambassador of Switzerland to Canada
Established: 1966

Prize of the Embassy of Austria

Award Type: In-Course Prize
A book prize to a student or students of outstanding academic achievement in German.
Donor: Austrian Embassy
Established: 1970

Raffaele DeLuca Memorial Scholarship

Award Type: In-Course Scholarship
Value: \$135*. Awarded to a student of Italian language on the basis of distinguished scholastic performance.
Donor: Friends of the late Professor DeLuca
Established: 1984
Endowed: 1984

Spanish Embassy In-Course Prize

Award Type: In-Course Prize
Awarded to a student of exceptional merit in Spanish.
Established: 1999
Donor: Ambassador of Spain

Year 1 and Year 2 Book Prize of the Consulate General of Italy, Toronto

Award Type: In-Course Prize
Awarded to outstanding students from first- and second-year who have shown excellence and promise.
Donor: Consul General of Italy in Toronto
Established: 1997

Department: Music

A. Whitmore Griffin Award in Music

Award Type: In-Course Award - Application Required
Value: \$2100*. Awarded to a third- or fourth-year student with a declared major in Music. The award will be made in recognition of academic excellence, outstanding achievement and potential as a music educator. Preference will be given to a student who has been accepted in the Faculty of Education at Brock University. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Mrs. Kathleen Griffin in memory of A. Whitmore Griffin and in honour of his outstanding contribution to the musical life of St. Catharines, Lincoln County, the whole Niagara Region and in schools and communities across Ontario.
Established: 1997
Endowed: 1997

Amadeus Book Prize

Award Type: In-Course Prize
An award in commemoration of the 200th anniversary of Mozart's death. Alternating between the Dramatic Arts program and the Music department, this award will be presented at Fall Convocation to a graduating student with a strong university record in performance and a high academic standing.
Established: 1993
Endowed: 1998

Eunice Leahey Memorial Bursary in Music

Award Type: In-Course Bursary - Application Required
Value: \$850*. Awarded annually to an upper year student enrolled in the Bachelor of Music Program who has achieved a minimum average of 75 per cent and can demonstrate financial need and meet Ontario residency requirements. Preference will be given to a student with demonstrated exceptional performance ability in singing, on the piano or on another instrument.
Donor: Relatives and Friends of Eunice Leahey.
Established: 1999
Endowed: 2003

Jack and Susan Velkers Bursary

Award Type: In-Course Bursary - Application Required
Value: \$600. Awarded annually to a student in any year of study in the Music program in Brock University's Faculty of Humanities. The successful student must demonstrate financial need and academic merit and meet Ontario residency requirements.
Donor: Janet Boyce
Established: 2005
Endowed: 2005

Music World Award

Award Type: Entrance- Application Required
Value: \$345*. Awarded to an entering music student with an interest in performance who has demonstrated financial need. Preference will be given to a non-BMus student. Applicants must also meet Ontario Residency requirements.
Donor: Carolyn Hoxie
Established: 1997

Mary Pat Richardson Bursary

Award Type: In-Course Bursary - Application Required
Value: \$500*. Awarded by application to a student in Music or English who shows academic promise (70 percent or higher), as well as financial need. Single and joint majors are eligible. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Mary Frances Richardson
Established: 1996
Endowed: 1996

Neil Jones Award in Music

Award Type: In-Course Award - Application Required
Value: \$500*. To be awarded annually to a second, third or fourth-year student enrolled in the Bachelor of Music Program. Applicants must demonstrate financial need and meet Ontario residency requirement.
Donor: Mr. and Mrs. Neil Jones and Jeanne Jones
Established: 1996
Endowed: 1996

Niagara Symphony Award

Value: \$500. Awarded to a senior student in Music who has demonstrated outstanding performance ability. Preference will be given to a student who has elected to perform a senior recital and who has registered in MUSI 3P02 (Recital I) or 4p02 (Recital II). Recommendation for the award to be provided by the Chair, Department of Music.
Donor: Niagara Symphony
Established: 2001

Ronald Tremain Prize in Music Composition

Value: \$50. Awarded to a Music major who shows outstanding achievement and potential as a composer.

Ruth and Horace Beard Award in Music

Value: \$300*. Awarded on the recommendation of the Chair, Department of Music, to an entering student on the basis of outstanding performance ability.
Donor: Mr. Patrick Beard
Established: 1998
Endowed: 1998

Senior Scholarship in Music I

Value: \$340*. Awarded to the student, with the highest average in Music courses, entering the third-year of a degree program in Music.
Donor: The Late Dr. and Mrs. J.A. Gibson
Established: 1975
Endowed: 1981

Senior Scholarship in Music II

Value: \$350*. Awarded to a student of distinguished musical achievement, entering the final year of a degree program in Music.
Donor: The Late Dr. and Mrs. J.A. Gibson
Established: 1986
Endowed: 1986

Sir Isaac Brock Music Scholarship

Value: \$365*. Awarded to the student with the highest sessional average entering the third- or fourth-year of a Music program.
Donor: Calgary Philharmonic Orchestra
Established: 1990
Endowed: 1990

Department: Philosophy**Affleck Memorial Prize in Philosophy**

Value: \$100*. Awarded to an outstanding fourth-year (honours) student on the basis of his or her whole record with the Department of Philosophy.
Donor: Relatives and friends of the late Mrs. Rheta Affleck
Established: 1972

Doris Senior Award

Application Required
Value: \$450*. Awarded to a mature student with a declared major in Philosophy who has completed a minimum of one credit. Students must demonstrate financial need and meet Ontario residency requirements. This award is made on academic merit by the Department of Philosophy.
Donor: Brock Philosophical Society
Established: 2002
Endowed: 2002

Edward and Sharon Arnold Bursary

Award Type: In-Course - Application Required
Value: \$425*. To be awarded annually to a student with a declared major in Philosophy. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Mr. Edward Arnold & Ms. Sharon Arnold
Established: 1997
Endowed: 1999

Father John Nota Scholarship

Application Required
Value: \$400*. Awarded by application to a student who has completed their second-year of study (10 full credits) upon entering third-year who has a declared major in Philosophy

and who has the highest overall grade average. If the student identified for receiving the Father John Nota Scholarship using the above criteria happens to have been the recipient of the Frederick William Ford Scholarship in their previous year, then the student with the second highest overall average should receive this award. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock Philosophical Society
Established: 1997
Endowed: 1997

Frederick William Ford Scholarship

Application Required
Value: \$425*. Awarded by application to a student who has completed their first-year of study (five full credits) upon entering second-year who has a declared major in Philosophy and who has the highest overall grade average. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Brock Philosophical Society
Established: 1997
Endowed: 1997

Mary Mac and Robert Malone Book Prize

Award Type: In-Course Award - Application Required
Value: \$140. Awarded to a student enrolled in Philosophy or Combined Philosophy. The student must have a proven interest in Plato, Daoism, and Existentialism, and will be selected by the Brock Philosophy Dept Chair. Must be an Ontario Resident and demonstrate financial need.
Donor: Dr David Goicoechea
Established: 2004

Professor Zygmunt Adamczewski Scholarship

Application Required
Value: \$400*. Awarded by application to a student who has completed their third-year of study (15 credits) upon entering fourth-year and is a declared major in Philosophy with the highest overall grade average. If the student identified for receiving the Professor Zygmunt Adamczewski Scholarship using the above criteria happens to have been the recipient of the Father John Nota Scholarship in their previous year, then the student with the second highest overall average should receive this award. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Brock Philosophical Society
Established: 1997
Endowed: 1997

Valerie Konopka-Bulanda Award

Application Required
Value: \$500*. Awarded annually to an entering student with a declared major in Philosophy, who has the highest admission average. Students must demonstrate financial

need and meet Ontario residency requirements. The award is made on the recommendation of the Department of Philosophy.

Donor: Brock Philosophical Society
Established: 2002
Endowed: 2002

Woodie (George) Woodwood Memorial Scholarship in Philosophy

Award Type: In-Course Scholarship - Application Required
Value: \$1145*. Awarded annually by application to a student majoring in Philosophy who has completed two full credits in either Greek or Latin languages. In the event that no candidates meet these criteria, then it is to be awarded to a student who is majoring in Philosophy and who has completed either one full credit or two half credits in either Greek or Latin languages. This award will not be made to the same student twice. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: The Family of George Woodwood
Established: 1997
Endowed: 1997

Department: Visual Arts**Arthur Houston Prize in Life Drawing**

Value: \$200. Awarded annually to a student in any year who has completed the best or most promising work in this area during the year in which the award is made. For the purposes of this prize, the term 'drawing' may refer to works executed in the traditional 'solid' media (pencil, charcoal, pastel, etc.) or, if in the view of the faculty of the Visual Arts Program this is appropriate, 'fluid' media (water colour, oil acrylic, etc.) as well. The Visual arts faculty only will determine the selection. The prize can take the form of a book or books or art supplies at the discretion of the student to whom the prize is awarded.
Donor: Dr. Arthur Houston
Established: 1999
Endowed: 1999

Elizabeth Miller Bursary

Award Type: In-Course Bursary - Application Required
Value: \$400*. Awarded annually, by application to a first-year student who is enrolled in Dramatic Arts (DART). Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Mary Jane Miller and Dr. Jack Miller in memory of Elizabeth Miller
Established: 1997

Janet Murray MacKenzie Memorial Bursary

Award Type: Entrance Bursary - Application Required
Value: \$1250*. Awarded annually to a student entering a program that is part of the

University's School of Fine and Performing Arts. The successful student must demonstrate academic merit (minimum average of 75 percent). The recipient must also demonstrate financial need and meet Ontario residency requirements. Recommended by the Dean of Humanities. Donor: David MacKenzie
Established: 2005

L. Amy Kerr Book Prize

Awarded to a student in any year in Film Studies or Dramatic Arts or Visual Arts, who has displayed strength in academics and participation in the university community. Established: 1992

Sylvia Osterbind Prize in Art History

Awarded to the student with the highest standing in Art History, normally with third- or fourth-year standing. Donor: (former Department of) Film, Dramatic Arts and Visual Arts
Established: 1989

Visual Arts Honours Scholarship

Award Type: In-Course Scholarship-Application Required
Value: \$1000*. Awarded annually to one or more full time student(s) entering their fourth year (Honours) of the Visual Arts program. Students must demonstrate financial need and meet Ontario Residency Requirements.

Visual Arts Scholarship

Award Type: In-Course Scholarship-Application Required
Value: \$325*. Awarded to a second- or third-year student with high academic standing and distinguished artistic achievement, who is entering a third- or fourth-year program in Visual Arts. The successful recipient must demonstrate financial need and meet Ontario residence requirements. Donor: The Late Dr. and Mrs. J.A. Gibson
Established: 1988

Warren Hartman Bursary

Application Required
Value: \$200*. Awarded annually, by application. To be divided equally between each of three outstanding students majoring in Dramatic Arts, in Film Studies and in Visual Arts, who have completed their first-year and are entering their second-year. Applicants must demonstrate financial need and meet Ontario residency requirements. Donor: Faculty and Staff, (former Department of) Film Studies, Dramatic and Visual Arts
Established: 1997
Endowed: 1997

FACULTY: MATHEMATICS AND SCIENCE

Faculty of Mathematics and Science Alumni Bursary

Award Type: In-Course Bursary - Application Required

Awarded to multiple students each year in the Faculty of Mathematics and Sciences in any year of study. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Faculty of Mathematics and Science Alumni through the Telegrad Program
Established: 2005

Department: Any

25th Anniversary Scholarships

Award Type: In-Course Scholarship
Value: \$1725* each. Awarded to the top student in each faculty returning to full-time studies in the fourth (honours) year. There is one award for each of the faculties of Business; Humanities; Mathematics and Science; Applied Health Sciences; and Social Sciences. Donor: Faculty and Staff of Brock University

Bertha and Bernard Harrison Living Legacy Scholarships

Award Type: Entrance Scholarship - Application Required
Value: \$5175*. Awarded annually to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences; and Social Sciences. Candidates for the Living Legacy Scholarships must meet Ontario residency requirements and show financial need. Donor: Estate of Bernard Harrison
Established: 2003
Endowed: 2003

Bertha and Bernard Harrison Scholarships

Award Type: Entrance Scholarship
Value: \$950* each. Five scholarships: awarded to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences and Social Sciences. Donor: Bertha and Bernard Harrison
Established: 1994
Endowed: 1994

Brock Arts and Science Bursary

Award Type: In-Course Bursary - Application Required
Value: \$650* The award will be made annually to an upper-year student at Brock University in an Arts or Science Degree. The award will rotate annually among the faculties of Humanities, Social Sciences and Mathematics and Science. Applicants must

demonstrate financial need and meet Ontario residency requirements. The award will be made on these terms by the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer. Donor: Brock Faculty Members
Established: 2002

Brock Arts and Science Entrance Scholarship

Award Type: Entrance Scholarship
Value: \$2900*. Awarded annually to a student entering their first year of study at Brock University in an Arts or Science Degree. The award will rotate annually among the faculties of Humanities, Social Sciences and Mathematics and Science. The recipient must demonstrate academic excellence in their final year of study at the secondary school level. Established: 2002
Endowed: 2002

Brock University Discover Science Scholarship

Award Type: Entrance Scholarship
Value: \$500
This non-renewable award is offered to selected students entering the Faculty of Mathematics and Science directly from secondary school in Ontario. Recipients must register for full time-study (3.0 credits) in the Fall/Winter academic session to retain the full value of the award. Donor: Brock University
Established: 2005

Brock University- Experience Science Award

Award Type: Entrance Award
Value: \$2000*. This non-renewable award is offered to selected students entering the Faculty of Mathematics and Science directly from secondary school or college in Antigua, Barbados, Bermuda and Mauritius. Recipients must register for full time-study (3.0 credits) in the Fall/Winter academic session to retain the full value of the award. This award will replace the Brock Scholars Award in the first year of study. Donor: The faculty of Mathematics and Science.
Established: 2008

Brock University - Science Fair Scholarship

Award Type: Entrance Scholarship
Value: up to \$24,000. Awarded to the top 3 senior division winners of regional to international Science Fair competitions. Recipients must be commencing their first undergraduate degree at Brock University to receive the award. The award can be deferred for one year. Award winners must have a minimum 80% admission average to qualify for the award. Renewal is based on a

minimum 80% average in the previous Fall/Winter session at Brock University. Regional winners will receive \$4,000, paid \$1,000 per year. National and International competition winners will be awarded the full cost of tuition, for 4 years plus first-year residence fees. Total value of award is approximately \$24,000.

Donor: Brock University
Established: 2006

Brock University Science Mentorship Scholarship

Award Type: Entrance Scholarship
Value: \$750

This non-renewable award is offered to students entering the Brock University directly from secondary school in Ontario who have successfully completed the Brock University Science Mentorship Program and have an admission average of 80% or higher. Recipients must register for full time-study (3.0 credits) in the Fall/Winter academic session to retain the full value of the award. The award will be pro-rated for students with less than full-time registration.

This award is in addition to any other entrance scholarships the student qualifies for.

Donor: Brock University
Established: 2005

Dean's Medal for Mathematics and Science

Award Type: Graduating Medal

Awarded to the student graduating with the highest cumulative overall average in the Faculty of Mathematics and Science (one in a pass degree, one in an honours degree). Graduates from the Spring and previous Fall Convocation are eligible. A minimum of 10 credits must be completed at Brock University and the graduate must be receiving their first honours degree. A minimum of 80 percent must be achieved.

Dr. Cora M. Briant Bursary for Women

Award Type: In-Course Bursary - Application Required

Value: \$1500*. Awarded annually by application to a female student in financial need who is continuing her studies in the sciences (not mathematics). Renewable in subsequent years contingent on recipient maintaining a minimum 75 percent average. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Dr. Cora M. Briant
Established: 1994
Endowed: 1994

Dr. Margaret Campbell Bursary
Application Required

Value: \$425*. Awarded annually to a first-year student who is enrolled in Science or Humanities. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Campbell and Company Insurance Consultants Ltd.

Established: 1996

Endowed: 1996

General Motors of Canada Limited Bursary
Award Type: Entrance Bursary - Application Required

Value: \$1050*. To be awarded annually to a first-year female or visible minority with demonstrated interest in Math and Science. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: General Motors of Canada Limited
Established: 1997
Endowed: 1998

Goldsmith-Wyatt Mathematics and Science Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$6000*. Awarded to a full-time student at the undergraduate or graduate level in the area of Mathematics or Science, who is a graduate of Niagara College of Applied Arts and Technology and who has both academic strength and financial need. If no applications are received from individuals meeting these criteria, the scholarship will be awarded to a student in the faculty of Mathematics and Science on the basis of financial need and academic merit.

Donor: Prof. E.E. Goldsmith and Mr. Alan Wyatt

Established: 1994
Endowed: 1994

Jaeger Family Bursary for Women

Award Type: Entrance Bursary - Application Required

Value: \$2000*. Awarded to a female student entering Brock University with a minimum average of 80 percent, majoring in natural sciences or mathematics. The award is renewable (provided the recipient maintains an 80 percent average) and is tenable with other awards. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: The Jaeger Family
Established: 1998
Endowed: 1998

Jesse A. Hecker Memorial Scholarship in Mathematics and Science

Award Type: Entrance Scholarship - Application Required

Value: \$1100*. To be awarded to a student entering the Faculty of Mathematics and Science with outstanding academic performance. The successful recipient must demonstrate financial need and meet Ontario residency requirements. The award will be

renewable to graduation conditional on the above conditions and maintaining a minimum average of 75%.

Donor: Anonymous
Established: 1999

Jill and Ian Brindle Perfeci Perseverantia Award

Award Type: In-Course Scholarship - Application Required

Value: \$1200. In even numbered years, in an Experimental Sciences program (Biology, Biochemistry, Biotechnology Earth Sciences, Neurosciences, Physics)

Donor: The Brindle Family honouring the memory of Charles White Williams (1811 - 1884) teacher and farmer, Huron Co. Ontario. "Perfeci Perseverantia" is the motto from the family's Coat of Arms, meaning, "I have accomplished through perseverance."
Established: 2005

John W. Bean and Kathryn Bean Becker Scholarship

Award Type: Entrance Scholarship - Application Required

Value: \$1260* each. Awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. In the Faculty of Education the award will be made to one student entering his/her final year of study. Candidates are nominated by the appropriate Dean. A one-page statement indicating your suitability for this award is required. For the Faculty of Education, the candidate must be registered in one of the University's Concurrent Education programs.

Donor: Estate of John W. Bean and Kathryn Bean Becker

Established: 1994
Endowed: 1994

Muller Bursary in Science

Award Type: In-Course Bursary - Application Required

Value: \$450*. Awarded to a 3rd or 4th year student who is enrolled in a double major in honours Science. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Dr. Eric Muller & Mr. Michael Muller

Established: 1997
Endowed: 1997

Ontario Paper Thorold Foundation Scholarship in Science

Award Type: Entrance Scholarship - Application Required

Value: \$1180*. Award to be made to a student entering the first year of Science. This award is renewable, contingent on the student maintaining a minimum "B" average in their program of study. Applicants must

demonstrate financial need and meet Ontario residency requirements.
Donor: The Ontario Paper Thorold Foundation
Established: 1997

Professor H.L. Holland Award in Biotechnology
Award Type: In-Course Award- Application Required
Value: \$700*. To be awarded annually, to a Brock University student entering fourth year of the Biotechnology or Chemistry program. Must be a student who demonstrates academic promise and merit (minimum overall average 80%). Must demonstrate financial need and Ontario Residency.
Donor: Family and Friends of Dr. Herbert Holland
Established: 2003

Technology Group (Machine and Electronic Shop) Scholarship
Award Type: In-Course Scholarship
Value: \$1345*. Awarded to a Canadian citizen whom is a first- or second-year Bachelor of Science student majoring in either Biological Sciences, Chemistry, Earth Sciences or Physics. (To be awarded to these departments on a rotating basis). The minimum average required for considered is 75 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Mr. Roland Seehagel and Mr. John Rustenburg
Established: 1996
Endowed: 1996

Terry and Sue White Scholarships
Award Type: In-Course Scholarship - Application Required
Value: \$1700* each. Four awards, one each to be made to a continuing student in the Faculty of Business, Humanities, Mathematics and Science, and Social Sciences. The award will be made to the student entering fourth-year with the highest cumulative average. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Terry White and Mrs. Susan White
Established: 1997
Endowed: 1997

Department: Biological Sciences

3M Bursary
Award Type: In-Course Bursary - Application Required
Value: \$950. Awarded annually to a student entering his/her graduate year of study in either Biology or Chemistry, who have

maintained grades establishing them in the top quartile of their program(s) and who are in need of financial assistance.
Donor: 3M Canada Inc.
Established: 1992

Betty and Gordon Vallee Scholarships
Award Type: Entrance Scholarship
Value: \$3375*. Two scholarships, to be awarded as entrance scholarships to students on the basis of academic merit and financial need with a declared major in History and/or Biological Sciences who have graduated from a Niagara Region secondary school. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Betty and Gordon Vallee
Established: 1994
Endowed: 1994

Biological Sciences Faculty Book Prizes
Award Type: In-Course Prize
Value: Varies. Awarded to the student achieving the highest grade in BIOL 1F90; the second- and third-year students receiving the highest marks in Biology courses; and the graduating honours students with the best overall record in Biology.

Society of Chemical Industry Merit Award
Award Type: In-Course Award
A medal awarded to an honours Chemistry student and an honours Biotechnology student with the highest standing in the graduating class, who have obtained a minimum average of 75 percent in their final year and who have completed the program in four years.
Donor: Society of Chemical Industry
Established: 1967

Dr. Arthur Wiebe Bursary
Award Type: In-Course Bursary - Application Required
Value: \$940*. Awarded annually to a student in the Biological Sciences program. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Arthur Wiebe
Established: 1997

Dr. M. S. Manocha Memorial Prize
Award Type: In-Course Prize
Value: \$100*. Awarded annually to a student graduating with an honours degree in Biology who plans to pursue an MSc in Biology at Brock University.
Donor: Family and Friends of Dr. M. S. Manocha
Established: 2000
Endowed: 2000

Professor H.L. Holland Award in Biotechnology
Award Type: In-Course Award- Application Required
Value: \$700*. To be awarded annually, to a

Brock University student entering fourth year of the Biotechnology or Chemistry program. Must be a student who demonstrates academic promise and merit (minimum overall average 80%). Must demonstrate financial need and Ontario Residency.
Donor: Family and Friends of Dr. Herbert Holland
Established: 2003

Professor Yousef Haj-Ahmad Scholarship in Biotechnology
Award Type: Entrance Scholarship- Application Required
Value: \$1700*. To be awarded to a student entering the Biotechnology program with the highest academic average with demonstrated financial need and Ontario Residency

Ursino Family Bursary
Award Type: In-Course Bursary - Application Required
Value: \$1300*. Made annually to a second or third year student who has a minimum 75 percent major average. Preference will be given to a student with a declared major in Biological Sciences. If no suitable applicant can be found, second preference will be given to a student in the Concurrent BSc/BEd program with a declared major in Science. Students must demonstrate financial need and meet Ontario residency requirements.
Donor: The Ursino Family in Memory of Joseph and Josephine Ursino
Established: 2001
Endowed: 2001

Department: Biotechnology

Professor H.L. Holland Award in Biotechnology
Award Type: In-Course Scholarship - Application Required
Value: \$700. To be awarded annually, to a Brock University student entering fourth year of the Biotechnology or Chemistry program. Must be a student who demonstrates academic promise and merit (minimum overall average 80%). Must demonstrate financial need.
Donor: Family and Friends of Dr. Herbert Holland.
Established: 2003

Department: Chemistry

3M Bursary
Award Type: In-Course Bursary - Application Required
Value: \$950. Awarded annually to a student entering his/her graduate year of study in either Biology or Chemistry, who have maintained grades establishing them in the top quartile of their program(s) and who are in need of financial assistance.
Donor: 3M Canada Inc.
Established: 1992

Blema Miller Book Prize

Award Type: In-Course Prize

Value: \$200. Awarded to a Chemistry major or combined major with the highest standing in second-year.

Donor: Professors Mary Jane Miller and Jack Martin Miller

Established: 1992

Brenda Gibson Prize

Award Type: In-Course Prize

Value: \$100. Awarded to the most insightful student in Science and Society (SCIE 1F30), or a corresponding Science elective offered by the Department of Chemistry.

Donor: Martin S. and Brenda R. Gibson

Established: 1994

Canadian Society for Chemistry Prize

Award Type: In-Course Prize

A silver medal and Institute book plates. Awarded to the student with the highest standing in the penultimate year of the honours Chemistry program.

Donor: Chemical Institute of Canada

Established: 1967

Dr. David Moule Award

Award Type: In-Course Award

Value: \$300*. Awarded to a chemistry or combined major student with the highest standing in year-two or year-three Physical Chemistry.

Donor: Mrs. Susan R. Moule, Mr. Christopher Moule, with family and friends, in honour of Professor David Moule.

Established: 1999

Endowed: 1999

E. A. Cherniak Founders Prize in Chemistry

Award Type: In-Course Prize

Value: \$300*. Awarded to the best third- or fourth-year Chemistry major or combined major.

Donor: Faculty and Staff, Department of Chemistry

Established: 1993

Endowed: 1993

Gail I. Neff Award: Chemistry Demonstrator of the Year

Award Type: In-Course Award

Value: \$300*. Awarded to the best chemistry lab demonstrator or senior demonstrator. Nominations must be supported by student evaluations. May be awarded only once to any given individual.

Donor: Dr. Mary Frances Richardson

Established: 1993

Endowed: 1993

Hiatt Bursary in Chemistry

Award Type: In-Course Bursary - Application Required

Value: \$550*. Awarded annually, by application to a student who is majoring in

Chemistry or a Chemistry related program (joint majors, BSc/BEEd, Biochemistry, Biotechnology, Chemistry stream of Environmental Sciences, etc.). Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Faculty and Staff, Chemistry Department

Established: 1996

Endowed: 1996

M. J. (Mel) Farquharson Scholarship

Award Type: In-Course Scholarship

Value: \$1000*. Awarded to the student with the highest average in Chemistry courses entering the third- or fourth-year of a single or combined major in Chemistry. Candidates are recommended by the Chair of Chemistry.

Donor: Mrs. Jan Farquharson and friends

Established: 1992

Endowed: 1992

Martin S. Gibson Scholarship

Award Type: In-Course Scholarship

Value: \$150*. Awarded to students approaching the end of third-year (14 or 15 credits completed) with at least a 75 percent average. First preference to a student in which Chemistry is an integral part of their program of study (currently Chemistry single and combined majors and Biotechnology). Second preference to other students in the Faculty of Mathematics and Science.

Donor: Department of Chemistry colleagues of Dr. Gibson

Established: 1993

Endowed: 1996

Mary Rixey Richardson Bursary

Award Type: In-Course Bursary - Application Required

Value: \$400*. Awarded by application to a student in Chemistry (single or joint major) who shows academic promise (70 percent or higher average). Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Dr. Mary Frances Richardson

Established: 1996

Endowed: 1996

Professor H.L. Holland Award in Biotechnology

Award Type: In-Course Scholarship - Application Required

Value: \$700. To be awarded annually, to a Brock University student entering fourth year of the Biotechnology or Chemistry program. Must be a student who demonstrates academic promise and merit (minimum overall average 80%). Must demonstrate financial need.

Donor: Family and Friends of Dr. Herbert Holland.

Established: 2003

Scholler Foundation Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1500*. Awarded to a student of honours standing majoring in Chemistry.

Donor: Scholler Foundation

Established: 1973

Endowed: 1973

Society of Chemical Industry Merit Award

Award Type: In-Course Award

A medal awarded to an honours Chemistry student and an honours Biotechnology student with the highest standing in the graduating class, who have obtained a minimum average of 75 percent in their final year and who have completed the program in four years.

Donor: Society of Chemical Industry

Established: 1967

Department: Computer Science**Acres International Award**

Award Type: In-Course Award - Application Required

Value: \$650*. Awarded by application to a senior Computer Science student. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Acres International Limited

Established: 1997

Endowed: 1997

Department of Computer Science Book Prizes

Award Type: In-Course Prize

Four book prizes; awarded to the student in each year with the highest marks in Computer Science courses.

Established: 1981

General Motors of Canada Brock Scholars Award

Award Type: Entrance Scholarship - Application Required

Value: \$2250*. Awarded annually to a first-year student enrolling in Computer Science, Computing and Business, or Computing and Solid State Device Technology. Students must have a minimum 75% admission average to qualify and preference will be given to students with disabilities, aboriginal students and female students in these programs. Students must maintain a 75% average to renew the award.

Donor: General Motors of Canada Limited

Established: 2001

Endowed: 2001

Hank van Rotterdam Bursary

Award Type: In-Course Bursary - Application Required

Value: \$2000*. Awarded annually to an entering first year student with a declared major in Computer Science. Applicants must demonstrate academic success and financial

need and meet Ontario residency requirements.

This award was established by family, friends and colleagues of Hank van Rotterdam, to remember his kindness, thoughtful nature, beautiful smile, fine intellect, professionalism and enjoyment of life and its many offerings. As well as his love for Brock University.

Donor: Friends and Family of Hank van Rotterdam

Established: 2002

Information Technology Services Bursary

Award Type: In-Course Bursary - Application Required

Value: \$400*. Awarded annually to a Computer Science student in their second- or third-year of study, who has a minimum 75 percent average. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Faculty, Staff and Friends of Information Technology Services

Established: 1996

Endowed: 1997

Silicon Knights Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$2000. Awarded annually to a third- or fourth-year student on the basis of academic merit with a declared major in Computer Science. Only students pursuing their first degree are eligible. Selection will be based on recommendation from the Chair of the Computer Science Department.

Donor: Silicon Knights Inc.

Established: 2000

Department: Earth Sciences

Brian Parker Memorial Award

Award Type: In-Course Award - Application Required

Value: \$1600*. Awarded, on the basis of academic excellence and extracurricular involvement, to a student completing third-year of the Environmental Geosciences stream of the Earth Sciences Program. If no suitable candidate is found from the Environmental Geosciences stream, the award may be made to any qualified student from the Earth Sciences Program.

Donor: Family and friends of the late Brian Parker

Established: 1994

Endowed: 1994

Canadian Society of Petroleum Geologists Book Prize

Award Type: In-Course Prize

Awarded to the best undergraduate student in a petroleum related field, usually at the fourth-year (honours) level.

Donor: The Canadian Society of Petroleum Geologists

Canadian Society of Petroleum Geologists Student-Industry Field Trip

Award Type: In-Course Prize

A prize of a one-week field trip to Calgary, for the best third-year student in "soft-rock" geology.

Donor: The Canadian Society of Petroleum Geologists

Earth Sciences Award

Award Type: In-Course Award

Awarded by the Department of Earth Sciences to students with the highest average in second-, third- or fourth-year Earth Sciences.

Ed Mirynech Bursary

Award Type: In-Course Bursary - Application Required

Value: \$300*. Awarded to a full-time Earth Science major in their second or third year who has most improved in their studies. Applicants must demonstrate financial need.

Donor: Dr. E. Mirynech, friends & Family in memory of Dr. Mirynech

Established: 1984

Endowed: 1984

Edhorn Prize in Paleontology

Award Type: In-Course Prize

Value: \$100*. Awarded to the full-time student with the highest grade in a first course in paleontology.

Donor: Department of Earth Sciences

Established: 1985

Geological Association of Canada Book Prize

Award Type: In-Course Prize

Awarded to the best third-year student in Earth Sciences.

Donor: Geological Association of Canada

J.P. Bickell Foundation Entrance Scholarship

Award Type: Entrance Scholarship

Value: \$1000*. Awarded to the entering student with the highest admission average into Honours Earth Sciences Program.

Donor: J.P. Bickell Foundation

Established: 1968

Endowed: 2002

Mineralogical Association of Canada Book Prize

Award Type: In-Course Prize

Membership in the M.A.C. and a subscription to Canadian Mineralogist. Awarded to the student with the highest grade in a first course in mineralogy.

Donor: Mineralogical Association

Peter Peach Memorial Award

Award Type: In-Course Award

Value: \$150*. Awarded to the student with the highest mark at field camp - ERSC 3P99.

Donor: Department of Earth Sciences

Professor Bruce A. Liberty Memorial Bursary

Award Type: In-Course Bursary - Application Required

Application Required

Value: \$500*. To be distributed by the Department of Earth Sciences to worthy undergraduate or graduate students, who have demonstrable need and a satisfactory record (normally a major average of 70 percent or better).

Donor: Friends of the late Professor Liberty

Established: 1982

Prospectors and Developers Assoc. of Canada Student-Industry Mineral Exploration Workshop Award

Award Type: In-Course Prize

A prize of a two-week field trip for the best third or fourth year student in "hard-rock" geology.

Donor: The Prospectors and Developers Association of Canada

Simon Haynes Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: varies. To be awarded to a student entering his/her second year in Brock University's Earth Science program. Student must maintain satisfactory academic standing and demonstrate financial need.

Donor: Family of Simon Haynes

Established: 2004

Endowed: 2004

Walker Brothers Award

Award Type: In-Course Award

Value \$400*. Awarded to a student in second-, third- or fourth-year majoring in Earth Sciences, on the basis of academic excellence and need.

Donor: Clarkson Gordon, Chartered Accountants

Established: 1988

Department: Geography

Dr. Gerald Nash Geography Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1,000. Awarded to a single or combined Geography student, entering third year, who demonstrates financial need and academic success.

Donor: Dr. Gerald and Mrs. Donna Nash

Established: 1996

Endowed: 1996

Department: Mathematics

Ian D. Beddis Family Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1200*. Awarded annually to a third-

or fourth-year student who is specializing in Mathematics or Economics and who is actively involved in Brock University extra-curricular activities. Applicants must have a minimum average of 75 percent. Applicants must also demonstrate financial need and meet Ontario residency requirements.

Donor: Ian D. Beddis & Family

Established: 1997

Endowed: 1997

Henry J. Nur Bursary in Mathematics and Physics

Award Type: In-Course Bursary - Application Required

Value: \$600. Awarded annually to a student entering 2nd, 3rd, or 4th year of an honours program in mathematics or physics (both single and joint majors are eligible). The successful student must demonstrate financial need and academic merit (minimum average 75%). He/She must also meet Ontario residency requirements.

Donor: Henry J. Nur, B.Sc (Mathematics/Physics), Brock University, 1974

Established: 2005

Endowed: 2005

John and Roslyn Reed Book Prizes

Award Type: In-Course Prize

Two book prizes; Awarded to one female and one male student, graduating with first-class honours in Mathematics.

Donor: J. W. Reed

Established: 1991

Leroy Langdon Richardson Bursary

Application Required

Value: \$500*. Awarded by application to a student entering year 2, 3 or 4 in Mathematics or Physics who shows academic promise (75 percent or higher average). Single and joint majors are eligible. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Dr. Mary Frances Richardson

Established: 1996

Endowed: 1996

Shao Chien Chang Book Bursary

Award Type: In-Course Bursary - Application Required

Value: varies. Awarded annually to a full-time student in any year of study, majoring in Mathematics at Brock University who demonstrates financial need and has satisfactory academic standing.

Donor: Professor Emeritus Shao Chien Chang

Established: 2004

Department: Neuroscience

Vincent Fitzgibbon - Brain Injury Community Re-entry (Niagara) Inc. Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500*. Awarded annually to a student

majoring in Psychology or Neuroscience at Brock University. Candidates must demonstrate financial need. Preference will go to a student enrolled in an honours program in the 3rd or 4th year, or to a graduate student, who is interested in pursuing the field of brain injury rehabilitation and demonstrates community involvement or work related experience in the social/health services field.

Donor: Brain Injury Community Re-entry (Niagara) Inc.

Established: 2002

Endowed: 2003

Department: Oenology and Viticulture

Alumni CCOVI Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1500*. Awarded annually to an applicant at the Cool Climate Oenology and Viticulture Institute in their first year of study; the applicant is to be a member of the Brock University Alumni Association with a minimum of 75 percent average. If there are no candidates who satisfy the above in any given academic year then the award will be made to an applicant to the program in their first year who has graduated from a recognized university with a minimum 75 percent average. If there are no candidates who satisfy the above in any given academic year then the award will be made to a student in their second year of study in the BSc OEVI Program who has maintained a 75 percent average in their first year of study. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Brock University Alumni Association and Friends

Established: 1997

Endowed: 1997

Canadian Vintners Association Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1000. The award will be made annually to the most outstanding, deserving student in Oenology and Viticulture (with a focus on oenology) moving from 3rd year to 4th year of the B.Sc (Honours) in OEVI. The award is judged on student achievement (grades and co-op placement evaluation).

Donor: Canadian Vintners Association

Established: 2004

Chateau Des Charmes Wines Scholarship

Award Type: In-Course Scholarship - Application Required

Value: \$1000*. Awarded by application to a student who is completing their third-year of the Oenology and Viticulture Program. Applicants must demonstrate financial need and meet Ontario residency requirements. Qualified applicants may be offered employment with Chateau des Charmes.

Donor: Chateau Des Charmes Wines Ltd.

Established: 1997

Endowed: 1997

Dante Marinelli Oenology and Viticulture Book Prize

Award Type: In-Course Prize

Value: \$125. Awarded in memory of Dante Marinelli to a student or students in the Oenology and Viticulture Program.

Donor: Broderick & Partners

Established: 1997

Domenica and Andy Panko Scholarship in Oenology and Viticulture

Award Type: Entrance Scholarship - Application Required

Value: \$2575*. To be awarded annually, by application to an outstanding Niagara area student who is entering or transferring into the Oenology and Viticulture program. Should no qualifying students apply from this program, the award will be available to an outstanding student entering, in the first instance, the Earth Sciences program, in the second instance, the Department of Chemistry. If no Niagara students apply, the geographic scope may be broadened to Ontario. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Mrs. Domenica and Dr. Andy Panko

Established: 1996

Endowed: 1996

Dr. Simon Haynes Soil Science Book Prize

Award Type: In-Course Prize

Value: \$124*. Awarded annually to a Brock University student in the Oenology and Viticulture program (degree or certificate). The successful recipient will be the student with the highest mark in OEVI 2P97 - Introduction to Soil Science (or the successor course). In the event that more than one student meets these criteria, the award will be made to the student who has completed the greatest number of OEVI courses. If no student meets the above criteria, the award will be made to the Earth Science major with the highest average.

Donor: Brian and Kathy Grant, in recognition of Dr. Haynes' contribution to the study of Terroir in Niagara.

Established: 2005

Grape Growers of Ontario Scholarship

Award Type: Entrance & In-Course Scholarship - Application Required

Value: \$1300*. Awarded by application with preference given to a first-year or upper year student enrolled as an undergraduate in the Oenology Viticulture program who's family are grape grower members of the Grape Growers of Ontario. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Grape Growers of Ontario

Established: 1997

Jackson-Triggs Scholarship

Award Type: Entrance Scholarship
 Value: \$1250. Awarded annually to two students, one from eastern Canada and one from western Canada, entering the Oenology and Viticulture degree program.
 Donor: Vincorp International Inc.
 Established: 1999

Katherine and Jacob Hildebrand Scholarship

Award Type: Entrance Scholarship - Application Required
 Value: \$2000. Awarded to an outstanding student entering the Oenology and Viticulture program. If there is no qualified applicant, any student entering the Faculty of Mathematics and Science will be considered. Applicants must demonstrate financial need and meet Ontario residency requirements. The award is renewable in each undergraduate year of full-time study, provided satisfactory academic standing is maintained (75% average), and financial need is demonstrated.

Donor: Katherine and Jacob Hildebrand
 Established: 1998
 Endowed: 1998

Margaret Woodrow Bursary

Award Type: Entrance Bursary - Application Required
 Value: \$600*. Awarded annually by application to a student entering first-year in the Oenology and Viticulture Program. Preference will be given to students who are from the Niagara Region. Applicants must demonstrate financial need and meet Ontario residency requirements.
 Donor: First Ontario Credit Union Limited
 Established: 1997
 Endowed: 1997

Ontario Wine Society Prize in Oenology and Viticulture

Award Type: In-Course Prize
 Awarded annually to a third-year student in the Oenology and Viticulture program at Brock University, on the basis of academic merit, based on the recommendation of the Chair of Oenology & Viticulture.
 Donor: Ontario Wine Society
 Established: 1998
 Endowed: 2005

Roy Cairns Scholarship

Award Type: Entrance Scholarship - Application Required
 Value: \$5000*. Awarded annually, by application to a student who is entering first year in the Oenology and Viticulture Program. If there is no qualified applicant from Oenology and Viticulture, then may be awarded to an outstanding student entering the Faculty of Math and Science. Applicants must demonstrate financial need and meet

Ontario residency requirements.

Donor: Roy Cairns
 Established: 1997
 Endowed: 1997

Royal Bank Scholarship

Award Type: In-Course Scholarship - Application Required
 Value: \$2100*. Awarded by application to an upper year student enrolled in the Oenology and Viticulture Program who demonstrates academic excellence. Applicants must demonstrate financial need and meet Ontario residency requirements.
 Donor: Royal Bank of Canada
 Established: 1997
 Endowed: 1997

Sullivan Mahoney Scholarship

Award Type: Entrance Scholarship - Application Required
 Value: \$1500*. Awarded annually, by application to an incoming student who is enrolled in the Oenology and Viticulture program. Applicants must demonstrate financial need and meet Ontario residency requirements.
 Donor: Sullivan Mahoney
 Established: 1997
 Endowed: 1997

Susan Bennett Memorial Award

Award Type: Entrance Award- Application Required
 Value: \$1250*. Awarded annually to a student entering the Certificate Program in Grape and Wine Technology. Preference will be to a female student and selection will be based on the Director of the Cool Climate Oenology and Viticulture.
 Donor: Sylvie Tran
 Established: 2008

Department: Physics

Colin Plint Scholarship

Award Type: In-Course Scholarship-Application Required
 Value: \$5000*. Awarded annually to a senior Brock University student, with preference to a student in the Physics program. If no candidate can be found from the Physics program, then the award will be made to a student in either the Biology or Earth Science program. The successful student must demonstrate academic merit, financial need and meet Ontario residency requirements.
 Donor: The Friends and Family of Colin Plint
 Established: 2004

Henry J. Nur Bursary in Mathematics and Physics

Award Type: In-Course Bursary - Application Required
 Value: \$600. Awarded annually to a student entering 2nd, 3rd, or 4th year of an honours program in mathematics or physics (both

single and joint majors are eligible). The successful student must demonstrate financial need and academic merit (minimum average 70%). He/She must also meet Ontario residency requirements.

Donor: Henry J. Nur, B.Sc (Mathematics/Physics), Brock University, 1974
 Established: 2005
 Endowed: 2005

Laura and John Moore Bursary

Award Type: In-Course Bursary - Application Required
 Value: \$475*. Awarded firstly to an honours Physics student entering 3rd or 4th year. Secondly, to a combined honours Physics major entering 3rd or 4th year. Thirdly, to an honours student in the Faculty of Mathematics and Science who is entering 3rd or 4th year. Students must be residents of Ontario as deemed by the Ontario Student Assistance Program and have satisfactory academic standing.
 Donor: Dr. John and Mrs. Laura Moore
 Established: 1997

Leroy Langdon Richardson Bursary

Application Required
 Value: \$500*. Awarded by application to a student entering year 2, 3 or 4 in Mathematics or Physics who shows academic promise (70 percent or higher average). Single and joint majors are eligible. Applicants must demonstrate financial need and meet Ontario residency requirements.
 Donor: Dr. Mary Frances Richardson
 Established: 1996
 Endowed: 1996

Lubrizol Canada Ltd. Scholarship

Award Type: In-Course Scholarship
 Value: \$550* each. Awarded to students of honours standing entering the second, third or fourth-year of a Physics program.
 Donor: Lubrizol Canada Ltd.
 Established: 1971
 Endowed: 1971

Physics Book Prize

Award Type: In-Course Prize
 Awarded to one or more outstanding students in physics.

FACULTY: SOCIAL SCIENCES

Department: Any

25th Anniversary Scholarships

Award Type: In-Course Scholarship
 Value: \$1700*. Awarded to the top student in each faculty returning to full-time studies in the fourth (honours) year. There is one award for each of the faculties of Business; Humanities; Mathematics and Science; Applied Health Sciences; and Social Sciences.
 Donor: Faculty and Staff at Brock

Bertha and Bernard Harrison Living Legacy Scholarships

Award Type: Entrance Scholarship - Application Required
Value: \$5175*. Awarded annually to students with outstanding academic achievement, entering each of the faculties of Humanities; Mathematics and Science; Business; Applied Health Sciences; and Social Sciences. Candidates for the Living Legacy Scholarships must meet Ontario residency requirements and show financial need.
Donor: Estate of Bernard Harrison
Established: 2003
Endowed: 2003

Bertha and Bernard Harrison Scholarships

Award Type: Entrance Scholarship
Value: \$950* each. Awarded to students with outstanding academic achievement, entering the Faculty of Applied Health Sciences.
Donor: Bertha and Bernard Harrison
Established: 1994
Endowed: 1994

Brock Arts and Science Bursary

Award Type: In-Course Bursary - Application Required
Value: \$650* The award will be made annually to an upper-year student at Brock University in an Arts or Science Degree. The award will rotate annually among the faculties of Humanities, Social Sciences and Mathematics and Science. Applicants must demonstrate financial need and meet Ontario residency requirements. The award will be made on these terms by the Brock University Senate Committee on Undergraduate Student Affairs, based on the recommendation of the Bursary Officer.
Donor: Brock Faculty Members
Established: 2002

Brock Arts and Science Entrance Scholarship

Award Type: Entrance Scholarship
Value: \$2900*. Awarded annually to a student entering their first year of study at Brock University in an Arts or Science Degree. The award will rotate annually among the faculties of Humanities, Social Sciences and Mathematics and Science. The recipient must demonstrate academic excellence in their final year of study at the secondary school level.
Established: 2002
Endowed: 2002

Dean's Medal for Social Sciences

Award Type: Graduating Medal
Awarded to the student graduating with the highest cumulative overall average in the Faculty of Applied Health Sciences (one in a pass degree, one in an honours degree). Graduates from the Spring and previous Fall Convocation are eligible. A minimum of 10 credits must be completed at Brock

University and the graduate must be receiving their first honours degree. A minimum of 80 percent must be achieved.

Faculty of Social Sciences Teaching Assistant Award

Award Type: Open
Value: \$200*. The award will be made to a teaching assistant (defined as seminar/tutorial leaders and lab demonstrators) who have demonstrated a commitment to assisting undergraduate students in reaching their educational goals. Teaching assistants (TAs) who are eligible must exhibit exceptional commitment to learning and teaching at Brock University. This includes showing that they are dedicated to learning in the Social Sciences, sharing information about Social Sciences with their students and the community of learners within the Faculty of Social Sciences, and actively developing their teaching skills to enhance their teaching ability. All teaching assistants are considered eligible for these awards (eg. Undergraduate students, Graduate students, non-students). A Teaching Assistant is only eligible for this award once every five years.
Donor: Office of the Dean of Social Sciences
Established: 2008

Jesse A. Hecker Memorial Scholarship in Social Sciences

Award Type: Entrance Scholarship - Application Required
Value: \$1100. To be awarded to a student entering the Faculty of Social Sciences with outstanding academic performance. The successful recipient must demonstrate financial need and meet Ontario residency requirements. The award will be renewable to graduation conditional on the above conditions and maintaining a minimum average of 75 percent.
Donor: Anonymous
Established: 1999
Endowed: 1999

John W. Bean and Kathryn Bean Becker Scholarships

Award Type: In-Course Scholarship - Application Required
Value: \$1260* each. Awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. In the Faculty of Education the award will be made to one student entering his/her final year of study. Candidates are nominated by the appropriate Dean. A one-page statement indicating your suitability for this award is required. For the Faculty of Education, the candidate must be registered in one of the University's Concurrent Education programs
Donor: Estate of John W. Bean and Kathryn Bean Becker
Established: 1994
Endowed: 1994

Social Science Alumni Bursary

Award Type: In-Course Bursary
Value: \$1800*. To be awarded to two Faculty of Social Sciences students in any year of study that can demonstrate financial need and meet Ontario residency requirements
Donor: Faculty of Social Sciences Alumni through the Telegrad Program
Established: 2005

Terry and Sue White Scholarships

Award Type: In-Course Scholarship - Application Required
Value: \$1700* each. Four awards, one each to be made to a continuing student in the Faculty of Business, Humanities, Mathematics and Science, and Social Sciences. The award will be made to the student entering fourth-year with the highest cumulative average. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Dr. Terry White and Mrs. Susan White
Established: 1996
Endowed: 1997

Department: Child and Youth Studies

Child and Youth Studies Book Prizes

Award Type: In-Course Prize
Awarded to the graduating students with the highest major averages in the pass and honours Child and Youth Studies programs; the graduating student with the highest overall average in the BA/BEd (Child and Youth Studies) program; and the graduating students who have made the most outstanding extracurricular contributions to Child and Youth Studies.

Child and Youth Studies Honours Award

Award Type: In-Course Award
Value: \$325*. Awarded to the student with the highest Child and Youth Studies major average entering the honours year of a single or combined major in Child and Youth Studies.
Donor: Department of Child and Youth Studies
Established: 1996
Endowed: 1996

Dr. Udayan Rege Award

Award Type: In-Course Award - Application Required
Value: \$500*. Awarded annually to the Brock University student with the highest mark in the 3P60 Autism course (or its successor course if this course ceases to exist). The recipient must demonstrate academic merit (minimum overall average 75%) and be pursuing either the Concurrent BA/Bed program Child and Youth Studies, or has completed the undergraduate degree program in Child and Youth Studies and is entering

the Faculty of Education's Pre-Service year. Recipient must demonstrate financial need and meet Ontario residency requirements. Donor: Mrs. Vasavadatta (Kanchan) Rege
Established: 2004
Endowed: 2005

Kimberly Wells Memorial Book Prize
Value: \$100*. Awarded to a student graduating from the BA/BEEd (Child and Youth Studies) program, who displays strength in academics and participation in the University community.
Donor: The family and friends of Kimberly Wells
Established: 1992
Endowed: 1992

Margaret A. Clifford Memorial Award
Award Type: In-Course Award - Application Required
Value: \$540*. Awarded annually by application, to a student who has been admitted to the BA/BEEd Child and Youth Studies Concurrent program. Preference is given to a student who is planning to focus on Special Education. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: K. Mary Clifford
Established: 1997
Endowed: 1997

Department: Communications, Popular Culture and Film

Anita Skinner Bursary in Communications Studies
Award Type: In-Course Bursary - Application Required
Value: \$450. Awarded annually to a student entering third year of the Communications Studies program at Brock University. Granted on the basis of financial need and academic excellence. Preference is given to a student from the Niagara Region.
Donor: Ms. Anita Skinner
Established: 2002

Anne Perozuk Book Prize in Critical Writing
Award Type: In-Course Prize
Awarded for excellence in an essay submitted by a student in a second- or third-year FILM course. Consult the department for details.
Donor: Joan Nicks
Established: 1993

Bohdan Szuchewycz Prize in Communication Studies
Award Type: In-Course Award
Value: \$75. Awarded to a full-time student entering their Honours year, in Communication Studies, with the highest major average upon completing third year, with the recommendation of the Chair of the Department of Communications, Popular Culture and Film.
Donor: Family and Friends of Bohdan

Szuchewycz & the Faculty and Staff of Brock University
Established: 2005

David R. Wills Bursary in Communication Studies
Award Type: Entrance Bursary - Application Required
Value: \$900*. Awarded to a student entering into a degree in Communications Studies, preference from Centennial High School, Welland, Ontario. Applicants must demonstrate financial need, be in good academic standing, and meet Ontario residency requirements. Applicants must also confirm they are non-smokers.
Donor: Mr. David Wills
Established: 1996
Endowed: 1996

E.S. Rogers Communications Inc. Entrance Scholarship
Award Type: Entrance Scholarship
Value: \$1000*. Awarded to a student entering first-year studies with outstanding academic performance and a declared major in Communications Studies where no other scholarship is available to the student.
Donor: Rogers Communications Inc.
Established: 1995
Endowed: 1995

E. S. Rogers Communications Inc. In-Course Scholarships
Award Type: In-Course Scholarship
Value: \$500*. Three scholarships awarded to students with outstanding academic performance in the first-year of Communication Studies with a declared major in the program.
Donor: Rogers Communications Inc.
Established: 1995
Endowed: 1995

Ken Boyle Cobra Radio Memorial Book Prize
Award Type: In-Course Prize
Value: \$100. Awarded to a graduating student with an outstanding record in Communications, Popular Culture and Film.
Donor: C.O.B.R.A. Canadian Operators
Established: 1993
Endowed: 1993

L. Amy Kerr Book Prize
Award Type: In-Course Prize
Awarded to a student in any year in Film Studies, Dramatic Arts or Visual Arts who has displayed strength in academics and participation in the University community.
Established: 1992

Lou Cahill Scholarship in Communications
Award Type: Graduating Scholarship - Application Required

Value: \$1250. Awarded annually to a student graduating from Brock University's Communications program. The successful recipient will have demonstrated commitment to academic excellence, community and involvement and/or participation in charitable activities.
Donor: The Communications and Public Relations Foundation and Enterprise Canada
Established: 2006

Sumner and Helen Grant Award in Popular Culture
Award Type: In-Course Award
Value: \$100. Awarded annually to a Popular Culture major or combined in third or fourth year for outstanding academic achievement.
Donor: Professor Barry Grant
Established: 2000

Warren Hartman Bursary
Award Type: In-Course Bursary - Application Required
Value: \$200*. Awarded annually, by application. Divided equally between each of three outstanding students majoring in Dramatic Arts, and in Film Studies and in Visual Arts, who have completed their first year and are entering their second year. Applicants must demonstrate financial need and meet Ontario residency requirements.
Donor: Faculty and Staff, (former Department of) Film Studies, Dramatic and Visual Arts
Established: 1997
Endowed: 1997

Department: Economics

Department of Economics Book Prize
Award Type: In-Course Prize
Awarded to a graduating student in Economics, Business Economics or Environmental Economics who has demonstrated outstanding achievement in economics.

Ian D. Beddis Family Scholarship
Award Type: In-Course Scholarship - Application Required
Value: \$1120*. Awarded annually to a third- or fourth-year student who is specializing in Mathematics or Economics and who is actively involved in Brock University extra-curricular activities. Applicants must have a minimum average of 75 percent. Applicants must also demonstrate financial need and meet Ontario residency requirements.
Donor: Ian D. Beddis & Family
Established: 1997
Endowed: 1997

Jason Ross Taylor Memorial Scholarship
Award Type: In-Course Scholarship - Application Required

Value: \$1400. Awarded annually to a Brock University student in any year of study, registered in the Economics program. The successful candidate must demonstrate academic merit. Must demonstrate financial need and meet Ontario residency requirements.

Donor: Family of Jason Ross Taylor
Established: 2006

Thomas Clifford (Bud) Kells Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500*. Awarded by application to a student in their second-year or subsequent year with a declared major in Economics and who has maintained a minimum average of 70 percent in the program. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Daniel Pembleton
Established: 1997
Endowed: 1997

Department: Geography

Canadian Association of Geographers Book Prize

Award Type: In-Course Prize

Awarded to the best graduating student in the fourth-year honours program of the Department of Geography.

Donor: Canadian Association of Geographers.
Established: 1967

Canadian Association of Geographers (CAG) 2000 Prize

Award Type: In-Course Prize

Value: \$100*. Two awards made annually: one to a student with the highest overall average entering the third year of a Bachelor of Arts program with a major in Geography or Human Geography; the second will be awarded to a student with the highest overall average entering the third year of a Bachelor of Science program with a major in Geography or Physical Geography.

Donor: Department of Geography
Established: 2001

Department of Geography Graduating Prize

Award Type: In-Course Prize

Value: \$80. Geographical books or equipment, awarded to the student in honours Geography who attained the highest average in third- and fourth-year Geography. This award may be given to the winner of the Canadian Association of Geographers Book Prize.

Donor: Department of Geography

Department of Geography Year 3 Book Prize

Award Type: In-Course Prize

Value: \$40*. Awarded to a third-year student in Geography in recognition of both high

academic achievement and contribution to the University community.

Donor: Department of Geography
Established: 1986

Dr. Gerald Nash Geography Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1,000. Awarded to a single or combined Geography student, entering third year, who demonstrates financial need and academic success.

Donor: Dr. Gerald and Mrs. Donna Nash
Established: 1996
Endowed: 1996

Edythe and William Meeker Memorial Book Prize

Award Type: In-Course Prize

Value: \$80*. Awarded to the BA or BSc student with a single major in Geography who is entering the fourth-year (honours), with the highest overall average.

Donor: Professor J. P. Meeker
Established: 1971

Gary Cornelius Bursary in Geography

Award Type: In-Course Bursary - Application Required

Value: \$1500*. Awarded to an upper year student in Geography. Applicants must demonstrate financial need and have satisfactory academic standing.

Donor: Mr. Gary Cornelius
Established: 1996
Endowed: 1996

Helen S. Bremner and the Bremner Family Memorial Scholarships

Award Type: In-Course Scholarship

Value: \$1000*. Two scholarships: one awarded to a student majoring in English, the other to a student majoring in Geography. The recipients will be entering their third- or fourth-year, will have made a significant contribution to extracurricular activities and must not have received other major awards.

Donor: Mr. James M. Bremner
Established: 1994
Endowed: 1996

John and Kathleen Jackson Award

Award Type: In-Course Award - Application Required

Value: \$1800. Awarded annually to a second, third or fourth year Geography student at Brock University. The successful recipient must demonstrate academic merit (minimum overall average 75%), financial need and meet Ontario residency requirements. Preference to a student studying Human Geography.

Donor: Dr. John N. Jackson, First Chairman, Department of Geography and Mrs. Kathleen Jackson.
Established: 2004
Endowed: 2004

Marie and Laurence Barber Award

Award Type: In-Course Award

Value: \$650*. Awarded to a student entering their second- or third-year of study in any field of Geography. Priority will be given to a student resident of Ontario who attended a Niagara Region or Grey Bruce County school. The award recipients will be chosen on the basis of academic merit.

Donor: The Barber Family
Established: 1995
Endowed: 1995

Department: Labour Studies

Terry Meagher Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: \$3000* Awarded annually to a Brock University student in the Labour Studies degree program (either three-year or four-year). The successful recipient must demonstrate financial need and must also demonstrate academic merit.

Donor: Friends of Terry Meagher
Established: 2004

Wally Majesky Labour Studies Bursary

Award Type: In-Course Bursary - Application Required

Value: \$750. Awarded annually to a full-time student in the Labour Studies undergraduate degree program. Recipients must have completed at least one full year of study, with a minimum cumulative B average. Applicants must demonstrate financial need. Preference will be given to students who have demonstrated leadership in the social justice movement.

Donor: The Workers Health and Safety Centre and Building Trades Union, Toronto Ontario
Established: 2004

Department: Policing and Criminal Justice

Regional Municipality of Niagara Police Services Board Entering Year Bursary

Award Type: Entrance Bursary - Application Required

Value: \$450. Awarded annually to a student who is a resident of the Niagara region, entering the Collaborative Study in Policing and Criminal Justice program at Brock University. Selection will be determined by the Bursary Officer, based on the recommendations of the Policing and Criminal Justice Admissions Committee. Applications will be screened by the Bursary Officer for financial need and Ontario residency before being forwarded to the committee.

Donor: Regional Municipality of Niagara Police Services Board
Established: 2005
Endowed: 2005

Regional Municipality of Niagara Police Services Board Fourth Year Bursary

Award Type: In-course Bursary - Application Required

Value: \$450. Awarded annually to a student who is a resident of the Niagara region, entering the fourth year of the Collaborative Study in Policing and Criminal Justice program at Brock University. Selection will be determined by the Bursary Officer, based on the recommendations of the Policing and Criminal Justice Admissions Committee. Applications will be screened by the Bursary Officer for financial need and Ontario residency before being forwarded to the committee.

Donor: Regional Municipality of Niagara Police Services Board

Established: 2005

Endowed: 2005

Department: Political Science

Dr. James A. Gibson Book Prize in Political Science

Award Type: In-Course Prize

Value: \$140*. Awarded to an honours student in or entering the senior year who has an outstanding scholarly record, intends to pursue graduate study and is active in the life of the University.

Donor: Friends and colleagues of the President Emeritus on the occasion of his 80th birthday

Established: 1992

Dr. Victor Miroslav Fic Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: \$700*. Awarded annually, to a Brock University Political Science student who has successfully completed POLI 1F90, Introduction to Political Science (or its successor course). The successful recipient must demonstrate satisfactory academic standing and financial need.

Donor: Family and Friends of Dr. Victor Fic

Established: 2005

Father Sean O'Sullivan Scholarship

Award Type: In-Course Scholarship

Value: \$2000*. Awarded to a student with the highest average in Political Science courses entering third- or fourth-year of a single or combined major in Political Science.

Donor: Friends of Father Sean O'Sullivan

Established: 1994

Endowed: 1994

John R. Keen Book Prize in Canadian Political Science

Award Type: In-Course Prize - Application Required

Value: \$340*. Awarded on the

recommendation of the Department of Political Science to the student who is specializing in Canadian Politics that combines maintenance of an honours average with an active commitment to social causes and progressive politics. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Mr. John Keen

Established: 1998

Endowed: 1998

Jory Sherman Political Science Book Bursary

Award Type: In-Course Bursary - Application Required

Value: TBA. To be awarded annually to a third or fourth level political science major. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Mr. Jory Sherman

Established: 2005

Endowed: 2006

Mel Swart Scholarship

Award Type: In-Course Scholarship - Application Required

Application Required

Value: \$1150*. Awarded to a senior student with a single major in Political Science on the basis of academic merit and financial need. The scholarship honours Mel Swart's 40 years of service at the municipal, regional and provincial levels of government, including 13 years as MPP for the Welland-Thorold riding.

Donor: Friends of Mel Swart

Established: 1988

Endowed: 1988

Political Science 25th Anniversary Book Prize

Award Type: In-Course Prize

Value: \$40*. Awarded to an outstanding student in Political Science.

Donor: Department of Political Science

Established: 1995

Political Science Book Prizes

Award Type: In-Course Prize

Value: \$100. Four book prizes: awarded to outstanding student(s) from first-, second-, third- and fourth- year Political Science programs.

Established: 1966

Political Science Department Fall Convocation Book Prize

Award Type: In-Course Prize

Value: \$100*. Awarded to a student with high academic merit and a record of outstanding achievement in the department.

Donor: Department of Political Science

Established: 1966

Purple Chair Award

Award Type: In-Course Award

Value: \$200. Awarded to a student in the second-, third- or fourth-year of a Political Science program, with an outstanding academic record and who has made a significant contribution to the department.

Donor: Jory C. Sherman

Established: 1993

Rita Welch Bursary

Award Type: In-Course Bursary - Application Required

Value \$600*. Awarded to a student entering year two of the Political Science program who has demonstrated financial need. Students may apply by completing a Bursary Application form to confirm financial need. The applicant must also submit a one-page statement on "The critical role the politician plays in a democracy" and how "Political service is an honourable profession." This bursary is named in honour of Rita Welch, the late wife of the Chancellor of Brock University.

Donor: Friends of Dr. Robert Welch on the occasion of his appointment as an Officer of the Order of Canada (April 13, 1994).

Established: 1994

Endowed: 1995

William H. N. Hull Scholarship in Politics

Award Type: In-Course Scholarship - Application Required

Value: \$250*. Awarded to a student in their second, third or fourth year of studies for outstanding academic achievement and contribution to the life of the Department of Political Science and the University. This award may not be held concurrently with the Father Sean O'Sullivan Scholarship.

Donor: Department of Politics' colleagues of Dr. Hull

Established: 1995

Endowed: 1996

William Matheson Bursary

Award Type: In-Course Bursary - Application Required

Value: \$1300*. Awarded on the recommendation of the Chair, Department of Political Science, to a full-time student in Political Science (single or combined major) who has a major average of 75 percent or better in his/her most recent year of study and who has demonstrable financial need. Applicants must also meet Ontario residency requirements.

Donor: Friends and colleagues of Bill Matheson

Established: 1998

Endowed: 1998

Department: Psychology

Cara Cherfurka Memorial Book Prizes

Award Type: In-Course Prize

Value: \$100*. Awarded to the student with the highest graduating average in pass Psychology at Spring Convocation.

Donor: Friends of Cara Cherfurka

Established: 1990

Endowed: 1990

John Lavery Scholarship

Award Type: In-Course Scholarship

Value: \$1025*. Awarded annually to a fourth-year student who has demonstrated a clear interest for research in the social or cultural areas of psychology. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: John Lavery

Established: 1997

Endowed: 1997

Nancy Johnston Bursary in Developmental Psychology

Award Type: In-Course Bursary - Application Required

Value: \$800*. Awarded annually to a third year student with good academic standing in Developmental Psychology courses (PSYC 2F12, 3P11, 3P18, 3P23, 3P27, 3P56, 3P74, 3P93, 3P94, 4F31, 4V89 and CHYS 2F10, 2P35, 2P38, 2P98, 2P99, 3P20). Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Professor Nancy Johnston

Norah Carlsen Book Prize

Award Type: In-Course Prize

Value: \$75*. To be awarded annually to the most exceptional student in the previous years PSYC 1F90 course.

Donor: Friends and Colleagues of Professor Carlsen

Established: 2000

Psychology 3F40 Prize

Award Type: In-Course Prize

Value: \$50*. Awarded to the PSYC 3F40 student with the most outstanding research project.

Donor: Department of Psychology

Vincent Fitzgibbon - Brain Injury Community Re-entry (Niagara) Inc. Bursary

Award Type: In-Course Bursary - Application Required

Value: \$900*. Awarded annually to a student majoring in Psychology or Neuroscience at Brock University. Candidates must demonstrate financial need. Preference will go to a student enrolled in an honours program in the third or fourth year, or to a graduate student, who is interested in pursuing the field of brain injury rehabilitation and demonstrates community involvement or work related experience in the social/health services field.

Donor: Brain Injury Community Re-entry (Niagara) Inc.

Established: 2002

Endowed: 2003

Sociology

Jean Luck Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: \$475*. Awarded to a mature student in her/his graduating year with a single major or combined major in Sociology, on the basis of financial need, academic merit and significant personal contribution and support to the Sociology department. Applicants must meet Ontario residency requirements.

Donor: Dr Christopher Luck

Established: 1994

Endowed: 1995

Judith Blackwell Award

Award Type: In-Course Award - Application Required

Value: \$1,250*. Awarded to two Brock University students in any year of study, registered in either Women's Studies or Sociology. Preference will be given to a single parent.

Donor: Family and Friends of Professor Judith Blackwell

Established: 2005

Melvin Perlman Bursary

Award Type: In-Course Bursary - Application Required

Value: \$450*. Awarded to an upper-year student with a declared major in Sociology with a minimum average of 70 per cent. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: The Family and Friends of Dr. Melvin L. Perlman

Established: 2001

Endowed: 2001

Morris Berkowitz Memorial Bursary

Award Type: In-Course Bursary - Application Required

Value: \$250*. Established in memory of the late Morris Berkowitz, professor of Sociology. Awarded by the Department of Sociology to a full-time student or students who have a demonstrated need and a major average of 75 per cent or better in his or her most recent year of study.

Donor: Friends of the late Professor Berkowitz

Established: 1981

Endowed: 1981

Tourism and Environment

Casey Rovinelli Tourism and Environment Bursary

Award Type: In-Course Bursary - Application Required

Awarded annually to a student in any year of

study pursuing the Tourism and Environment program at Brock University. The student must demonstrate financial need and meet Ontario residency requirements. If no candidate may be found based on the above criteria, then the award may be given to a student in any year of study in the Economics program at Brock. The student must demonstrate financial need and meet Ontario residency requirements.

Donor: Casey Rovinelli

Established: 2005

Frank Banfield Memorial Book Prize

Award Type: In-Course Prize

Value: \$75. Awarded to two graduating students from the Department of Tourism and Environment, in recognition of academic standing and contribution to the Department.

Donor: Centre for Environment

Howard Martin Memorial Award

Award Type: In-Course Award - Application Required

Value: \$500*. Awarded to a full-time Brock University student in Year 2, 3 or 4 of study. Candidates must demonstrate an interest and involvement in the natural environment. Candidates must also have satisfactory academic standing and demonstrate financial need and Ontario residency requirements. Applicants must submit a statement (approx. 1 page in length) indicating their specific involvement in the area of the natural environment (including any specific activities, affiliations, experiences, etc., which detail their passion and dedication to the environment).

Donor: The Niagara Falls Nature Club

Established: 1991

Larry Sweeney Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500*. Awarded annually by application to a full-time Environmental joint major in years 2, 3 or 4 maintaining a minimum academic average of 70 per cent or better. The Bursary Officer will forward the completed bursary application form to the Chair of the Tourism and Environment Department. Applicants must write to the Director indicating their desire to apply for the bursary. Applicants must also meet Ontario residency requirements.

Donor: First Ontario Credit Union Limited

Established: 1991

Endowed: 1991

MR. SUB Award

Award Type: In-Course Award - Application Required

Value: \$500. Awarded annually to a student in the Department of Tourism and the Environment based on academic merit and community involvement. Students are encouraged to describe their community

involvement in the comments section of the application.

Donor: MR. SUB
Established: 2001

Norah Morgan Memorial Scholarship

Award Type: In-Course Award - Application Required

Value: \$2,500*. Awarded annually, alternating each year as follows:

- In even numbered years, to a student entering the Pre-service Education program in the Faculty of Education at Brock University with a preference to a student whose focus is Drama Education. The successful student must demonstrate academic merit. Selection will be determined based on the recommendation of the Faculty of Education Awards Committee. The student must demonstrate financial need and Ontario Residency.

- In odd numbered years, to a student entering the Tourism and Environment program. The student must demonstrate financial need and Ontario Residency.

Donor: The Family, Friends and Colleagues of Norah Morgan
Established: 2004

Robert C. Hoover Bursary

Award Type: In-Course Bursary - Application Required

Value: \$500*. Awarded to one or more eligible applicants. Awarded by application to full-time combined majors in the Centre for the Environment at the second, third or fourth-year level, who can demonstrate financial need, and who show academic promise. Awarded on the advice of the Chair of the Tourism and Environment Department. Applicants must write a letter addressed to the Director, indicating their desire to apply for the bursary.

Donor: Friends and Colleagues of Professor Emeritus Dr. Robert C. Hoover
Established: 1985

TD Canada Trust Bursary

Award Type: In-Course Bursary - Application Required

Value: \$800. Awarded annually to a full-time undergraduate student enrolled in Environmental Studies. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: TD Canada Trust
Established: 1997

Tourism Toronto Bursary

Award Type: In-Course - Application Required

Value: \$3000*. To be awarded to a student with demonstrated financial need in any year of study in the Tourism and Environment program. This award seeks to encourage quality of future employees to the tourism

industry and was created to assist students interested in pursuing a career inbound tourism in the Greater Toronto Region.

Donor: Tourism Toronto, the convention and visitor's bureau, marketing the destination around the world.

Established: 2008

Women's Studies

Dr. Susan Clark Scholarship in Women's Studies

Award Type: In-Course Scholarship - Application Required

Value: \$1,000*. Awarded annually to a student in the Women's Studies Program. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Ernst & Young, Chartered Accountants

Established: 1998

Endowed: 1998

Hazel M. Wood Prize

Award Type: In-Course Prize - Application Required

Value: \$250*. Awarded to a student, in any year of the Women's Studies program, who has displayed strength in academics and participation in the University community and who has financial need. Established in 1993 on the occasion of Mrs. Wood's 80th birthday and in recognition of her friendship and support.

Donor: H. Christina MacNaughton

Endowed: 1993

Josephine Meeker Research Fund in Women's Studies

Award Type: In-Course Award - Application Required

Value: \$200*. Awarded annually by application to students in fourth year of the Centre for Women's Studies to offset the costs of the honours project. Applicants must demonstrate financial need and meet Ontario residency requirements. Interested students should apply by the last Friday in October through the Director of Women's Studies for consideration by the Women's Studies Awards Committee.

Donor: Professor J. P. Meeker

Established: 1996

Judith Blackwell Award

Award Type: In-Course Award - Application Required

Value: \$1,250*. Awarded to two Brock University students in any year of study, registered in either Women's Studies or Sociology. Preference will be given to a single parent.

Donor: Family and Friends of Professor Judith Blackwell

Established: 2005

Mallie Frances Jones Bursary

Award Type: In-Course Bursary - Application Required

Value: \$400*. To be awarded to a student in Women's Studies (single or joint major) who exhibits academic promise (75 per cent or higher average) based on the recommendation of the Women's Studies Awards Committee. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Dr. Mary Frances Richardson

Established: 1996

Endowed: 1996

Melvin Perlman Scholarship

Award Type: In-Course Scholarship

Value: \$500*. Awarded to the best all-round student in the Women's Studies Program. Student must have a minimum average of 75 per cent. The scholarship is in memory of the substantial contribution Professor Perlman made to the University during his years of teaching at Brock.

Donor: The Family and Friends of Dr. Melvin L. Perlman

Established: 1988

Endowed: 1991

Nellie Award in Women's Studies

Award Type: In-Course Award

Value: \$80*. Awarded to a second year Women's Studies major with the highest average in WISE courses.

Donor: Proceeds from 1993 Niagara Talks Naomi Wolf Lecture

Established: 1994

Endowed: 1994

Rosalind (Hyman) Blauer Award

Award Type: In-Course Award

Value: \$600*. Awarded to members of the Brock community (students, staff or faculty) engaged in activities, which illuminate research and bring attention to, or improve the position of women in contemporary society. Applications or nominations should be directed to the Director of Women's Studies. The award is in honour of the memory of Professor Rosalind (Hyman) Blauer, founding member of the Department of Economics.

Donor: Family and Friends of Rosalind Blauer.

Experiential Learning Opportunities at Brock University

I. Overview of Experiential Learning at Brock

Brock University is committed to our promise to students: Your Career Begins Here. We offer a variety of Experiential Learning Opportunities for student employment and career preparation, on and off campus. Experiential learning at Brock incorporates both alternatives that are integral to students' academic programs, and alternatives that are optional, non-credit services for students.

Academic experiential learning opportunities are offered by each of the Faculties and include:

- Co-op degree programs
- Internship degree programs
- Teaching placements
- Course-based internships and field work projects

Non-credit experiential opportunities for current students are co-ordinated in Student Services and include:

- Experience *Plus*
- Skills *Plus*
- Volunteers *Plus*
- Med *Plus*

Experiential learning at Brock is designed to develop students' skills as productive, competent, responsible and reputable graduates that are well prepared for the workplace.

II. Co-op and Internship Programs

1. Co-operative Programs Office

Director
Cindy Dunne

Academic South 362, extension 4325
Hours: Monday-Friday, 8:30-4:30
E-mail: coop@brocku.ca
www.brocku.ca/co-op/

The Co-operative Programs Office at Brock provides information and assistance to applicants and registered students for all campus co-op and internship programs, and will:

- advise students regarding application to co-op programs, academic program requirements, job placements, and job searches;
- recruit employers for co-op and internship placements;
- maintain computerized on-line job banks for co-op and internship postings;
- facilitate the co-op placement process from employer job posting through co-op employer offer to hire;
- prepare students for successful placement experiences with pre-employment workshops;
- introduce students and employer through co-op job postings and on-campus interview assistance;
- monitor and support employer/student placements with regards to placement quality and student contribution through work site visitation and performance evaluation;
- support student recruitment to co-op and internships programs and evaluate student applications for admission decisions;
- provide placement information to the Registrar's Office for inclusion on students' academic transcripts.

Students who are interested in applying to a co-op or internship program are encouraged to contact the Co-operative Programs Office for information.

2. What is a Co-op or Internship?

Co-operative education combines traditional undergraduate academic programming and relevant work experience in alternating terms. The work term experiences are designed to prepare students for their transition from

university to the professional community. The 4 and 5 year programs enable students to acquire experience in their areas of career interest. The practical experiences and academic studies complement one another. The Co-op Programs Office manages the administration and facilitation of the co-op experience at Brock. Co-op coordinators for each program support students throughout their co-op experience.

Brock University co-op programs have clear advantages, particularly the limited class sizes that ensure appropriate time is allocated to each individual student. Students can explore career possibilities, where their interests lie and the type of work environment that best suits them, helping them make informed decisions about their career options. Co-op graduates have the highest rates of employment after graduation. Many employers use co-op programs as a way to identify and recruit their future permanent workforce.

3. List of Current Programs

Please consult calendar copy programs for specific requirements.

Co-op programs:

Accounting
(BAcc Honours, 4.5 yrs)

Applied Environmental Science and Technology
(BSc Honours, 4.5 yrs)

Applied Linguistics/Teaching English as a Subsequent Language
(BA Honours, 4 yrs)

Biochemistry
(BSc Honours, 5 yrs)

Biotechnology
(BSc Honours, 5 yrs)

Business Administration
(BBA Honours, 5 yrs)

Business Economics
(BBE, 4.5 yrs)

Chemistry
(BSc Honours, 4.5 - 5 yrs)

EXPERIENTIAL LEARNING OPPORTUNITIES

Computer Science
(BSc Honours, 4.5 yrs)

Computing and Business
(BCB Honours, 4.5 yrs)

Computing and Solid-State Device
Technology
(BSc Honours, 4.5 yrs)

Dramatic Arts
(BA Honours, 4 yrs)

Economics
(BA Honours, 4.5 yrs)

Geography
(BA Honours, BSc Honours, 4 yrs)

Mathematics and Computer Science
(BSc Honours, 4.5 yrs)

Neuroscience
(BSc Honours, 5 yrs)

Oenology and Viticulture
(BSc Honours, 4 yrs)

Physics
(BSc Honours, 4.5 yrs)

Political Science
(BA Honours, 4.5 yrs)

Psychology
(BA Honours, with Major, 5 yrs)

III. Practica and Course-based Experiential Learning I. Courses With Work Placements

In addition to co-op and internship programs, many other academic programs at Brock include specific courses that require a significant work placement. Normally, these course-based experiences are arranged with public service agencies, schools or employers on a voluntary work basis rather than as paid employment. Most of these courses are a core program requirement for a particular degree program in the discipline.

2. Records and Fees Policy

The course number, course title and final grade are listed on the student's academic transcript. At the discretion of the individual faculty

teaching the course, course-based experiential learning can also be linked to students' Experience *Plus* Records in the following ways:

- students may find exclusive course work placement opportunities for their course on the Volunteers *Plus* posting service at Career Services;
- through the on-line posting, students can begin their placement search in the summer, to have an approved placement arranged when the course begins in the fall;
- in collaboration with their professor, students can arrange with their placement supervisor for the placement details (location, job title, duties/employability skills) to be recorded on their Experience *Plus* Records. The standard course tuition fee normally covers the costs of course-based experiential learning.

IV. Part-time Experiential Learning through Career Services

Director
Amy Elder

Administrative Assistant
Peggy Karges

905-688-5550, extension 3242
Resource Centre - Main Floor, Learning Commons
Administrative Offices, ST 119
Hours: Monday - Friday - 8:30 - 4:30
careers@www.brocku.ca
www.brocku.ca/career

Career Services is dedicated to helping students explore career options, define career goals and plan their academic, work and volunteer opportunities to meet those goals. To see a complete description of the services available, please refer to the Student Services and Academic Support section of this calendar.

The following describes the experiential learning experiences available through the Career Services department, Experience *Plus* and Med *Plus*:

EXPERIENCE *PLUS*

Experience *Plus* Co-ordinator
Pauline Dawson

905-688-5550, extension 4414
www.brocku.ca/experienceplus

Experience *Plus* is a free, non-credit career development program open to all Brock University students. Experience *Plus* activities are pursued on a part-time basis, in parallel with students' academic studies.

As an Experience *Plus* participant you will benefit from educational, social, volunteer and paid employment opportunities designed to develop your career planning and employability skills.

Experience *Plus* was created to:

- enhance your future employability with practical experience;
- encourage and help you try out a variety of career streams;
- assist you with your job search after graduation by documenting your experience on an individual Experience *Plus* Record;
- support your academics through increased campus involvement and commitment.

The program is divided into five main components, which are offered throughout the academic term.

1. Career Development:

Career Development includes both individual assessments and, workshops on a variety of topics, such as Learning about Personal Work Styles, Foundations in Leadership and Resume Writing, Interview Techniques, and Job Search Strategies.

2. Employment Opportunities

As an Experience *Plus* student, you will have access to more than 2,500 on-campus job postings through our on-line database.

3. Volunteer Opportunities

Gain valuable experience, knowledge and connections by volunteering on campus or

called

EXPERIENTIAL LEARNING OPPORTUNITIES

with local business and community agencies in Niagara. Experience *Plus* has centralized students' access to the many service opportunities offered by various on campus and community based organizations.

4. Experience *Plus* Record

We'll work with you to track and record both your volunteer and on-campus paid work experiences and corresponding demonstrated employability skills.

5. Career Portfolio

We will help you develop your individualized personal and online Career Portfolio and when you upon graduate, you will be provided with a certified copied of their Experience *Plus* Record to be used in their Career Portfolio and in the your job search.

To register with Experience *Plus*, sign up as a member at www.brocku.ca/experienceplus. It is important that once you are registered with Experience *Plus* to regularly check your record ensuring that all volunteer and on campus employment, workshops and certificates have been recorded. If you need to update your record or would like to request a formal copy of your Experience *Plus* Record go to Career Services on the 4th floor of the tower, and we will be able to provide you with your request within one week. Currently, you can attend a majority of workshops at no cost and there is a nominal fee for copies of your Experience *Plus* Record.

MED PLUS

Med Plus Co-ordinator

Marie Portillo *Marie Portillo*

905-688-5550, extension 3106

www.brocku.ca/experienceplus/medplus

If you plan to pursue medical school or a health related career, consider Med *Plus*, a unique, extra-curricular experiential learning program. In partnership with area hospitals, practitioners and health organizations, Med *Plus* is designed to provide you with career development, practical experience and the most up-to-date information about the health care sector. Activities include:

- site visits to hospitals, social service agencies and community health centres;
- volunteer placements to gain valuable experience;
- presentations by physicians and other health professionals;
- workshops in first aid, CPR, allied health care;
- workshops in communication, team work and self awareness;
- current medical student mentors;
- personalized program counselling and information on admissions to medical school;
- university documentation of your Med *Plus* experiences.

For any student interested in a health profession, Med *Plus* is a great chance to learn more about the medical system and to build a network with health care professionals here in Niagara!

Note: this is a fee-based, part-time, non-credit program that runs concurrently with each year of the Brock academic programs.

How to apply:

Med *Plus* is a limited enrolment program and requires a separate application. Admission is competitive; minimum requirements for consideration include:

- a minimum 80 percent average, as indicated by an official transcript of marks;
- a strong interest in pursuing medicine or another health-related career, as indicated by a one-page Statement of Interest and a confidential letter of reference, to be submitted with the application;
- application deadline is April 1st each year.

Continuation in Med *Plus*

Once admitted, students must participate in the full mandatory curriculum. The Med *Plus* program runs from September through April, over four years. Med *Plus* students who withdraw from the program forego their place, which is assigned to a student on the waiting list.

A significant strength of the Med *Plus* program is developing an understanding of teamwork in academic and health delivery settings. Therefore, the University may withdraw a

student's place under certain conditions, including inadequate attendance, unacceptable words or actions in a placement or visit, unsatisfactory placement evaluation, or unacceptably competitive behaviour with fellow Med *Plus* students. Students must maintain an average of 75 percent to continue in the program each year.

Records and Fees Policy

Students receive an official Med *Plus* record, separate from their academic transcript and from their Experience *Plus* record. The Med *Plus* record documents the personal and public health learning that students have acquired by listing the workshops, speakers, site visits, and volunteer placements in which each student has participated. Attendance is taken at each Med *Plus* event to ensure the accuracy of this record. Since Med *Plus* is a full cost-recovery program, students pay an annual membership fee to Career Services. The current fee is \$650 per year; students may expect annual fee increases in the order of 5-10 percent. If students withdraw from the program after accepting admission, partial fee refunds are pro-rated after June 15th. The fee is non-refundable after October 31st.

Student Services and Academic Support

I. Office of the Vice-Provost and Associate Vice-President, Student Services

Vice-Provost and Associate Vice-President, Student Services
Kim Meade

Assistant to the Associate Vice-President, Student Services
Kelly Veld

905-688-5550, extension 3418
Schmon Tower 401

Monday to Friday: 8:30 am - 4:30 pm
Closed: 12:00 pm - 1:00 pm

The Associate Vice-President (Student Services) has two central mandates. The first mandate is the development, enhancement and integration of student services, policies and programs to support a high quality student life at Brock, and improve students' success in their academic experiences.

The second mandate is the development and implementation of enrollment management policy and programs to build an entering class with excellent and diverse backgrounds through recruitment initiatives, and retain students through the completion of their degrees, by implementing advising and support services to increase student success.

Students are encouraged to engage in and support student affairs on campus through participation in volunteer activities, paid work placements and committee involvement. Opportunities for student participation in Student Services include residence life staff, residence advisory council, residence security, residence dons, campus tour guides, health peer educators, financial peer assistants, career services assistants, the student peer advisory committee on non-academic discipline and student representation on other Student Services committees.

The Associate Vice-President provides leadership and direction to the following Student Services administrative units:

Student Development Centre
· Aboriginal Student Services
· Student Leadership Programs

- Learning Skills Services
- Personal Counselling Services
- Services for Students with disABILITIES
- Student Non-Academic Discipline
- Student Event Risk Management

Office of the Registrar

- Academic Advising
- Academic Appeals
- Admissions
- Examinations and Scheduling
- Recruitment and Liaison Services
- Student Information
- Student Records and Registration
- Academic Integrity

Campus Ministries - Brock Multifaith Centre
Off-Campus Housing
Career Services
Health Services
Student Awards and Financial Aid
International Services
Accessibility Co-ordinator
Residence
ESL Services
International Recruitment
Brock International

II. Student Development Centre

Administrative Assistant
Lean Ann Cayer

905-688-5550, extension 3240
Schmon Tower 400
www.brocku.ca/sdcl

1. Aboriginal Student Services

Advisor
Sean Hoogterp

905-688-5550, extension 4273
Mackenzie Chown C302
Monday-Friday: 8:30 am - 4:30 pm
www.brocku.ca/sdclaboriginal

Our goal is to help Native, Inuit, and Metis students make a smooth transition to life at Brock. We offer services in a culturally sensitive manner and encourage students to maintain or even increase their cultural identity while in the university setting.

Services include:

- Liaison and referral services for students to both the Brock campus and the local communities.
- Providing programming and campus wide Aboriginal events.

- Promoting awareness of Aboriginal culture on campus.
- Advocating on behalf of Aboriginal students within the University community.
- Providing information on Native, Inuit, and Metis specific scholarships.
- Assisting secondary and college students with the application process.
- Offering free Aboriginal student computing and printing lab.
- Maintaining an Aboriginal resource library including newspapers, texts, and CD's.
- Providing training to Brock faculty and staff.

2. Learning Skills Services

Manager
Jill Brindle

905-688-5550, ext. 3114
Schmon Tower 400
www.brocku.ca/sdcllearning/

Learning Skills Services helps Brock students improve their academic proficiency. Assistance is available to help with study concerns, writing issues, and math or science problem-solving operations. Learning Skills Services assists students in managing a broad range of challenges including the transitioning from high school to university, handling exam anxiety, preparing for upper-year exams, and writing an honours thesis. Learning Skills Services enables students to reach their full learning potentials.

A variety of Learning Skills workshops are available throughout the year to address study skills needs in areas such as time management, reading, taking notes, writing university essays, succeeding in the sciences, and preparing for exams. Students can collaborate with a group of their new Brock friends to "order a workshop" for any group of four or more students, at a time convenient for them. The Learning Skills Drop-in service and most of the Learning Skills workshops are available in the Learning Commons. Students are invited to go to the Learning Skills website to register for workshops, or can join workshops in progress if seats are available. For more information on Learning Skills Services, visit Learning Skills Services online at <http://www.brocku.ca/sdcllearning> or contact Jill Brindle, 905-688-5550, ext. 3114 Schmon Tower 400.

3. Personal Counselling Services

Manager

Les McCurdy-Myers, extension 4123
Email: lmccurdy@brocku.ca
Schmon Tower ST400

Register On-line at:
www.brocku.ca/sdcl/leadership

Brock University has a long tradition of fostering leadership abilities in its' students by providing peer leaders training and experiences which have enabled them to assume leadership roles in their careers and personal lives. Working from the perspective that effective leaders know how to motivate and work dynamically with others, the Leadership Development Service was conceived of to provide opportunities for all Brock students to gain the competitive edge that our student leaders have long carried with them from Brock into their futures. The Foundations in Leadership Practicum Series offers skill based training and leadership programming designed to bring out and polish the leader in you. While here at Brock you can get the training that your future employers would pay thousands of dollars to provide you.

Leadership Development Services

Manager

Les McCurdy-Myers, extension 4123
Email: lmccurdy@brocku.ca
Schmon Tower ST400

Register On-line at:
www.brocku.ca/sdcl/counselling

Brock University has a long tradition of fostering leadership abilities in its' students by providing peer leaders training and experiences which have enabled them to assume leadership roles in their careers and personal lives. Working from the perspective that effective leaders know how to motivate and work dynamically with others, the Leadership Development Service was conceived of to provide opportunities for all Brock students to gain the competitive edge that our student leaders have long carried with them from Brock into their futures. The Foundations in Leadership Practicum Series offers skill based training and leadership programming designed to bring out and polish the leader in you. While here at Brock you can get the training that your future employers would pay thousands of dollars to provide you.

4. Services for Students with disABILITIES

Manager

Judith Brooder

905-688-5550, extension 4122
Schmon Tower 400
www.brocku.ca/disABILITIES

Brock encourages and supports the full participation of students with disabilities in all aspects of campus life. Services for Students with disABILITIES (SSWD) provides accommodations and services for students who require academic support due to the impact of a physical, medical, sensory, mental health or learning disability.

All services and accommodations are determined on an individual basis, depending on documented needs. Services include:

- support services: use of a note taker, compensatory strategy assistance, exam accommodation, use of adaptive equipment and liaison with faculty. Screening and limited diagnostic assessment for learning disabilities are available on campus;
- adaptive technology: specialized computer software and other technical aids are available for use in the Student Development Centre. Please see your case manager about your technology needs and to obtain access to equipment;
- library services: a designated reference librarian to co-ordinate library services for students with disabilities. Library services include obtaining text on tape, assistance with computer searches and locating materials in the library;
- accessible facilities: most facilities at Brock are wheelchair accessible. For a special accessibility tour of campus, please contact the Recruitment and Liaison Office. There are 40 accessible housing units on campus;
- attendant care: limited attendant care service is available through the Ontario March of Dimes. If you require attendant care, contact the Student Development Centre.

Students are advised to contact the Student Development Centre early in the application process to exchange information about their needs and the services available. After being admitted to Brock, you must contact SSWD to provide appropriate documentation of your needs, preferably before the beginning of term. Your case manager will review your needs and assist in setting up the accommodations and support services you require.

5. Student Non-Academic Discipline

Manager, Student Conduct
Vince Wilson

905-688-5550, ext. 4041
Schmon Tower 400
www.brocku.ca/sdcl/discipline

The Manager, Student Conduct provides advice and support to students, faculty and staff regarding to issues of non-academic student discipline and students-at-risk. The Manager, Student Conduct chairs the Student-at-Risk Case Team, and serves as the advisor for the University Discipline Panel, hires, trains and supervises University Discipline Panel Members and communicates disciplinary decisions to appropriate constituents. For more information on Non-Academic Student Discipline and/or Students-at-Risk see the University Calendar (Code of Student Conduct and Appeals in Non-Academic Matters) or visit www.brocku.ca/sdcl/discipline

III. Campus Ministries

Co-ordinator:

André Basson
(Christian Reformed Church)

Chaplains

André Basson
(Christian Reformed Church)
David Galston
(Anglican, Presbyterian and United Churches)
Raoul Masseur
(Roman Catholic Church)

Associate Chaplains:

Eliyahu Courante
(Jewish Faith)
Murtaza Najmudin
(Muslin Faith)

905-688-5550, extension 3134, 3977, or 4764
Decew Residence 216 and 217
www.brocku.ca/ministries

About Brock Campus Ministries

Campus Ministries integrate intellectual and spiritual development. Campus Ministries does so by supporting or providing ecumenical worship, R.C. Sunday Mass, social justice education, solidarity experiences abroad, spiritual direction, academic resources, pastoral counseling, workshops, seminars, religious based student clubs, study groups and public lectures.

The Chaplains are appointed by several religious denominations and are available to discuss any topic with you, particularly concerning spiritual, academic and ethical aspects of your life.

Anyone who wants to be part of a faith community, to share concerns and experiences or to speak in confidence about any matter is welcome to contact any of the campus chaplains in our Decew Residence Offices.

Rita Welch Meditation Centre

The Rita Welch Meditation Centre is located in A302, next to the Senate Chambers. It was established in memory of Rita Welch, wife of the late Chancellor Robert Welch. The facility is available both for individual meditation and for campus-based groups who wish to use it for spiritual education, gatherings, or discussions. The Meditation Centre can be booked through Campus Ministries. It is open daily from 8:00 a.m. to 9:00 p.m. Other times can be arranged. During the academic year a monthly schedule of events is posted in the glass case outside the Centre.

Brock Multi-Faith Centre

The Brock Multi-Faith Centre is located on the lower level of Schmon Tower, next to the Tower Cafeteria in the former Trillium Dining Room. It is composed of two rooms, the Islamic Centre and the Multi-Faith Room.

- a) The Islamic Centre is a room set aside by the university to accommodate prayer for Muslim Students. It is open for anyone wishing to learn more about the Muslim faith.
- b) The Multi-Faith Room is used for small group meetings and interfaith dialogue. Contact the Chaplains for information or to schedule an event.

IV. Career Services

Director
Amy Elder

Administrative Assistant
Peggy Karges

905-688-5550, extension 3242
Resource Centre - Main Floor, Learning Commons
Administrative Offices, ST119
www.brocku.ca/career

Career Services is dedicated to helping students explore career options, define career goals and plan their academic, work and volunteer opportunities to meet those goals. Stop by to see us - no appointment is necessary! The

following services, resources, events, opportunities, and programs are available to you:

Resource Centre - Located on the first floor of the Learning Commons, our resource centre contains resources pertaining to career exploration, job search, employment trends, educational and employment directories, tip sheets and degree-specific occupational information. Meet our trained Career Assistants who will provide you with practical resources and hands-on assistance with your career planning and job search.

Job Opportunities - Getting a job can be a great way to make some extra cash during the school year and to gain experience in a specific career field. There are a number of job opportunities available: on-campus* and off-campus, full-time and part-time, volunteer, and summer positions. Check out the Career Services website to view current postings!

*Note: In some cases, on-campus jobs are partially funded through the Ontario government and students are required to meet eligibility requirements: a) Canadian citizen or permanent resident, b) resident of Ontario according to MTCU guidelines, and c) taking 3 full credits or more in your course load. For more information, contact Career Services.

Workshops - A variety of workshops are provided to help you get the most out of your job search. Topics include Résumés, Cover Letters, Interview Skills, Building a Portfolio and Job Search. Visit the Career Services web site for the schedule of facilitated workshops or to take an on-line workshop.

Events - Our website contains a schedule of events designed to connect you with volunteer and employment opportunities, such as the Career Expo, Shop for Jobs and more. These fairs are usually all day events, allowing students to drop by as they please.

Graduate Recruitment - We host employers on campus from a variety of sectors throughout the year. These companies conduct information sessions and arrange to interview Brock students who are in their graduating year for positions beginning after graduation.

Experience Plus - Designed to give you a competitive edge in the job market after graduation, Experience Plus is a careers-oriented, work and skill-building program. Your involvement in part-time paid or volunteer work along with career development workshops are tracked and compiled into a career portfolio. When you graduate, you'll receive an Experience Plus transcript, outlining

the skills and experiences you've gained through this program. All Brock students are eligible for Experience Plus - contact Career Services or visit our web site to register!

Med Plus - If you plan to pursue medical school or a health related career, consider Med Plus, a unique, extra-curricular experiential learning program. In partnership with area hospitals, practitioners and health organizations, Med Plus is designed to provide you with career development, practical experience and the most up-to-date information about the health care sector. Activities include workshops, volunteer placements, job-shadowing and guest speakers. For any student interested in a health profession, Med Plus is a great chance to learn more about the medical system and to build a network with health care professionals here in Niagara!

V. Student Health Services

Director of Clinical Services
Melodie Shick-Porter

Harrison Hall
905-688-5550, extension 3243
Monday to Friday: 8:30 am - 4:30 pm
Evening Walk-In Clinic: 5:00 pm (space limited)
Closed July - August
www.brocku.ca/healthservices

1. General Information

Don't feel you have to wait for a problem to arrive to visit the Student Health Services.

A team of nurses and physicians provide comprehensive medical/clinical services as well as health education and counselling. We can help you with a medical problem, provide treatment or a referral, give allergy injections or update your immunization. We provide health education and counselling about many issues including contraception, pregnancy, sexually transmitted diseases, nutritional or weight concerns, stress or lifestyle issues. OHIP, UHIP or other health insurance is needed in order to be seen by a physician. All visits and treatments are strictly confidential.

The health fee paid by all students at registration covers many value added services including the Health Education Program etc.

If you have questions or require any additional information about a health issue or specific health concern, feel free to drop in.

2. Required Medical Documentation

It is the University's policy to accept medical certificates from qualified medical practitioners attesting to a student's inability to write a test, examination etc. due to an incapacitating medical condition at the time of the scheduled test, examination etc. The University may, at its discretion, request more detailed documentation in certain cases.

Medical documentation must be written on the Student Health Services Medical Excuse Form or the physician's letterhead and must show the physician's address and telephone number. It must include the student's name, date the student was examined at Student Health Services or by the physician and must bear the physician's signature. The letter must include an indication of the severity of the illness. Please note that some faculties require their own Medical Excuse letter to be completed.

3. Student Health Services Policy

Student Health Services will provide medical documentation only if:

1. Medically warranted.
2. The student presents him/herself to Student Health Services before the exam.
3. The student is seen in our office the day of the exam.

If your exam is at a time of day when the Student Health Services is not open, then you must go to another medical facility to obtain the necessary written medical excuse documentation.

VI. International Services

Director
John Kaethler

Associate Director
Geeta Powell

Administrative Assistant
Jeanette Davis

905-688-5550, extension 4318
Decew Residence R209
www.brocku.ca/international

*"Every student is an international student",
according to John Kaethler, Director of
International Services.*

1. International Student Advising

International students may find it helpful to discuss academic or personal problems with the Director or Associate Director. They can offer assistance with such things as immigration, health, banking, accommodation and the completion of various forms, as well as providing liaison with instructors, the University administration and the community at large. It would be useful to see them when you arrive at Brock. International Services also administers the *Certificate for Success Program* designed to prepare international students for success in their academics and careers. The Office also administers the *University Health Insurance Plan (UHIP)* for all international students.

2. International Study, Employment and Development

International Services assists Canadian students interested in studying or working in other countries. They administer exchange programs to Argentina, Australia, Austria, Brazil, Chile, China, Czech Republic, Finland, France, Ghana, Hong Kong, India, Japan, Korea, Mexico, Netherlands, New Zealand, South Africa, Sweden, the United Kingdom, the United States and Uruguay. Students with disabilities are welcome to apply.

In conjunction with Campus Ministries, International Services organizes short-term summer service learning programs in Peru, Brazil, and Namibia. The Office is also responsible for promoting international development activities on campus.

3. Brock Guide Peer Partner Program

International Services offers this program to new international students at Brock. Each interested international student is matched with an international or Canadian student who is familiar with Brock and Canada. Brock Peer Guide partners can help international students adjust to life at Brock.

4. International Plus Program

International Services, along with Career Services, co-ordinates the *International Plus Program*. International Plus offers students a unique opportunity to gain international

experience without necessarily leaving Canada. Students enrolled in the program participate in placements to increase their awareness of different cultures through interaction with people and projects from around the world.

VII. Office of the Registrar

Registrar
Barb Davis

Deputy Registrar
Kevin J. Kiss

Assistant to the Registrar
Linda Rynberk

905-688-5550, extension 3550
Schmon Tower 301
<http://www.brocku.ca/registrar>

The Office of the Registrar is located on the third floor of Schmon Tower and is comprised of the following units:

- Academic Advising
- Academic Integrity
- Admissions
- Examinations and Classrooms
- Recruitment and Liaison Services
- Scheduling
- Student Information
- Student Records and Registration

Our office hours are Monday - Thursday,
9:00 am to 5:00 pm, and Friday 9:00 am -
4:30 pm.

The Office of the Registrar strives to provide a high level of quality services that support the enrolment, progression, and graduation of Brock students. We serve as the principal custodian of all confidential student enrolment data, including course registration, grades, and address information. Our office has contact with students from the point of application for admission through to graduation and beyond as we maintain each student's permanent academic transcript. Our knowledgeable staff is here to provide students with information on courses, grades, appeals, yearly progression and graduation eligibility, as well as academic counselling.

The University offers a wide range of programs to recognize students with high academic achievement and provides financial assistance to those having difficulty meeting their educational costs.

Academic Integrity Office

Academic Integrity Officer
Troy Brooks

905-688-5550, extension 5404
Schmon Tower 301
www.brocku.ca/academicintegrity/

Academic Integrity is a core value of the academic mission of Brock University. With a focus on student academic success and academic citizenship, the Office of Academic Integrity supports the University community by sharing information, promoting awareness and providing educational opportunities regarding academic integrity on campus.

Recruitment and Liaison Services

Director, Recruitment and Retention
Beth Natale

Administrative Assistant
Linda Steele

905-688-5550, extension 4293
Thistle East 261
Monday to Friday: 8:30 am - 4:30 pm (Closed daily, 12 noon - 1:00 pm)
www.brocku.ca/liaisonexperience.brocku.ca
e-mail: liaison@brocku.ca

Recruitment and Liaison Services staff share information about all aspects of Brock University to prospective students and their families, school counsellors, and the general public.

Recruitment and Liaison Services co-ordinates Brock's undergraduate recruitment activities, including:

- Prospective student publications and on-line information;
Brock's prospective student portal (experience.brocku.ca)
Brock Talk (student blogs; chat sessions; applicant calling)

- Fall Preview Day and Spring Open House;
- Brock's presence at the Ontario Universities' Fair;
- Visits to secondary schools in Canada and the United States;
- Brock's Campus Tour Program for prospective students, visiting dignitaries, and school representatives.

Campus Tours are available weekdays throughout the year at 10:00 am and 2:00 pm, as well as select Saturdays in the fall and spring. Registration is required and can be done by telephone or on-line, using the contact information listed above at experience.brocku.ca. Upon request, Recruitment and Liaison staff will gladly arrange for prospective students to meet with faculty members or administrative department personnel. Tours for students with special needs are also available upon request, outlining specific access routes to buildings, classrooms, and parking.

Many Brock students enthusiastically assist with the activities of Recruitment and Liaison Services. Interested students are encouraged to contact us to find out about specific volunteer and employment opportunities.

VIII. Residence

Director of Residences
James R. Fleming

905-688-5550, extension 3370
E-mail: res@brocku.ca
www.brocku.ca/residence

Residences

The Brock residence system can accommodate approximately 2,400 students on campus in two basic styles of residences: traditional and townhouses. Students living in the traditional style residences are accommodated in "halls" or "houses" with 40-60 students per hall/house. Students living in the traditional style residences must purchase a meal plan which can be used in the residence dining halls and/or other food outlets on campus. Those living in townhouses share a "unit" with two, three or four other students and have the option to purchase a meal plan or do their own cooking.

There are four traditional-style residences: DeCew and Lowenberger Residences have accommodations in single or double rooms and both of these buildings contain a residence dining hall; Vallee and Earp Residences are all single rooms. Students living in Vallee and Earp usually eat in the DeCew Dining Hall. All traditional style residences have common lounges and/or study rooms, as well as laundry facilities.

The townhouse style residences combine independence of townhouse living with the convenience of location and inclusion in

residence activities and events. There are two townhouse style residences: the Village and Quarry View. Each unit at the Village Residence accommodates five students (three in single rooms and two share a double room). Quarry View Residence is all single rooms with three and four bedrooms units. Both complexes have laundry facilities.

All residence rooms are furnished with basic necessities and all include phone, internet and cable television connections. Residence life is monitored and facilitated by the Residence Life Staff. The RLS are upper year students who are assigned responsibility for sections (house, hall, court, block) within each residence complex. They are available to answer questions and provide direction. Also, they endeavour to create a sense of community within the residences. All residences provide opportunities for residents to get involved by participating in activities and events; volunteering for "crew" and/or being elected to positions on the Residence Action Councils.

The majority of beds (approximately 85%) within residence are assigned to Incoming Year One students. Upper Year/returning students, including a small number of graduate students, occupy the remaining beds. Incoming Year One students who indicate an interest in residence on their OUAC form will be sent information about applying for residence along with the University's offer of admission. All Incoming Year One students are guaranteed a place in residence (certain conditions apply, such as meeting application and deposit deadlines). There are a limited rooms available for students with wheelchair accessibility needs. Special housing needs should be discussed with both the Department of Residences and the Services for Students with DisABILITIES Office.

IX. Community Connections

Manager, Student/Community Outreach
Brad Clarke

Community Services Co-ordinator
Kristen Smith

905-688-5550, extension 4000
www.brocku.ca/communityconnections

Community Connections is dedicated to fostering an environment that serves our community both at Brock and within the Niagara Region. The department facilitates community-building initiatives and volunteer opportunities to provide a rich Brock

experience for students, staff, faculty and the broader Niagara community. Our Participation Passport Program (P3) provides students with a broad range of opportunities to be active and involved both on and off-campus. Students are recognized by the University based on the number and variety of activities they participate in. Detailed information about the Community Connections Participation Passport Program is available at www.brocku.ca/passport.

X. Off-Campus Housing Services

Manager, Student/Community Outreach
Brad Clarke

905-688-5550, extension 3721
www.brocku.ca/ocl

Brock's Off-Campus Living office provides information and materials to assist students in their search for accommodations off-campus and make the job of "house hunting" a little easier. The office maintains listings of available rooms, apartments and houses for those looking for accommodations in the local communities. Listings are available on the Web along with a wealth of other information relating to off-campus life. Additionally, if students have questions about the Residential Tenancies Act, leases or municipal by-laws, Off-Campus Living staff can help to find the answers and available resources.

XI. Student Awards and Financial Aid

Director
Rico Natale

905-688-5550, extension 3443
Schmon Tower 402
www.brocku.calsafa

A variety of scholarships and bursaries are available to students of various majors and year levels. A scholarship is awarded for scholastic achievement, while a bursary is awarded on the basis of financial need. Students can research, apply for, and check the status of scholarships and bursaries offered at Brock through the Student Awards and Financial Aid website.

XII. Day-care Centre

Executive Director
Helene Randle

905-688-5550, extensions 3515 and 4433
Day-care Centre
www.brocku.ca/daycare

The Rosalind Blauer Centre for Child Care offers licensed day care for 50 children from three months to five years, 12 months per year. The Centre offers full-time programs and is open to Brock students, staff and faculty of the University and community members. Hours of operation are Monday through Friday 7:30 a.m. to 6:00 p.m.

The Centre is a non-profit charitable, parent co-operative and is operated by a volunteer board of directors. All the staff are qualified Early Childhood Educators. The Day-care is located in a large, well equipped building that was completed in 1995. Subsidy is available for families who qualify.

XIV. Office of Human Rights and Equity Services

Manager
Lynne Bubic
905-688-5550, extension 4019

Human Rights and Equity Officer
Marla Portfilio
905-688-5550, extension 3338

General Inquiries: extension 5657
DeCew Residence Room 221
www.brocku.ca/humanrights

The Office of Human Rights and Equity Services is a resource for all members of the Brock community, including students, staff and faculty, providing information and advice on a wide range of issues relating to harassment and discrimination. The key functions of the office are to:

- provide information and training to the university community to increase awareness about the importance of promoting a respectful work and learning environment,
- assist individuals with complaints of harassment, discrimination, and bullying to understand the range of options available for responding, and help them to pursue a resolution to the situation that works for them.

The Office of Human Rights and Equity Services works to promote a respectful work and learning environment at Brock University through the following initiatives:

- Brock Diversity - peer run diversity events on campus, such as the Purple/White Ribbon Campaign for the Prevention of Violence Against Women, Reel Life Film Festival, and Anti-Racism Week
- Coordinating and promoting diversity events with other departments (International Services, Campus Ministries, OPIRG, Aboriginal Student Services, WISE), such as Celebration of Nations, Faith Fair, and December 6th Memorial
- Providing an information booth at other events on campus, such as Orientation Week and Campus Health Fair
- Providing diversity workshops for students, staff and faculty on campus
- Positive Space Campaign to raise awareness and support for sexual and gender diversity on campus - please visit www.brocku.ca/positivespace for more information
- Diversity Resource Area in DeCew 221 and bulletin boards on campus
- Administration of the Respectful Work and Learning Environment Policy
- Online resources at www.brocku.ca/humanrights

The Office can assist you with a wide range of individual concerns, including:

- Sexual harassment, date/acquaintance rape, sexual assault, stalking and domestic violence,
- Human rights harassment and/or discrimination (based on race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, gender identification, sexual orientation, age, marital status, family status and disability),
- General harassment and/or bullying, and
- Online harassment via chats, email and/or websites.

The University has a variety of policies, procedures and codes of conduct that prohibit students, staff and faculty from harassing, bullying or discriminating against other students, staff or faculty members. Contact with the office is a confidential service. Our staff will work with you to decide on an approach to resolution that works for you, often making use of alternative dispute resolution techniques that allow the parties to rebuild their relationship in a more positive, respectful way.

XV. University Library

University Librarian
Margaret Grove

Assistant to the University Librarian
Fatima Noorbhai

905-688-5550, extension 3226
Schmon Tower
www.brocku.ca/library/

The University Library system comprises the James A. Gibson Library, housed on eight floors of the Schmon Tower, and the Map Library, located in Mackenzie Chown C306.

The Library's collections contain over 1.5 million physical items and a vast array of digital resources. The Matheson Learning Commons, located on the main floor of the Library, offers a range of learning support services in a dynamic space that features computers, study booths, tables, groups study rooms, soft seating, and individual carrels. Additional study spaces and computers are available on the upper floors. Laptops are available for loan from the Circulation Desk. The Library is open for 90 hours each week, including evenings and weekends, with extended hours during exam periods.

Detailed information on the Library's collections, services and hours is available at www.brocku.ca/library.

Information Resources

Access to digital resources is available both on and off campus. The library home page offers direct access to the catalogue and an extensive number of databases, including over 28,880 full text electronic journals, a growing number of e-books, and several image and sound databases.

Assistance in Using the Library

Staff are available to provide assistance during most hours of library operation. Virtual assistance is also available through the LiveHelp icon on the Library's website. The Library has an active and well developed instruction program that is closely integrated with course content.

Other Library Services

Debit card photocopy machines are located throughout the Library. Self-serve printing can be done from all library workstations. Requests for special copying, including large-format printing, are handled by staff in Copying and Printing Services on the fifth floor of the Library.

The Interlibrary Loan service allows students and faculty to borrow items and obtain articles from other libraries if materials are not owned by the Library. Brock students and faculty may also borrow directly from most university libraries in the country using their Brock identification card.

XVI. Map Library

Map Librarian
Colleen Beard

MacKenzie Chown C306
www.brocku.ca/maplibrary/

The Map Library maintains the cartographic reference collection for the University that supports the teaching, research, and learning of faculty and students. Resources include over 75,000 maps, atlases and air photos worldwide. The Map Library holds the most comprehensive air photo collection of Niagara dating from 1921 (viewable from the website) to the present. It carries an extensive collection of digital map data, including large scale topographic, geoscience data, census data, outline maps, as well as a selection of electronic atlases. Public workstations are available to access digital map products and to support GIS (Geographic Information Systems) software. A detailed description of the collection, various subject guides, digital outline maps, and many other web resources, are accessible through the web site at www.brocku.ca/maplibrary

Although the Map Library specializes in cartographic resources, the facilities are ideal for group and private study. It is also open to the public for reference purposes.

A colour laser printer, large colour scanner, and a black and white photocopier are available. Library staff is available for reference and limited GIS technical support.

The Map Library is wheelchair accessible. Students with special needs who require assistance in retrieving library materials or in using equipment should ask Library staff.

XVII. Instructional Resource Centre

Manager
Kim Pelchat

Faculty of Education
www.ed.brocku.ca/irc

The Instructional Resource Centre provides specialized library, media and computer services for the Faculty of Education. The IRC curriculum libraries are located on Floor 2 of Robert S. K. Welch Hall (St. Catharines Campus) and in Room 6 at the Hamilton Campus (1842 King Street East, Hamilton). The curriculum libraries offer a variety of curriculum resources to support elementary and secondary teaching as well as a special collection of Master of Education projects and theses located at the St. Catharines Campus.

IRC Media Services are located on Floor 2 of Robert S. K. Welch Hall (St. Catharines Campus) and in Room 6 at the Hamilton Campus. Media Services has production areas with laminating presses, lettering systems, button maker and other equipment to assist in the production of teaching aids. At the Hamilton Campus, the Library provides classroom media services.

Two computer laboratories are located at the Hamilton Campus in Room 8 and Room 13.

The IRC is wheelchair accessible. Students with special needs are welcome to ask library staff for assistance in retrieving library materials or in using equipment.

Although focusing on the specialized needs of the Faculty of Education, all members of the University community may use the IRC's library and media facilities.

XVIII. Information Technology Services

Administrative Information Systems

Director

Audrey Fehlow

User Services and Academic Support

Manager

Kevin Dover

Research Support and Web Services

Manager

Andy Morgan

Administrative Assistant

Barb White

905-688-5550, extension 3479
MacKenzie Chown Complex F314
www.brocku.ca/its

The University's Computing Centre, which services both the academic and administrative needs of the University, is located in F Block of the Mackenzie Chown Complex. It houses servers which support administrative computing, academic teaching and research. All of these machines are networked via the campus-wide fiber-optic backbone which is also connected to the Internet.

Computing facilities are available to all faculty, staff and students. Students requiring the use of specific software on the servers are supplied with a user code by their instructor, otherwise general Internet access and e-mail accounts are freely available via an automated system in any of the general computer labs on campus.

The University supports scheduled micro-computer labs and general access labs for academic use. The scheduled facilities are located in A203, PLZ309, PLZ310, J201, J202, TA304 and WH205. There is a large Computer Commons that contains micro-computers for general access. All these labs contain application software to support teaching at the university. There are both Windows based PCs and Macintosh computers available. During the Fall and Winter terms, some of the facilities are open from 7:30 a.m. until 1:00 a.m. All computer labs are networked and have Internet access. Each year the technology is reviewed and upgraded as required in order to have the necessary equipment for academic needs. Computer labs have a wheelchair accessible workstation.

Information Technology Services also has a Help Desk that is available to all students, faculty and staff. The Help Desk staff assists the university community with hardware and software recommendations, arranges software licenses for faculty and staff, as well as issues pertaining to their computer, general campus computing and printing. The Help Desk is open Monday to Friday, 8:30 AM to 4:30 PM. We can also be contacted by phone at extension 4357, in person at Mackenzie Chown F314, as well as, submitting all IT related questions, concerns and requests to the "ITS Request" link on the ITS website, <http://www.brocku.ca/its>.

Telecommunications and Network Services

Director

Edward Blasinski

Supervisor, Switchboard/Coordinator

Patti Froese

905-688-5550, extension 3260
Thistle Complex West Room 235
<http://www.brocku.ca/its/cns>

Telecommunications and Network Services, a division of Information Technology Services, provides multiple services for faculty, staff, students, and the community. The Audio-visual section supplies equipment to classrooms for teaching purposes. Equipment available for academic use includes computer projection, overhead and slide projectors, VHS/DVD players, and portable sound systems. Equipment requests must be made at least 24 hours or one business day in advance. Requests can be made by calling extension 3588 or providing 48 hours or two business days notice by emailing audiovisual@brocku.ca.

Student identification cards are produced during normal hours of operation. In the case of a lost or stolen card, students must pay a \$20.00 replacement fee in Finance. The replacement fee for students living on campus where swipe access is required is \$35.00. The finance office is located on the 12th floor or the Schmon Tower.

The technical support team maintains the telephone and network infrastructure for all of Brock University's academic and administrative locations. Additionally, Telecommunications and Network Services provide telephone, network access, and cable television to all students living in residence. During the academic term, staff may also assist students with configuring their personal computer for network access. The networking centre staff is

responsible for network operations and resolving any network issues that may arise.

Hours of operation during term: Monday to Thursday 8:30 am to 9:00 pm. (After 4:30 pm, office open when technician is available) and Friday 8:30 am to 4:30 pm.

Academic Computing Information

I. Computing Access for Students

All students at Brock University are assigned a computer ID during the online registration process (Student Self Service). This ID gives students access to email, computer labs and other computing resources at the University.

It is important to note that your Brock email address will be used by most or all University departments and services as the primary means of communication. Students should be sure to check their Brock email often for important messages.

II. A Guide to Academic Computing Behaviour

The purpose of these guidelines is to promote the ethical, considerate and responsible use of Brock's computing facilities. In a community of users, one should not do anything that would place at risk these facilities, the network or its users.

The following points are of general nature and are not meant to be definitive. Clarification of individual concerns may be done through the use of readily available public documents such as, but not limited to, Brock's Academic Misconduct Policy, the Criminal Code, the Libel and Slander Act of Canada and individual academic department policies. Disciplinary or legal actions could be instituted by Brock if there are infractions of such policies.

1. Computers in labs may be used only with authorization.
2. User codes for networked facilities are available to the Brock community and must be protected and not shared. Users are expected to keep their password secret and secure.
3. Use of any facilities for business or financial gain is specifically prohibited, unless prior written approval is obtained from the Vice-President, Administration.

4. As Brock's network facilities are connected to the Internet, usage of the network is governed by the acceptable use policies of connected nets and the laws of other countries. Users are urged to be sensitive and aware of other cultures and nations in their postings to the Internet.

5. It should **not** be assumed that E-mail and other data is private as it traverses Brock's internal network or the Internet. Users are urged to act accordingly.

6. Due to inevitable system upgrades or malfunctions, Brock's system administrators may need to inspect user directories. If any data are required to remain private at all times, then the user must use encryption or removable storage media.

7. Any deliberate attempt to discover or alter other users' passwords is expressly prohibited, as are any attempts to subvert system security or operation of any of Brock's computers or other networked computers.

8. Brock's facilities may not be used for illegal purposes and it is expressly noted that copying copyrighted software and the execution of illegally copied software on Brock's facilities is prohibited.

9. Harassment in any form is not allowed. Brock has specific policies regarding harassment which will be enforced.

10. Any attempt to hide the identity of the sender/originator of a message will be treated as a serious infraction.

11. Any violation or attempted violations of these guidelines should be reported quickly to the lab supervisor or the appropriate system administrator for further action.

Users will be required to acknowledge the contents of this Guide to Academic Computing Behaviour during the online registration process. Further clarification of any points in this document should be addressed to the Associate VP of Student Services.

Life at Brock

I. Student Organizations

1. Brock University Students' Union

Administrative Assistant
Sandra Hammond

905-688-5550, extension 3568
Student Centre 313
www.busu.net

All registered undergraduate students are members of the Brock University Students' Union (BUSU). Each spring, BUSU holds elections for the position of President, Vice-President of Finance and Administration, Vice-President of Student Services and Vice-President of University Affairs to oversee the day-to-day running of the organization. These four executive reports regularly to the Brock University Students' Administrative council (BUSAC).

BUSAC exists to maintain student involvement in the running of the students' union. This administrative council is comprised of representatives from each faculty, as well as representatives from residence, off-campus students, international students and students with diverse abilities.

BUSU operates a number of businesses and services to ensure students a more comfortable and enjoyable experience during their time at Brock. Businesses include the General Brock, Sub Cetera South convenience stores, Isaac's Bar and Grill, Advertising and Design Services (ADS) and the Union Station food court. All revenue generated from student run businesses is channeled back to students. Services available to students include Brock Off-Campus (BOC), Brock First Aid Responders, Brock Foot Patrol, Office of the Ombudsman for Students, an emergency food bank and emergency student loan program. The Brock Press is a campus newspaper, funded by students, run autonomously from the Students' Union.

Check out <http://www.busu.net> for more information on BUSU businesses, services and other student oriented activities on and off campus. This site offers students opportunities to voice their concerns, get updates on events and issues and more.

2. Office of the Ombudsman for Students
There may be occasions, which cause students to feel that they are victims of unfair treatment. For guidance in both academic and personal matters, students can contact the Ombudsman.

For assistance in getting through red tape, injustice, conflict and harassment, although not lawyers, the Office of the Ombudsman for Students has access to expert legal advice, if necessary. It is important that all students become familiar with their academic rights and responsibilities. Read the regulations found later in this calendar. The Office of the Ombudsman for Students is located in the Alumni Students' Centre.

3. The Students'-Alumni Centre

This is the eleventh year of operation for the Students'-Alumni Centre. This building is a milestone on Brock's history as it is funded and operated solely by students. Some of the services found in the Student's Centre are: the BUSU Offices, Isaac's Bar and Grill, the Advertising and Design Services, the Brock Press, the Student Lounge, the Health Plan Office, Pick up/Drop off Pharmacy Service, OPIRG - Brock, Brock Foot Patrol, Brock First Aid Responders, Office of the Ombudsman for Students and a photocopy service.

4. Ontario Public Interest Research Group (OPIRG Brock)

OPIRG is a student-directed and funded organization that provides an outlet for Brock students to actively work on a variety of environmental, social injustice and health issues. Through research, education and action, students will gain insight into the interrelationships between different social issues, while improving their skills and providing valuable information in the community.

All students are invited to participate in the activities of OPIRG. Students who do not wish to support the work of OPIRG are encouraged to get a refund of their student fees from the OPIRG office, located in Room 306 of the Students' Centre.

II. Athletics

Director
Dr. Lorne J. Adams
Physical Education 213

Administrative Assistants
Marilou Lusi, Sandie Huffman

905-688-5550, extension 4398
Walker Complex 213C
www.brocku.ca/athletics

Brock University's Department of Athletics provides students with the opportunity to take part in athletics both as participants and fans. Inter-university activities are available to all students and cater to those interested in the pursuit of excellence. Each year approximately 500 student-athletes compete on

Badger teams. Daily training and weekly competition provide student-athletes some of the best competitive opportunities in Canada.

It is the mission of the Department to enrich the overall student life experience by providing quality sport programs and leadership in the pursuit of athletic excellence. Inter-university sport is an experience of a lifetime. Not only will student-athletes earn a degree but they will also develop life skills that will last forever.

As a member of Ontario University Athletics, women's teams compete with other universities in basketball, cross country, curling, fencing, ice hockey, rowing, rugby, soccer, swimming, volleyball and wrestling.

Also in the OUA, men's teams compete in baseball, basketball, cross country, curling, fencing, ice hockey, rowing, rugby, soccer, squash, swimming and wrestling. Competition is also available in lacrosse.

Brock Athletics is a member of the Canadian Interuniversity Sport (CIS). The CIS is the governing body for university sport in Canada. Each year 10,000 student-athletes across Canada participate in a competitive schedule of approximately 3000 events starting in September and continuing to March.

Brock University also has one of the best Athletic Therapy Clinics in Canada and provides sports medicine and athletic therapy services to Interuniversity athletes with sport injuries. The Clinic has three full-time athletic therapists and access to the services of sports medicine specialists and a Pedorthist. In addition, approximately thirty student therapists gain valuable career skills in the field and in the clinic while working with the varsity teams.

III. Recreation Services

Director
Karen McAllister-Kenny

Administrative Assistant
Sandra Boone

905-688-5550, extension 3018
Walker Complex, 214
www.brocku.ca/recserve

Facilities

Brock University boasts some of the best facilities in the province for student recreational and athletic use. Facilities available include a 50 m, 8-lane Olympic size pool which includes a whirlpool, dive tower, hydraulic floor and tarzan ropes; the Zone (fitness centre), 3

gymnasia (11,000 sq. ft, 12000 sq. ft, and 22,000 sq. ft), a 200 m indoor run/walk track, squash courts, outdoor tennis courts, dry saunas, an indoor rowing centre, and multiple outdoor fields.

Cost

Brock University students, through fees paid with tuition, have access to use the pool, courts, gyms, fields and track by showing your student ID prior to each use. The Zone, or the weight area in the rowing centre, require the purchase of a membership.

Programs

Intramurals

Competitive and recreational intramural programs are offered in many sports, including slowpitch, flag football, indoor and outdoor soccer, ice and ball hockey, broomball, volleyball, basketball, innertube waterpolo, ultimate Frisbee, badminton, dodgeball, underwater hockey and more. Join over 6500 students who take part in these activities each year.

Instructional Programs

To be introduced to a new activity or to improve existing skills, join a non-credit instructional program. Courses offered include aquatic leadership and learn to swim programs, dance, fitness, fencing, yoga, tai chi, pilates, first aid, personal training, coaching and many more!

Employment

Recreation Services hires over 400 students each year. Check the website for information.

IV. Parking Services

Supervisor
Al Ross

905-688-5550, extension 4309
www.brocku.ca/parking

At a busy university the demand for parking facilities is great, and Brock is no exception. There are plenty of parking options available at the University. For a detailed list of options, please visit our website.

V. The Bookstore and Campus Store

Director
Trudy Lockyer

Finance/Accounting Officer
Janet Jamison

905-688-5550, extension 3237/5583
Plaza Building
www.campusstore.brocku.ca

The Book Store/Campus Store, conveniently located in the Plaza Building ground floor (next to the Alumni Student Centre), is the primary source of required textbooks (new and used) and recommended reading materials. It also stocks a wide selection of academic and general books including dictionaries, study and essay writing guides. A special order service is available at any time. The Book Store/Campus Store also stocks stationery, cards, magazines, clothing and memorabilia, computer hardware, software and computing supplies. Help is readily available, on request, for persons with special needs.

Campus Store hours: September to June:
Monday - Thursday 9:00 am to 7:00 pm,
Friday 9:00 am to 4:30 pm; July and August:
Monday - Friday 10:00 am to 4:30 pm

VI. Office of Alumni Relations

Director
Christine Jones

Administrative Assistant
Vera Terpak

905-688-5550, extension 3816
Thistle East 265
www.brocku.ca/alumni

With your graduation comes a new relationship with the University. You will have joined nearly 630,5000 graduates of Brock University. Full membership privileges including free borrowing privileges in the James A. Gibson Library and special membership prices at the Walker Complex, the Brock Centre for the Arts are available to anyone who holds a degree or certificate from the University.

As part of a worldwide network, there are many ways to keep in touch with the University and your fellow graduates. You will want to register with www.brockpeople.ca, your on-line connection to other Brock graduates. This community of graduates in-

cludes a complete listing of all graduates searchable by name, by faculty, by department or by class. You can use this feature to discover who has already joined the community, to find out where your friends are and what they are doing. You can also update your contact information, post news about yourself, and send messages to fellow graduates. Brockpeople.ca also features many special offers exclusive to Brock graduates and a discussion forum where you can exchange ideas, discuss issues, or engage in conversations with other grads. It's easy to join using your student identification number (your login) and your birth date (your password yymmdd).

If your mailing and e-mail address is current (through Brockpeople.ca), you will also receive the Surgité magazine, published two times a year and the e-newsletter, published six times a year. Also, Brock's TeleGrad Annual Fund students contact graduates annually to provide an update on what is happening at Brock and to invite support for the University's greatest needs, capital appeals or surveys. All Brock students are the beneficiaries of the support from Brock's graduates.

The Office of Alumni Relations is your main contact for alumni programs and services. Alumni Relations arranges Homecoming (Brock Days) and other graduate reunions, affinity programs, networks of graduates across Canada and internationally, student alumni initiatives and volunteer opportunities. Alumni Relations also works closely with the volunteer members of the Brock University Alumni Association, representing the collective interests of Brock's graduates.

VII. Development and Donor Relations

Director
Doug Earle

Assistant to the Director
Sheila Morrison

905-688-5550, extension 4190
Fax: 905-641-5216
Thistle East 265
<http://www.brocku.ca/alumni/index.php>

The Office of Development and Donor Relations is responsible for the co-ordination of all fundraising activities at Brock. The department develops programs to engage private support that will advance Brock University's Mission. Our donors help us improve programs and facilities, and enhance our ability to attract and retain deserving students, excellent faculty and staff.

Gifts can be given to one of three charitable organizations: Brock University (a registered charity); The Brock University Foundation (a Crown foundation), and; the Friends of Brock University Inc. (established to receive charitable gifts from U.S. citizens). Board of Trustee and Canada Revenue Agency policies govern the department's activities.

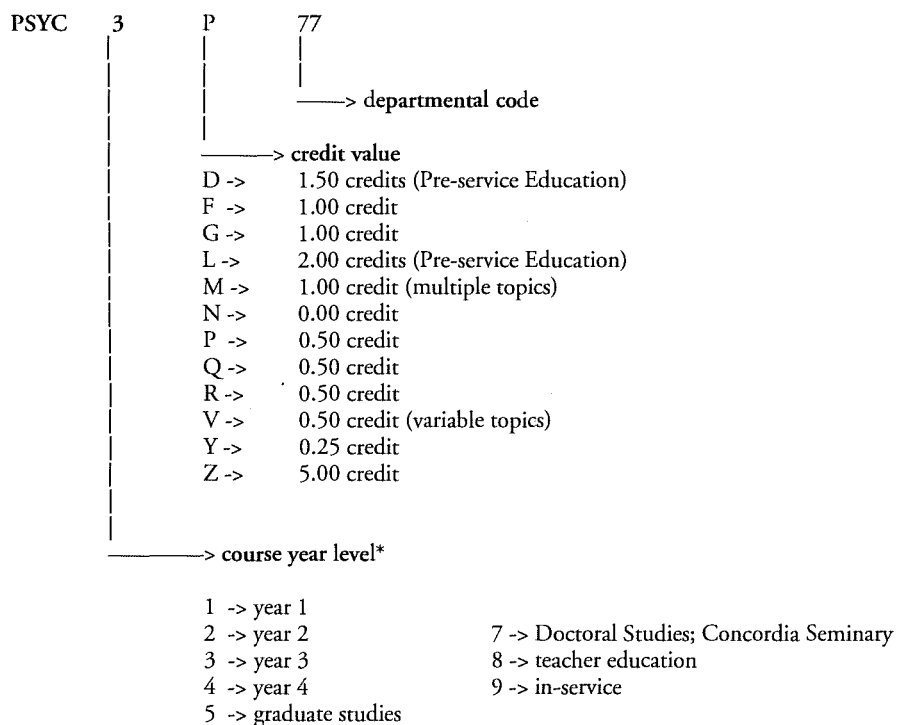
Gifts of cash either pledged over time or as a one-time donation, planned gifts and bequests, gifts of real estate, securities, equipment, books and journals, and artwork, funding for student financial assistance awards, are some of the many ways donors support the work of Brock University. Donations to Brock University are eligible for charitable receipts for income tax purposes.

Office of Development and Donor Relations
Brock University
St. Catharines ON
L2S 3A1

Course Description, Anatomy of

Course Name and Number ⇒	* PSYC 3P77
Course Title ⇒	Social Development
Cross-listing Information ⇒	(also offered as CHYS 3P77)
Course Description ⇒	Social competence, aggression, friendship and other topics in social development from a variety of developmental perspectives. Methodological and intervention issues relevant to the study of social development.
Course Format ⇒	Lectures, seminar, 3 hours per week.
Course Restriction ⇒	Restriction: open to PSYC (single or combined), CHYS (single or combined), CHYS BA (Honours)/ BEd (Primary/Junior) and CHYS BA (Pass)/Bed majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90. Prerequisite: PSYC 2P12 (2F12), CHYS 2F10 or permission of the instructor.
Course Prerequisite ⇒ (note that ";" indicates "and")	
Course Note ⇒	Note: students may not concurrently register in CHYS 3P24.
Course Exclusion ⇒	Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P24 and PSYC (CHYS) 3Q94.

Course Numbering System



* courses numbered 2(alpha)90 - 2(alpha)99 may be used as either a year 2 credit or year 3 credit and courses numbered 3(alpha)90 - 3(alpha)99 may be used as either a year 3 credit or a year 4 credit.

Course Title Abbreviations

ABST	Aboriginal Studies	MATH	Mathematics
ACTG	Accounting	MGMT	Management
ADED	Adult Education	MKTG	Marketing
ADMI	Administration	MLLC	Modern Languages, Literatures and Cultures
AESL	Academic English as a Subsequent Language	MUSI	Music
APCO	Applied Computing	NEUR	Neuroscience
ARAB	Arab	NUSC	Nursing
ASTR	Astronomy	OBHR	Organizational Behaviour and Human Resources
BCHM	Biochemistry	OEVI	Oenology and Viticulture
BIOL	Biology	OPER	Operations Management
BPHY	Biophysics	PCUL	Popular Culture
BTEC	Biotechnology	PEKN	Physical Education and Kinesiology
CANA	Canadian Studies	PHIL	Philosophy
CHEM	Chemistry	PHYS	Physics
CHSC	Community Health Sciences	POLI	Political Science
CHYS	Child and Youth Studies	PORT	Portugese
CLAS	Classics	PSYC	Psychology
COMM	Communication Studies	RECL	Recreation and Leisure Studies
COSC	Computer Science	RUSS	Russian
DART	Dramatic Arts	SCIE	Science
ECON	Economics	SOCI	Sociology
EDUC	Education	SPAN	Spanish
ENGL	English	SPMA	Sport Management
ENTR	Entrepreneurship	STAC	Studies in Arts and Culture
ERSC	Earth Sciences	SWAH	Swahili
ESCI	Science	TREN	Tourism and Environment
ETHC	Ethics	VISA	Visual Arts
FILM	Film	WISE	Women's Studies
FNCE	Finance	WRIT	Writing
FREN	French		
GEOG	Geography		
GERM	German		
GREE	Greek		
HIST	History		
IASC	Interactive Arts and Science		
INTC	Intercultural Studies		
ITAL	Italian		
ITIS	Information Technology		
	Information Systems		
JAPA	Japanese		
LABR	Labour Studies		
LART	Liberal Arts		
LATI	Latin		
LING	Linguistics		
MAND	Mandarin		
MARS	Medieval and Renaissance Studies		

Aboriginal Studies

Director
Michael Manley-Casimir

General Information

Administrative Co-ordinator
Janie Hodson

905-688-5550, extension 3971
Captain John DeCew 104

The Tecumseh Centre for Aboriginal Research and Education offers a program leading to a Certificate in Aboriginal Language. The program provides an in-depth study of an Aboriginal language and culture from beginner to advanced level.

The requirements for admission to the certificate program are the same as admission to a degree program. See "Certificate Requirements" under Academic Regulations.

Aboriginal Studies courses may be taken for credit as electives in any degree program. Language courses in Mohawk and Cayuga satisfy the Language Requirement for Humanities majors. ABST 2F90, 2F91 or 2F92 may be taken as a credit in History.

Certificate in Aboriginal Language

The Certificate is awarded upon completion of the following courses with a minimum 60 percent overall average:

- ABST 1P01, 1P02, 2F01 and 3F01
- two credits from ABST 2F91, 2F97, 4F01

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course
* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ABST 1F20
Introduction to Algonkian Languages
Common sentence forms and vocabulary taught by audio-lingual methods. Listening, reading and writing of stories recorded by native speakers. Extended dialogues and storytelling to increase fluency in speech and reading.
Lectures/seminar, 3 hours per week.

ABST 1F90
Introduction to Aboriginal Studies
Native cultures in contemporary North America. Diverse and common features of different nations; effects of geography, politics, history and language use.
Lectures/seminar, 3 hours per week.

ABST 1P01
Introduction to Mohawk I
Common sentence forms and vocabulary taught by audio-lingual methods. Listening, reading and writing of stories recorded by native speakers. Materials chosen for cultural and linguistic content. About one-third of class time is devoted to study of the Mohawk culture.
Lectures, lab, 4 hours per week.

ABST 1P02
Introduction to Mohawk II
Extended dialogues and storytelling to increase fluency in speech and reading. Transcription of and response to recorded language samples to extend writing in the Mohawk language.
Lectures, lab, 4 hours per week.
Prerequisite: ABST 1P01.

ABST 1P03
Introduction to Cayuga I
Common sentence forms and vocabulary

taught by audio-lingual methods. Listening, reading and writing of stories recorded by native speakers are used. Materials are chosen for cultural and linguistic content. About one-third of class time is devoted to study of the Iroquois culture.
Lectures, lab, 4 hours per week.

ABST 1P04
Introduction to Cayuga II
Extended dialogues and storytelling to increase fluency in speech and reading. Transcription of and response to recorded language samples to extend writing in the Cayuga language.
Lectures, lab, 4 hours per week.
Prerequisite: ABST 1P03.

ABST 1P31
Introduction to Michif Language I
Common sentence forms and vocabulary taught by audio-lingual methods. Listening, reading and writing of stories recorded by native speakers including an introduction to the Métis culture.
Lectures/seminar, 3 hours per week.

ABST 1P32
Introduction to Michif Language II
Extended dialogues and storytelling to increase fluency in speech and reading. Transcription of, and response to, recorded language samples to extend writing in the Michif language.
Lectures/seminar, 3 hours per week.
Prerequisite: ABST 1P31 or permission of the instructor.

ABST 1P50
Aboriginal Spirituality I
Comparative survey of Aboriginal spiritual traditions and the influence on contemporary lifestyle and thought of peoples residing in Canada and the United States.
Lectures/seminar, 3 hours per week.

ABST 1P51
Aboriginal Spirituality II
Study of the similarities and differences in Iroquois and Anishinabe spiritual tradition and belief systems.
Lectures/seminar, 3 hours per week.
Prerequisite: ABST 1P50 or permission of the instructor.

ABST 2F01
Intermediate Mohawk
Development of communication abilities and acquisition of the punctual, indefinite and perfect verb forms; transitive pronouns, noun incorporation and locatives. Extension of literacy and oral skills through taped and written traditional stories.
Lectures, lab, 4 hours per week.
Prerequisite: ABST 1P02.

ABST 2F20

Intermediate Algonkian Languages

Development of communication abilities and acquisition of the punctual, indefinite and perfect verb forms; transitive pronouns, noun incorporation and locatives. Extension of literacy and oral skills through taped and written traditional stories.

Lectures/seminar, 3 hours per week.

Prerequisite: ABST 1F20 or permission of the instructor.

ABST 2F90

Studies in Aboriginal History I

History of a selected Aboriginal society emphasizing the historical perceptions, developments and interpretations of that society.

Lectures, seminar, 3 hours per week.

ABST 2F91

Studies in Hodonohsonni History (in Mohawk)

History of a selected Hodonohsonni society emphasizing the historical perceptions, developments and interpretations of that society.

Lectures, seminar, 3 hours per week.

Note: this course is taught in Mohawk.

ABST 2F92

Studies in Aboriginal History II

Independent study in an area of mutual interest to the student and the instructor.

ABST 2F96

Studies in Aboriginal Culture I

Culture of a selected Aboriginal society emphasizing the cultural perceptions, developments and interpretations of that society.

Lectures, seminar, 3 hours per week.

ABST 2F97

Studies in Hodonohsonni Culture (in Mohawk)

Culture of a selected Hodonohsonni society emphasizing the cultural perceptions, developments and interpretations of that society.

Lectures, seminar, 3 hours per week.

Note: this course is taught in Mohawk.

ABST 2F98

Studies in Aboriginal Culture II

Independent study in an area of mutual interest to the student and the instructor.

ABST 2M90-2M95

Studies in Aboriginal History

Variable topics course that surveys the history of a selected Aboriginal society emphasizing the historical perceptions, developments and interpretations of that society.

Lectures, seminar, 3 hours per week.

ABST 2M96-2M99

Studies in Aboriginal Culture

Variable topics course that surveys the culture of a selected Aboriginal society emphasizing the cultural perceptions, developments and interpretations of that society.

Lectures, seminar, 3 hours per week.

ABST 2P03

Intermediate Cayuga I

Application of literacy skills and extension of vocabulary and listening skills by reading taped stories and legends and responding orally to audio-taped exercises and in writing to printed exercises.

Lectures, lab, 4 hours per week.

Prerequisite: ABST 1P04.

ABST 2P04

Intermediate Cayuga II

Development of communication abilities and acquisition of the grammatical forms of future, aorist, indefinite and perfect tenses; transitive pronouns, noun incorporation and locatives.

Lectures, lab, 4 hours per week.

Prerequisite: ABST 2P03.

ABST 2P96

Aboriginal Theatre

(also offered as DART 2P96)

Theatrical, dramatic and performative representation of Aboriginal peoples in the Canadian experience.

Prerequisite: DART 1F93 or permission of the instructor.

ABST 3F01

Advanced Mohawk

Focus on the Great Law and the Code of Handsome Lake. Study of the elevated language and contemporary significance of these works from a Mohawk perspective.

Lectures, lab, 4 hours per week.

Prerequisite: ABST 2F01.

ABST 3F03

Advanced Cayuga

Focus on the Great Law and the Code of Handsome Lake. Study of the elevated language and contemporary significance of these works from a Cayuga perspective.

Lectures, lab, 4 hours per week.

Prerequisite: ABST 2P04.

ABST 3P46

Aboriginal Peoples in Canadian and Global Perspectives

(also offered as SOCI 3P46)

Contemporary struggles for cultural survival, land, self-determination and rights in the context of colonialism in Canada and globally. Diversity of indigenous peoples, including their internal debates and divides. Indigenous perspectives.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

ABST 4F01

The Iroquois Spirit

Three main cultural traditions of contemporary and traditional Iroquois: the Teharonhyawkoh - The Myth of the Earth Grasper (an extensive treatise on Iroquoian Cosmology), the Kayanere'kowa - Constitution of the Great Law and the Kariwiyo - the Code of Handsome Lake.

Lectures, lab, 4 hours per week.

Prerequisite: ABST 3F01 or 3F03.

Note: this course will be conducted partially in the Mohawk language and utilize guest speakers who are recognized experts on the Iroquoian tradition.

Applied Linguistics

Chair

Thomas S.C. Farrell

Professors

Thomas S.C. Farrell, Hedy M. McGarrell, John N. Sivell

Associate Professors

Cheng Luo, Richard J. Welland

Assistant Professors

Lynn Dempsey, Veena D. Dwivedi, David Hayes, Ron Thomson, Deborah Yeager, Barbra Zupan, Mohammad Vahedi

Director of Co-operative Programs

Cindy Dunne

Academic Adviser

Liz Kaethler

General Information

Administrative Assistant

Leona Volterman

905-688-5550, extension 3374

Mackenzie Chown D450F

<http://www.brocku.ca/appliedlinguistics/>

At Brock University, Applied Linguistics involves the application of linguistic theories and methods of linguistic analysis in such areas as first or subsequent language acquisition, psycholinguistics, language teaching methodology, and speech, language and hearing sciences.

Linguistics focuses on language structure, first- and subsequent-language acquisition, the role of language in communication, and languages as products of cultures and other social groups. Linguists may or may not specialize in particular languages. Typically, they analyze similarities and differences among languages; such analyses can be used to develop, support or refute linguistic theories.

Linguistics provides an opportunity to apply scientific reasoning to language-based problem solving. A background in linguistics is essential for language teachers, translators, speech-language pathologists, audiologists and many other language professionals. Additionally, linguistic knowledge can provide a valuable foundation for human interaction and communication in a wide variety of fields.

The Department of Applied Linguistics offers programs of study leading to an Honours Bachelor of Arts (BA) degree in Applied Linguistics/Teaching English as a Subsequent Language, Hearing Sciences and Speech and Language Sciences. As well, the BA Honours Applied Linguistics/Teaching English as a Subsequent Language program offers a Co-op option. The Department also offers a four-year program of study leading to a BA with Major in Speech and Language Sciences, Pass BA degrees in Applied Linguistics, Hearing Sciences, and Speech and Language Sciences, a Certificate for Communication Disorders Assistants and Certificates in Hearing Sciences, Speech and Language Sciences and Teaching English as a Subsequent Language as well as a Minor in Applied Linguistics.

Skills-development courses in American Sign Language and Academic English as a Subsequent Language are also offered.

Applied Linguistics

Students have the opportunity to learn about theories concerning the analysis of language and their applications. Along with an introductory course in linguistics (LING 1F94), the Department offers foundation courses focusing on the sounds of language (phonetics and phonology), relationships among words in language (syntax), mutual influence between culture (and other group membership) and language (sociolinguistics), and ways in which language is used in context (pragmatics and discourse analysis) and is acquired.

Applied Linguistics/Teaching English as a Subsequent Language

This program provides background in theories and methodologies relevant to the learning and teaching of English as a subsequent language. Teaching English to non-English speakers is a complex process that requires an appropriate background in the theories and methodologies of language teaching and learning and a period of supervised teaching. For example, students have opportunities to learn about first- and second-language acquisition, the structure of English, language testing and methodologies for teaching specific language skills. Practice teaching is an essential feature of this program. A four-year co-op option is also available.

Graduating students from the Applied Linguistics/Teaching English as a Subsequent Language program normally are eligible for employment as teachers of English as a Subsequent Language in a variety of settings. Outstanding graduating students may be eligible for admission to graduate programs in Applied Linguistics (TESL).

Students interested in teaching language in the Ontario school system should consult the Ministry of Education and Training guidelines. In those guidelines, Language Courses mean English or any teachable (modern language) subject.

Hearing Sciences

Students in this major have the opportunity to learn about basic sciences (e.g., biology, physics), basic communication processes, including the anatomy and physiology of speech and hearing, acoustics, linguistics, child language development and about selected disorders of human communication. Honours students have the opportunity to prepare for admission to masters or clinical doctorate programs in Audiology (AuD); admissions to graduate schools are, however, offered only on a competitive basis. The minimum qualification to practice Audiology in Canada and the United States is currently a Master's degree.

Speech and Language Sciences

Students in this major have the opportunity to learn about basic sciences (e.g., biology), basic communication processes, including the anatomy and physiology of speech and hearing, acoustics, linguistics, child language development and about selected disorders of human communication. Honours students have the opportunity to prepare for admission to graduate study in Speech-Language Pathology; admissions to graduate schools are, however, offered only on a competitive basis. The minimum qualification to practice Speech-Language Pathology in Canada and the United States is a Master's degree.

Students in the Hearing Sciences and Speech and Language Sciences BA Pass programs have the opportunity to prepare for admission to post-baccalaureate training as Communication Disorders Assistants (CDAs), or for admission to a Faculty of Education.

Students wishing to major in any of the programs of study offered by the Department of Applied Linguistics must apply to declare their major. Declaration of Major forms are available on-line at <http://www.brocku.ca/registrar/forms/index.html> and from the Office of the Registrar. Students in three- and four-year degree programs normally register for courses according to the program of study effective at the time they first declared their major.

The faculty of the Department of Applied Linguistics believe that students benefit from a broadly based liberal arts background in conjunction with a Major in Applied

Linguistics, Applied Linguistics/Teaching English as a Subsequent Language, Hearing Sciences or Speech and Language Sciences. Students are therefore encouraged to acquire some background in other academic disciplines as part of their undergraduate education. Students who wish to pursue a four-year Honours degree must apply to be admitted to Year 4 after completing 15 credits. Application forms for Year 4 admission are available online at <http://www.brocku.ca/registrar/forms/index.html> and in the Office of the Registrar.

The requirements for graduation with a BA (Honours) are a minimum 70 percent major average and a minimum 60 percent non-major average. The requirements for a BA with Major are a minimum 60 percent major average and a minimum 60 percent overall average.

Co-op Program

The Applied Linguistics/Teaching English as a Subsequent Language Co-op program combines academic and two volunteer work placements in language-rich environments over a four-year period. Students spend two years in an academic setting prior to taking the first work placement. In addition to the current fees for courses in academic study terms, Applied Linguistics/Teaching English as a Subsequent Language Co-op students are assessed an annual administrative fee (see Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. Students with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue in the program. Students with a major average lower than 70 percent may not continue in the Applied Linguistics/Teaching English as a Subsequent Language Co-op program, but may continue in the regular Applied Linguistics/Teaching English as a Subsequent Language program. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-op Admissions Committee.

The Applied Linguistics/Teaching English as a Subsequent Language Co-op designation will be awarded to those students who have honours standing and who have successfully completed the two Co-op placements.

Language Requirement for Humanities Majors

Except for Applied Linguistics and Child and Youth Studies Combined majors, students in the Department of Applied Linguistics are

required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirement, both half-credits must be in the same language. Non-Indo-European language courses (Japanese, Mandarin Chinese, Mohawk) or American Sign Language courses are recommended.

Program Notes

1. LING 2P90 and one of BIOL 2P97, CHSC 2P09 meets the human physiology requirement for some graduate programs in Speech-Language Pathology.

2. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Applied Linguistics/Teaching English as a Subsequent Language (Honours only)

This program is recognized by TESL Ontario for professional accreditation as an Instructor of adult non-credit ESL in Ontario. Responsibility for maintaining appropriate documentation and applying for TESL Ontario certification rests with each student.

Year 1

- LING 1F94, 1P92 and 1P93
- one Science context credit
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one elective credit

Year 2

- LING 2P10, 2P50, 2P53 and 2P72
- one Humanities context credit
- two elective credits (LING 2P99 strongly recommended)

Year 3

- LING 3P51, 3P61, 3P71, 3P91, 3P93 3P94, 3P95 and 3Q91
- one elective credit

Year 4

- One of LING 3P93, 4P25, 4P41, 4P45, 4P99, 4V80-4V86
- LING 4P10 or 4P41
- LING 4P40, 4P82 and 4P83
- LING 4P80 or 4P81
- two elective credits

Hearing Sciences

Students who graduate from the Hearing Sciences program are not yet qualified to evaluate or treat individuals with hearing or vestibular disorders, nor are they qualified in any capacity for work in supervised or unsupervised provision of clinical services.

Year 1

- LING 1F94, 1P92 and 1P93
- BIOL 1F90 or CHEM 1F92
- one credit from PHYS 1P91, 1P92, 1P93
- PSYC 1F90

Year 2

- LING 2P10, 2P50, 2P53, 2P90 and 2P91
- BIOL 1F90 or CHEM 1F92 (not taken in year 1)
- one Humanities context credit or one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one-half elective credit (BIOL 2P05 or CHEM 2P20 strongly recommended)

Year 3

- LING 3P61, 3P71, 3P90 and 3P97
- PSYC 2P12
- one of CHSC 2P15, PSYC 2P36, 2P37, 2P49, 2P51, 3P19, 3P60, 4P63
- the Humanities context credit or language credit not taken in year 2
- one elective credit (BIOL 2F01 strongly recommended)

Year 4

- LING 4P20, 4P21 and 4P27
- one credit from LING 2P72, 3P94, 3P95, 3V80-3V99, 4F01, 4P10, 4P25, 4P26, 4P31, 4P32, 4P35, 4P45, 4P99, 4V87-4V93
- PSYC 2F23
- one and one-half elective credits (BIOL 3P51, PHYS 2P31 or 2P32 strongly recommended; CHSC 2P15, PSYC 2P36, 2P37, 2P49, 2P51, 3P19, 3P60, 4P63 recommended, if not taken in year 3)

Speech and Language Sciences

Students who graduate from the Speech and Language Sciences program are not yet qualified to evaluate or treat individuals with speech, language or swallowing disorders, nor are they qualified in any capacity for work in the provision of clinical services unless supervised by a registered Speech-Language Pathologist.

Year 1

- LING 1F94, 1P92 and 1P93
- PSYC 1F90
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one Science context credit (one credit from BIOL 1F90, PHYS 1P91, 1P92, 1P93 strongly recommended; see program note 1)

Year 2

- LING 2P10, 2P50, 2P53, 2P90 and 2P91
- PSYC 2P12 and 2F23
- one Humanities context credit

Year 3

- LING 3P51, 3P61, 3P71, 3P90, 3P94, 3P95, 3P97 and 3Q93
- one of PSYC 2P20, 2P36, 2P37, 3P19, 3P59, 3P60, 4P29, 4P35, 4P38
- one-half elective credit (BIOL 2P97 or CHSC 2P09 recommended; see program note 2)

Year 4

- LING 4P20, 4P21 and 4P27
- one and one-half credits from LING 2P72, 3V80-3V99, 4F01, 4P10, 4P25, 4P26, 4P31, 4P32, 4P35, 4P41, 4P45, 4P99, 4V87-4V93 two elective credits (PSYC 2P20, 2P36, 2P37, 3P19, 3P59, 3P60, 4P29, 4P35, 4P38 recommended, if not taken in year 2)

Applied Linguistics/Teaching English as a Subsequent Language Co-op (Honours only)

Students admitted to the Applied Linguistics/Teaching English as a Subsequent Language Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- LING 1F94, 1P92 and 1P93
- one Science context credit
- two elective credits

Year 2

- LING 0N90, 2P10, 2P50, 2P53 and 2P72
- one Humanities context credit
- two elective credits (LING 2P99 strongly recommended)

Spring/Summer Sessions:

- LING 0N11

Year 3

- LING 3P61, 3P71, 3P91, 3P94, 3P95 and 3Q91
- one credit from LING 3P51, 3P93, 3V80-3V99
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)

Spring/Summer Sessions:

- LING 0N12

Year 4

- One of LING 3P93, 4P25, 4P41, 4P45, 4P99, 4V80-4V86
- LING 4P10 or 4P41
- LING 4P40, 4P82 and 4P83
- LING 4P80 or 4P81
- two elective credits

BA with Major in Speech and Language Sciences

Year 1

- LING 1F94, 1P92 and 1P93
- PSYC 1F90
- one Science context credit (one credit from BIOL 1F90, PHYS 1P91, 1P92, 1P93 strongly recommended; see program note 1)
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)

Year 2

- LING 2P10, 2P50, 2P53, 2P90 and 2P91
- one Humanities context credit
- one and one-half elective credits (PSYC 2F23 strongly recommended; BIOL 2P97 or CHSC 2P09 recommended; see program note 2)

Year 3

- LING 3P51, 3P61, 3P71, 3P90, 3Q93, 3P94, 3P95 and 3P97
- one elective credit (PSYC 2P12 and one of PSYC 2P20, 2P36, 2P37, 3P19, 3P59, 3P60, 4P29, 4P35, 4P38 recommended)

Year 4

- Three credits from LING 2P72, 3V80-3V99, 4P10, 4P31, 4P32, 4P35, 4P41, 4P45, 4V87-4V93
- two elective credits (PSYC 2P20, 2P36, 2P37, 3P19, 3P59, 3P60, 4P29, 4P35, 4P38 recommended)

Pass Program

Satisfactory completion of the first three years of the Honours program in Hearing Sciences or Speech and Language Sciences entitles a student to apply for a Pass degree.

Applied Linguistics

Year 1

- LING 1F94, 1P92 and 1P93

- one Science context credit
- two elective credits (COMM 1F90 recommended; see program note 1)

Year 2

- LING 2P10, 2P50, 2P53, 2P72 and 2P99
- one Humanities context credit
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one-half elective credit

Year 3

- LING 3P61, 3P71, 3P93, 3P94, 3P95 and 3Q91
- two elective credits (ENGL 3P91 and 3P92 recommended)

Combined Major Program

Students may take a combined major in Applied Linguistics or Speech and Language Sciences and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Applied Linguistics

Year 1

- LING 1F94, 1P92 and 1P93
- one credit from the co-major discipline
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one Humanities context credit or one Science context credit

Year 2

- LING 2P10 and 2P50
- one credit from LING 2P53, 2P90, 2P91, 2P94, 2P99
- two credits from the co-major discipline
- the Humanities context credit or Science context credit not taken in year 1

Year 3

- LING 3P71
- one and one-half credits from LING 2P72, 3P61, 3P93, 3P94, 3P95, 3Q91, 3V80-3V99
- two credits from the co-major discipline one elective credit

Year 4

- Two credits from LING 4P10, 4P25, 4P26, 4P41, 4P45, 4P99, 4V94-4V99
- two credits from the co-major discipline one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Speech and Language Sciences

This program may be of interest to students who elect an alternate route to pursuing graduate studies in Speech-Language Pathology. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

Year 1

- LING 1F94, 1P92 and 1P93
- one credit from the co-major discipline
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one Science context credit (BIOL 1F90 strongly recommended)

Year 2

- LING 2P10, 2P50, 2P90 and 2P91
- two credits from the co-major discipline
- one Humanities context credit

Year 3

- LING 3P61 and 3P90
- one credit from LING 3P51, 3P94, 3P95, 3P97
- two credits from the co-major discipline
- one elective credit (PSYC 2F23 strongly recommended)

Year 4

- LING 4P20 and 4P21
- one credit from LING 2P72, 3P71, 3Q93, 3V80-3V99, 4P10, 4P25, 4P26, 4P27, 4P31, 4P32, 4P35, 4P41, 4P45, 4P99, 4V87-4V93
- two credits from the co-major discipline
- one elective credit (BIOL 2P97 or CHSC 2P09 recommended; see program note 2)

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Applied Linguistics and Child and Youth Studies

Honours

Year 1

- LING 1F94, 1P92 and 1P93
- CHYS 1F90
- PSYC 1F90
- SOCI 1F90

Year 2

- LING 2P50 and 2P90
- CHYS 2F10, 2P35 and 2P38
- MATH 1F92 or PSYC 2F23 (preferred)
- one Science context credit (BIOL 1F90 preferred)

Year 3

- LING 2P91, 3P61, 3P90 and 3P97
- CHYS 3P10 and 3P15
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P43, 3P44, 3P47, 3P60
- one Humanities context credit

Year 4

Group Thesis option:

- LING 4P20, 4P21 and 4P32
- LING 4P27 or 4P31
- CHYS 4F97 and 4P98 (see program note 5)
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- one-half elective credit (BIOL 2P97, CHSC 2P09, CHYS 3P21, 3P48 recommended; see program note 2)

Individual Thesis option:

- LING 4P20, 4P21 and 4P32
- LING 4P27 or 4P31
- CHYS 4F99 and 4P98 (see program note 5)
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- one-half elective credit (BIOL 2P97, CHSC 2P09, CHYS 3P21, 3P48 recommended; see program note 2)

Course Work option:

- LING 4P20, 4P21 and 4P32
- LING 4P27 or 4P31
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one CHYS credit numbered 4(alpha)00 to 4(alpha)99
- one elective credit (BIOL 2P97, CHSC 2P09, CHYS 3P21, 3P48 recommended; see program note 2)

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Applied Linguistics and English Language and Literature

Honours

English requirements must include one ENGL credit from List A; one ENGL credit from List B; one ENGL credit from List C. Consult the English Language and Literature entry for relevant list requirements.

Year 1

- LING 1F94
- one ENGL credit numbered 1(alpha)00 to 1(alpha)99 (ENGL 1F91 recommended)
- one language credit (see language requirement)
- one Science context credit
- one Social Science context credit

Year 2

- LING 2P10, 2P50 and 2P53
- two ENGL credits (see program note 1)
- one and one-half elective credits

Year 3

- LING 3P71
- two credits from LING 2P72, 2P99, 3P61, 3P93, LING 3P94 and 3P95, 3Q91
- one of ENGL 2P75 and 2P76, ENGL 3P91 and 3P92
- one ENGL credit (see program note 1)
- one-half elective credit

Year 4

- Two credits from LING 2P72, 2P99, 3P61, 3P93, 3P94, 3P95, 3V80-99, 4P10, 4P40, 4P41, 4P45, 4P82, 4P83, 4V80-4V86, 4V94-4V99
- two ENGL credits (see program note 1)
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Certificate Program

The Department of Applied Linguistics offers a Certificate for Communication Disorders Assistants, a Certificate in Hearing Sciences, a Certificate in Speech and Language Sciences and a Certificate in Teaching English as a

Subsequent Language (TESL/TEFL) for those individuals who already possess an undergraduate degree.

Certificate for Communication Disorders Assistants

Communication Disorders Assistants (also called Communicative Disorders Assistants, Speech-Language Pathology Assistants, or Audiology Assistants) are supportive personnel who work under the supervision of Speech-Language Pathologists or Audiologists. Their duties typically include screening (without interpretation) for speech, language and hearing disorders, preparing therapy materials for adults and/or children who have communication and/or swallowing disorders, conducting individual and/or group therapy sessions, reporting on therapy outcomes, and carrying out routine maintenance on clinical equipment. Communication Disorders Assistants (CDAs) are employed in the same settings as Speech-Language Pathologists and Audiologists, including hospitals, school boards, specialized rehabilitation centres and private practice.

The program is designed to inform students about therapeutic principles and approaches that are applicable to a variety of communication disorders and to prepare them for employment as CDAs. This program was designed to reflect descriptions of training requirements for supportive personnel published by the Canadian Association of Speech-Language Pathologists and Audiologists (CASLPA), the College of Audiologists and Speech-Language Pathologists of Ontario (CASLPO) and the American Speech-Language-Hearing Association (ASHA).

Students and graduates of this certificate program are eligible to join CASLPA as student supportive personnel members.

Students may apply to the program after completing the Hearing Sciences BA Pass degree or Speech and Language Sciences BA Pass degree or equivalent. Enrolment is limited; consequently, applicants with a minimum major average may not be admitted. Applicants must submit a résumé, official transcript(s), a letter of intent, and two letters of reference (see the Department website for further details).

The following prospective students for the Certificate for Communication Disorders Assistants program are strongly advised to contact the Department: (a) Individuals who are currently working as supportive personnel by virtue of a "grandparenting" clause; and (b) Individuals who have an undergraduate degree in a major other than Hearing Sciences or Speech and Language Sciences and who are

uncertain about the equivalency of their academic background.

Field placements are full-time and represent an integral component of this certificate program; students must therefore be available for and must successfully complete all placements to graduate.

Depending on their background preparation, students may be required to take additional courses. Extra credits may be taken in the same year with permission from the Dean of Humanities.

The certificate is awarded upon completion of the following courses with an overall average of 60 percent:

LING 0N30, 0N31, 0N32, 2P99, 4P18, 4P21, 4P27, 4P31, 4P32 and 4P35

CHYS 2P35

one of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60, 3P90

one-half elective credit (WRIT 1P96 strongly recommended)

Certificate in Hearing Sciences

Students may apply to the program after completing a BA or BSc degree in any discipline (other than communication sciences) with a minimum 75 percent major average. Applicants must have completed a half credit Introduction to Linguistics course or equivalent. It is recommended that applicants complete a course in either Developmental Psychology or Research Methods and Statistics prior to applying to this Certificate.

Students in this program have the opportunity to prepare for application to graduate study in Audiology by completing a selection of prerequisite courses, admissions to graduate schools are, however, offered only on a competitive basis. Students who graduate from the Certificate in Hearing Sciences are not yet qualified to evaluate or treat individuals with hearing or vestibular disorders, nor are they qualified in any capacity for work in supervised or unsupervised provision of clinical services.

Extra credits may be taken in the same year with permission from the Dean of Humanities. In view of probable graduate-school entry requirements, one or more of BIOL 1F90, 2F01, 3P51, CHEM 1F92, LING 1F94, 1P92, 3P51, PHYS 1P91, 1P92, 1P93, 2P31, 2P32, PSYC 2F23, 2F36 may be recommended as extra courses, depending on individual students' previous course work.

The certificate is awarded upon completion of the following courses with a minimum 70 percent overall average:

LING 1P93, 2P50, 2P90, 2P91, 3P61, 3P90, 3P97, 4P20, 4P21 and 4P27

Certificate in Speech and Language Sciences

Students in this program have the opportunity to prepare for application to graduate study in speech-language pathology by completing a selection of prerequisite courses; admissions to graduate schools are, however, offered only on a competitive basis. Students who graduate from the Certificate in Speech and Language Sciences are not yet qualified to evaluate or treat individuals with speech, language or swallowing disorders, nor are they qualified in any capacity for work in the provision of clinical services unless supervised by a registered Speech-Language Pathologist.

Students may apply to the program after completing a BA or BSc degree in any discipline (other than communication sciences) with a minimum 75 percent major average. Applicants must have completed a half credit Introduction to Linguistics course or equivalent. It is recommended that applicants complete either Developmental Psychology or Research Methods and Statistics prior to applying to this Certificate.

Extra credits may be taken in the same year with permission from the Dean of Humanities. In view of probable graduate-school entry requirements, one or more of LING 1F94, 1P92, PSYC 1F90, 2F23, 2P12 may be recommended as extra courses, depending on individual students' previous course work.

The certificate is awarded upon completion of the following courses with a minimum 70 percent overall average:

LING 1P93, 2P50, 2P90, 2P91, 3P61, 3P90, 3P97, 4P20 and 4P21

one of CHSC 2P09, LING 2P10, 2P53, 2P61, 2P99, 3P51, 3P92, 3P94, 3P95, 4P10, 4P27, 4P31, 4P32, 4P35, 4P41, 4P45, 4V87-4V93

Certificate in Teaching English as a Subsequent/Foreign Language

Students in this program learn about a wide range of practical and theoretical issues related to the teaching of English as a subsequent/foreign language. This certificate is recognized by TESL Ontario for professional accreditation as an adult non-credit ESL instructor in Ontario.

Students may apply to the program after completing a BA or BSc degree in any discipline (other than Applied Linguistics/Teaching English as a Subsequent Language or Teaching

English as a Subsequent Language) with a minimum 75 percent overall average.

The certificate is awarded upon completion of the following courses with a minimum 70 percent overall average:

- LING 1F94, 2P10, 3P91, 3Q91, 4P40, 4P80, 4P82 and 4P83
- LING 4P10 or 4P41

Minor in Applied Linguistics

Students in other disciplines can obtain a Minor in Linguistics by completing the following courses with a minimum 60 percent overall average:

- LING 1F94, 1P92, 1P93 and 2P10
- one of LING 2P50, 2P53, 2P90, 2P91, 2P94, 3P71
- two credits from LING 2P72, 2P99, 3P51, 3P61, 3P93, 3P94, 3P95, 3Q91, 3Q93, 3V80-99, 4P10, 4P25, 4P26, 4P41, 4P45, 4P99

Master of Arts (MA) in Applied Linguistics with a Specialization in Teaching English as a Subsequent/Foreign Language

The Department of Applied Linguistics offers courses leading to the MA degree in Applied Linguistics (with specialization in TESL). Both direct entry and bridged entry options are available. Please refer to the Graduate Calendar for details. For further information, please contact the Department's Graduate Officer.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for

which prerequisites and/or restrictions have not been met.

ACADEMIC ENGLISH AS A SUBSEQUENT LANGUAGE

AESL 1F82

English as a Subsequent Language

Development and refinement of listening, note-taking, reading, writing and speaking skills in English for academic settings. Academic production and research presentation.

Lectures, lab, 4 hours per week.

Note: open to students whose native language is not English and whose scores on standardized tests of English language proficiency are below the currently accepted thresholds.

Completion of this course will replace previous assigned grade and credit obtained in APLS 1P80 and 1P81.

AESL 1P90

Advanced Written English for Subsequent Language Learners

For students who wish to refine writing skills and techniques to meet basic academic/professional standards.

Lectures, lab, 4 hours per week.

Note: open to students whose native language is not English.

Completion of this course will replace previous assigned grade and credit obtained in APLS 1P90.

AESL 1P91

Advanced Spoken English for Subsequent Language Learners

Improvement of students' speaking skills through participation in seminars, oral presentations and simulations, while also seeking to improve their listening skills, grammar and vocabulary.

Lectures, lab, 4 hours per week.

Note: open to students whose native language is not English.

Completion of this course will replace previous assigned grade and credit obtained in APLS 1P91.

AESL 1P92

Advanced English for Subsequent Language Learners

Development and refinement of English language proficiency, reading and writing skills for preparation of academic essays and presentations, citation strategies for appropriate reference to sources, speaking and listening skills for in-class participation, discussion leadership and oral presentations.

Lectures, seminar, 4 hours per week.

Restriction: open to Level 5 IELP BAcc and BBA students until date specified in Registration guide. After that date open to all Level 5 IELP graduates and other students as

specified by the Office of the Registrar with permission of the Department.

Note: open to students whose first language is not English.

LINGUISTICS

LING 1F25

The Study of Language

Readings and discussion regarding language study past and present, including the study of language and its relation to thought. Form, meaning, and use of language as examined variously from one time and place to another. Role of language study in the discussion of a range of social phenomena and issues.

Lectures, seminar, 3 hours per week.

Note: major credit will not be granted to Department of Applied Linguistics majors.

LING 1F94

Introduction to General Linguistics

Phonetics, phonology, morphology, syntax and semantics, their evidence in language use, classification of human languages, language and society. Analysis of language data.

Lectures, seminar, 3 hours per week.

Note: this course is relevant to students interested in the structure and meaning of English and other languages, and particularly to those contemplating careers in language teaching, literary studies, translation, psycholinguistics, speech-language pathology, and audiology.

LING 1P00

American Sign Language I

Basic signing vocabulary and grammar, including a brief history of sign language. Focus on basic finger spelling, ASL terminology, expressive and receptive vocabulary, sentence structure, and conversational signs. Examination of issues in deaf culture. Introduces the Direct Experience method.

Lectures, seminar, 3 hours per week.

Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined), and CODC, HESC, SLSC and TESL Certificate students until date specified in Registration guide.

LING 1P01

American Sign Language II

Advanced structures, including the manual alphabet, finger spelling, and American Sign Language vocabulary and grammar. Emphasis on mastery of advanced expressive and receptive vocabulary. Ongoing debates in deaf culture.

Lectures, seminar, 3 hours per week.

Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined), and CODC, HESC, SLSC and TESL Certificate students until date specified in Registration guide.

Prerequisite: LING 1P00.
Note: conducted entirely in ASL.

LING 1P92

Introduction to the Psychology of Language
Contemporary theories of psycholinguistics. Critical appraisal of the defining features of 'language', research on linguistics and the brain, theories of socio-cultural influences on language and of typical language acquisition.
Lectures, seminar, 3 hours per week.
Note: This course is of interest to students in education, behavioural and social sciences, health sciences and to students intending to pursue subsequent professional training in speech-language pathology or audiology.

LING 1P93

Introduction to Communication Disorders
Critical appraisal of contemporary theories and research concerning atypical speech, language and hearing development and of acquired disorders of speech, language and hearing. Topics include differentiation of communication disorder from communication difference, articulation and phonological disorders, language disorders of children and adults, stuttering and hearing loss.
Lectures, seminar, 3 hours per week.
Note: this course is of interest to students in education, behavioural and social sciences, health sciences and to students intending to pursue subsequent professional training in speech-language pathology or audiology.

LING 2P01

American Sign Language III
Further development of conversational fluency and comprehension in American Sign Language and continued examination of deaf culture.
Lectures, seminar, 3 hours per week.
Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined), and CODC, HESC, SLSC and TESC Certificate students until date specified in Registration guide.
Prerequisite: LING 1P01.
Note: conducted entirely in ASL.

LING 2P02

American Sign Language IV
Advanced American Sign Language vocabulary and grammar, emphasizing mastery of advanced expressive and receptive vocabulary. Ongoing debates in deaf culture.
Lectures, seminar, 3 hours per week.
Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined), and CODC, HESC, SLSC and TESC Certificate students until date specified in Registration guide.

Prerequisite: LING 2P01.
Note: conducted entirely in ASL.

LING 2P10

Fundamentals of English Grammar
Introductory description of English grammar focusing on basic principles and terminology.
Lectures, discussion, 3 hours per week.
Note: this course is relevant to the needs of those embarking on the linguistic study of English, to current or prospective teachers or teaching assistants and foreign language students.

LING 2P50

Phonetics
Further study of human speech sounds, including their articulatory, auditory, and acoustic properties. Laboratory exercises in transcription, production and auditory discrimination.
Lectures, lab, 3 hours per week.
Prerequisite: LING 1F94 or permission of the Chair.

LING 2P53

Phonology
Further study of sounds and how they pattern in languages, focusing on the analysis of data from a wide variety of languages.
Lectures, seminar, 3 hours per week.
Prerequisites: LING 1F94 and 2P50.

* LING 2P72

Sociolinguistics
(also offered as INTC 2P72)
Language in its social context: bilingualism and linguistic variation; social factors that interact with language; cultural implications of language learning and language behaviour.
Lectures, seminar, 3 hours per week.
Completion of this course will replace previous assigned grade and credit obtained in INTL 2P72.

LING 2P90

Anatomy and Physiology of Speech Production
Structural and functional bases of respiration, phonation and articulation for the production of speech and voice. Introduction to physiological measurement and theories of speech breathing and phonation.
Lectures, 3 hours per week; lab, 2 hours per week.
Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined), and CODC, HESC, SLSC and TESC Certificate students until date specified in Registration guide.
Prerequisites: LING 1P92 and 1P93.

LING 2P91

Acoustic and Physiological Phonetics
Acoustic, physiological and perceptual characteristics of speech. Simple and complex waveforms, acoustic phonetic features of vowels, semi-vowels and consonants, source-filter theory, airflow, air pressure and other physiological measurements of speech and voice production. Theories and models of speech motor control and speech perception.
Lectures, lab, 3 hours per week.
Prerequisites: LING 1F94 and 2P90.

LING 2P94

Comparative Analysis of Romance Linguistics
(also offered as MLLC 2P94)
Romance languages; their structures, related concepts, differences and mutual influences.
Lectures, seminar, 3 hours per week.
Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

* LING 2P99

Literacy in Childhood and Youth
(also offered as CHYS 2P99)
Exploration of selected issues in literacy development. Topics may include reading, writing, the impact of information technology on literacy development in the Canadian or global context.
Lectures, seminar, 3 hours per week.
Prerequisite: LING 1F94 or PSYC 1F90.

LING 3P51

Applied Phonetics
Techniques for the analysis of speech sound production Application of phonetic transcription skills to the description and analysis of speech sounds produced by a variety of speakers, including subsequent language speakers, young children and phonologically impaired speakers of first and subsequent languages.
Lectures, lab, 3 hours per week.
Prerequisite: LING 2P50.

* LING 3P61

Child Language Acquisition: Early Stages
(also offered as CHYS 3P61 and PSYC 3P61)
Theories, research and methods in early language development. Linguistic stages in the development of child language at the level of grammar and meaning (phonology, morphology, syntax, semantics, pragmatics). Discourse as an indicator of the socialization process. Effects of interaction with care givers. Early bilingualism.
Lectures, seminar, 3 hours per week.
Prerequisites: LING 1P92 and 1P93, or PSYC 1F90
Note: LING 1F94 strongly recommended.

LING 3P71

Syntax

Syntactic analysis focusing on the description of English, including basic concepts, categories, rules and principles and relevant analytical techniques.

Lectures, seminar, 3 hours per week.

Prerequisites: LING 1F94 and 2P10 or permission of the Chair.

LING 3P90

Language Disorders in Children and Youth

Theories and methods of assessment and intervention concerning developmental and acquired disorders of language in children and youth.

Lectures, lab, 3 hours per week.

Prerequisite: LING 3P61 or permission of the Chair.

LING 3P91

Materials and Curriculum Design

Theoretical foundations, development and/or adaptation of subsequent language syllabi; planning, managing, and delivering subsequent language instruction in various methodological frameworks, including materials assessment, needs analysis and practical classroom experience.

Lectures, seminar, 3 hours per week.

Restriction: open to TESL majors and TESC Certificate students.

Prerequisites: LING 1F94 and 3Q91.

Note: LING 1F94 and 3Q91 may be taken concurrently.

* LING 3P93

Gender and Language

(also offered as WISE 3P93)

Role of language in the construction and maintenance of contemporary masculinities and femininities.

Lectures, seminar, 3 hours per week.

LING 3P94

Semantics and Pragmatics

Linguistic meaning and speaker meaning examined through comparison of major theoretical frameworks and application of analytic techniques to relevant data.

Lectures, seminar, 3 hours per week.

Prerequisite: LING 1F94 or permission of the Chair.

LING 3P95

Discourse Analysis

Textual and contextual analysis of discourse in terms of language variation, cohesion and coherence, topicality and schematic knowledge. Application of discourse theories to such domains as literary analysis and language acquisition. Collection, transcription and analysis of data.

Lectures, seminar, 3 hours per week.

Prerequisite: LING 1F94 or permission of the Chair.

LING 3P97

Introduction to Audiology

Review of anatomy and physiology of hearing. Hearing disorders from a lifespan perspective (preschool to older adult populations). Approaches to prevention, assessment and treatment.

Lectures, lab, 3 hours per week.

Prerequisites: LING 1P92 and 1P93 or permission of the Chair.

* LING 3Q91

Subsequent Language Acquisition and Learning

(also offered as PSYC 3Q91)

Theories of subsequent-language learning. Topics include psychological aspects of language learning (behaviourism, cognitivism, humanism), language and culture, contrastive analysis, error analysis, interlanguage.

Lectures, seminar, 3 hours per week.

LING 3Q93

Introduction to Neurolinguistics

Theories of neurolinguistics and human neuroanatomy. Brain-language relationships and adult-onset neurogenic disorders of language processing and production.

Lectures, seminar, 3 hours per week.

Prerequisite: LING 1P92 and 1P93, or PSYC 1F90.

LING 3V80-3V99

Special Issues in Applied Linguistics

Selected issues in the theory and/or practice of linguistics. Topics according to specific areas of instructional expertise.

Lectures, seminar, 3 hours per week.

LING 4F01

Honours Thesis

Research project carried out with faculty supervision.

Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined) and TESL majors with approval to year 4 (honours).

Note: students must consult the Chair and an adviser before being admitted to the course.

LING 4P10

Topics in Subsequent Language Acquisition and Learning

Critical examination of current theories in subsequent language acquisition and learning and applications to practice worldwide. Topics may include cognitive mechanisms and social factors (e.g., individuals and language identity) in subsequent language acquisition and learning, speech communities, interlanguage,

and issues in subsequent language policy and planning.

Seminar, 3 hours per week.

Restriction: open to APLI (single or combined), HEAR, SPLS (single or combined) and TESL majors with approval to year 4 (honours), and SLSC and TESC Certificate students.

LING 4P18

Assisting in Speech and Language Assessments

Role of supportive personnel in the evaluation of speech and language disorders. Topics include speech, language and hearing screening, the four-handed assessment model, computer-assisted evaluations and computerized and other record-keeping.

Lectures, lab 4 hours per week.

Restriction: open to CODC Certificate students.

LING 4P20

Evaluation of Speech and Language Disorders

Principles and procedures of clinical evaluation in speech-language pathology from initial referral to report writing. Topics include clinical interviewing, psychometric properties of norm-referenced tests, instrumental and other forms of measurement and ethical and cultural considerations for assessing speech, voice and language disorders across the lifespan.

Lectures, 3 hours per week; lab, 2 hours per week.

Restriction: open to HEAR and SPLS (single or combined) majors with approval to year 4 (honours), HESC and SLSC Certificate students.

LING 4P21

Clinical Observation of Communication Disorders

Directed observation in the evaluation and treatment of speech, language, hearing and/or swallowing disorders. Observation experience may include videotape analyses and visits to off-campus clinical observation sites.

Lectures, seminar, 3 hours per week; clinical observations.

Restriction: open to HEAR and SPLS (single or combined) majors with approval to year 4 (honours), CODC, HESC and SLSC Certificate students.

Note: clinical observation placements are normally arranged by the course instructor. Transportation to placement sites is a student responsibility. Proof of vaccination and satisfactory criminal background check may be required. Hospitals, specialized rehabilitation centres, and school boards often require both of these before students are permitted to observe.

LING 4P25

Research Practicum

Supervised participation in faculty-directed research projects.

Restriction: open to APLI (single or combined), HEAR, SPLS (single or combined) and TESL majors with approval to year 4 and permission of the Chair.

Note: students must have a faculty adviser who is willing to supervise before they can be admitted to the course. Completion of a learning journal, a reflective paper, data collection or analysis assignments or collaboration in the production of a conference presentation or journal article is required.

LING 4P27

Assistive Listening Devices and Aural Rehabilitation

Acoustics and psychoacoustics of hearing. Review of anatomy and physiology of the ear. Electroacoustic characteristics and maintenance of a variety of assistive listening devices. Principles and methods of aural rehabilitation. *Lectures, seminar/lab, 3 hours per week.*

Restriction: open to HEAR and SPLS (single or combined) majors with approval to year 4 (honours), CODC, HESC, and SLSC Certificate students.

Prerequisite: LING 3P97.

Note: Certificate for Communications Disorder Assistant students may participate in clinical practica. Transportation to and from clinical sites is a student responsibility. Proof of vaccination and satisfactory criminal background check may be required. Hospitals, specialized rehabilitation centres and school boards often require both of these before students are permitted direct contact with patients or pupils.

LING 4P31

Augmentative and Alternative Communication

Principles and methods of low and high-tech alternative and augmentative communication (AAC) intervention. Psychosocial aspects of severe communication disability and AAC use. Customization of AAC systems to match client goals, needs, and skills, including computer-based approaches. *Lectures, lab/seminar, 4 hours per week.*

Restriction: open to HEAR and SPLS (single or combined) majors with approval to year 4 (honours), CODC, HESC and SLSC Certificate students.

Prerequisites: LING 1P92 and 1P93 or permission of the Chair.

Note: Certificate for Communications Disorder Assistant students may participate in clinical practica. Transportation to and from clinical sites is a student responsibility. Proof of vaccination and satisfactory criminal background check may be required. Hospitals, specialized rehabilitation centres and school boards often require both of these before students are permitted direct contact with patients or pupils.

LING 4P32

Speech Disorders in Children and Youth

Current therapeutic approaches to common speech disorders. Topics may include treatment approaches for the amelioration of swallowing disorders, articulation/phonological disorders, voice disorders and fluency disorders. *Lectures, seminar, 3 hours per week.*

Restriction: open to HEAR and SPLS (single or combined) majors with approval to year 4 (honours), CODC, HESC, and SLSC Certificate students.

Prerequisites: LING 2P50 and 3P61 or permission of the Chair.

LING 4P35

Speech and Swallowing Disorders in Adults

Current therapeutic approaches to common speech disorders of adults, especially older adults, including speech motor control disorders, voice disorders (especially laryngectomy) and fluency disorders. Treatment approaches for the amelioration of swallowing disorders common to older adults. *Lectures, seminar, 3 hours per week.*

Restriction: open to HEAR and SPLS (single or combined) majors with approval to year 4 (honours), CODC, HESC, and SLSC Certificate students.

Prerequisites: LING 2P50 and 2P90 or permission of the Chair.

LING 4P40

Language Testing

Theories and practices of language testing in research and teaching. Focus on critical analysis and evaluation of psychometric and pragmatic tests through item analysis and/or latent trait measurement. *Lectures, seminar, 3 hours per week.*

Restriction: open to APLI (single or combined) and TESL majors with approval to year 4 (honours), and TESC Certificate students.

Prerequisite: LING 1F94 or permission of the Chair.

LING 4P41

Bilingualism

Linguistic and constraints on mixing and code-switching, the organization of the bilingual lexicon, language processing in bilinguals, language attrition. *Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94 or PSYC 1F90.

LING 4P45

Research Issues in Applied Linguistics

Critical examination and application of current linguistic theories. Topics may include the analysis of language in relation to ethnicity, class and power in institutional and other social

settings (sociolinguistics), in relation to language teaching or in relation to other applied linguistics domains.

Seminar, 3 hours per week.

Restriction: open to APLI (single or combined), HEAR, SPLS (single or combined) and TESL majors with approval to year 4 (honours), and SLSC and TESC Certificate students.

Prerequisite: LING 1F94 or permission of the Chair.

Completion of this course will replace previous assigned grade and credit obtained in LING 4P50 and 4P61.

LING 4P80

Supervised Teaching

Class observation, including planning, managing and delivering subsequent language instruction. Seminar discussions on current conceptual knowledge (theoretical) and perceptual knowledge (practical) highlighted with reference to the subsequent language teaching and learning context. *Observations and seminars, 4 hours per week.*

Restriction: open to TESL majors with approval to year 4 (honours) and TESC Certificate students and permission of the Chair.

LING 4P81

Reflective Practicum

Supervised class observation of lesson planning, teaching and evaluation. Issues related to subsequent language teaching in diverse contexts. *Lectures, seminar, 3 hours per week.*

Restriction: open to APLI (single or combined) and TESL majors with approval to year 4 (honours), and TESC Certificate students.

Prerequisite: LING 3Q91.

Note: not approved by TESL Ontario as meeting the supervised teaching requirements for TESL Ontario Certification as an adult ESL instructor. LING 3Q91 may be taken concurrently.

LING 4P82

Teaching Listening and Speaking in a Subsequent Language

Theories of and issues in the development of oral language processing in a subsequent language. Canadian Language Benchmarks. Implications and applications for selected teaching and learning situations. *Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94 or permission of the Chair.

Restriction: open to APLI (single or combined) and TESL majors with approval to year 4 (honours) and TESC Certificate students.

Prerequisite: LING 1F94 or permission of the Chair.

LING 4P83

Teaching Reading and Writing in a Subsequent Language

Selected theories and models underlying

reading and writing ability. Their relationship to the concept of "grammar" and influence on inter-language development. Canadian Language Benchmarks. Implications and applications for selected teaching and learning situations.

Lectures, seminar, 3 hours per week.

Restriction: open to APLI (single or combined) majors and TESL majors with approval to year 4 (honours) and TESC Certificate students.
Prerequisite: LING 1F94 or permission of the Chair.

LING 4P99

Honours Tutorial

Individual topic, directed readings and/or student research chosen in consultation with a faculty member who is willing to supervise the student.

Restriction: open to APLI (single or combined), HEAR, SPLS (single or combined) majors, and TESL majors with a minimum 70 percent major average, approval to year 4 and permission of the Chair.

LING 4V80-4V86

Advanced Topics in Applied Linguistics/ Teaching English as a Subsequent Language
Selected topics in applied linguistics/teaching English as a subsequent language. Topics may vary according to specific faculty interest and expertise.

Lectures, seminar, 3 hours per week.

Restriction: open to APLI (single or combined) and TESL majors with approval to year 4 (honours) and TESC Certificate students until date specified in Registration guide.

LING 4V87-4V93

Advanced Topics in Speech, Language and Hearing Sciences

Selected topics in speech, language and hearing sciences related to specific faculty interest and expertise.

Lectures, seminar, 3 hours per week.

Restriction: open to HEAR, SPLS (single and combined) with approval to year 4 (honours), and CODC, HESC and SLSC Certificate students until date specified in Registration guide.

LING 4V94-4V99

Advanced Topics in Applied Linguistics

Selected topics in language acquisition, psycholinguistics or other applied linguistics fields related to specific faculty interest and expertise.

Lectures, seminar, 3 hours per week.

Restriction: open to APLI (single or combined), HEAR, SPLS (single and combined) and TESL majors with approval to year 4 (honours), and CODC, HESC, SLSC and TESC Certificate students until date specified in Registration guide.

CO-OP COURSES

LING 0N11

Work Placement I

First co-op placement (4months) with an approved employer.

Restriction: open to TESL Co-op students.

LING 0N12

Work Placement II

Second co-op placement (4months) with an approved employer.

Restriction: open to TESL Co-op students.

LING 0N90

Co-op Training and Development

Framework for the development of learning objectives by students for individual work terms. Includes orientation to the co-op experience, goal setting, resume preparation, interview skills preparation.

Restriction: open to TESL Co-op students.

NON-CREDIT COURSES

LING 0N30

Field Placement Preparation

Framework for the development of learning objectives by students for field practica, including orientation to the field practicum experience, goal setting for behavioural competencies, orientation to the roles and responsibilities of Communication Disorders Assistants, Audiologists and Speech-Language Pathologists, contemporary practices in health care delivery and documentation, infection control, resume preparation and interview skills preparation.

Lectures, presentations, site visits, 3 hours per week.

Restriction: open to CODC Certificate students.

LING 0N31

Field Placement I

First field placement under the supervision of a practicing speech-language pathologist or audiologist. Orientation to the roles and responsibilities of Communication Disorders Assistants, Audiologists and Speech-Language Pathologists.

Restriction: open to CODC Certificate students.

Prerequisite: LING 0N30.

Note: minimum 240 hours. Some field placement sites may require students to commute to/from their place of residence. Transportation to and from, sites is a student responsibility. Proof of vaccination and satisfactory criminal background check may be required. Hospitals, specialized rehabilitation centres, and school boards often require both of these before students are permitted direct contact with patients or pupils.

LING 0N32

Field Placement II

Second field placement under the supervision of a practicing speech-language pathologist or audiologist. Continued orientation to the roles and responsibilities of Communication Disorders Assistants, Audiologists and Speech-Language Pathologists.

Restriction: open to CODC Certificate students.

Prerequisite: LING 0N31.

Note: minimum 260 hours. Some field placement sites may require students to commute to/from their place of residence, or may require them to relocate (within Ontario). Transportation to and from, or relocation near, clinical sites is a student responsibility. Proof of vaccination and satisfactory criminal background check may be required. Hospitals, specialized rehabilitation centres, and school boards often require both of these before students are permitted direct contact with patients or pupils.

LING 0N80

Teaching Practicum for Teachers of English as a Subsequent Language

Classroom observation, supervised teaching in adult ESL classroom. Discussions of issues relevant to ESL classroom pedagogy.

Observations, seminar, 4 hours per week.

Restriction: permission of the Chair.

Note: open to individuals needing stand-alone practicum for TESL Ontario Certification.

Biochemistry

This program is offered through the Departments of Biological Sciences and Chemistry

Co-ordinators

Gary Pickering TBA (as of July 1, 2009),
Department of Biological Sciences
Heather Gordon, Department of Chemistry

General Information

Administrative Assistant

Beulah Alexander

905-688-5550, extension 3115
Mackenzie Chown F204
<http://www.brocku.ca/biochemistry>

Biochemistry describes the structure, organization and function of living systems in molecular terms. The goals of biochemistry are to identify the chemical components and molecules (such as DNA, RNA and protein) of living cells and to determine the function of each component, how components interact, how they are integrated into biological systems, and how these components affect the overall functions of cells and living systems. The Biochemistry Program is a broadly based program designed to provide the student with a thorough understanding of living systems from a molecular perspective. The program is run jointly by the Departments of Biological Sciences and Chemistry.

The Biochemistry Co-op program combines academic and work terms over a five-year period. Students spend two years in an academic setting studying the fundamentals of Biochemistry prior to their first work placement. Successful completion of courses in the core areas of Biochemistry provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Biochemistry Co-op students are assessed an administrative fee for each work term (see the Schedule of Fees).

Eligibility to continue in the Biochemistry Co-op program is based on the student's major and non-major averages. A student with a minimum 70 percent major average and a minimum 60 percent non-major average may continue. A student with a major average lower than 70 percent will not be permitted to continue in the Biochemistry Co-op program, but may continue in the non co-op Biochemistry stream. If a student subsequently raises his/her major average to 70 percent, the

student may be re-admitted only if approved by the Co-op Admissions Committee. For further information, see the Co-op Programs section of the Calendar, and contact the Departments of Biological Sciences or Chemistry.

The Biochemistry Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Program Notes

1. Students preparing for professional studies in health sciences should note that many such programs require completion of a laboratory physics course i.e., one credit from PHYS 1P91, 1P92, 1P93.
2. CHEM 3P40 is strongly recommended for most projects in CHEM 4F90, 4F91 and should be taken in year 3 by students intending to proceed to a year 4 thesis in CHEM.
3. CHEM 4P27 is strongly recommended when offered.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P05 and 1P06 (recommended), or MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- one Humanities context credit or one Social Sciences context credit

Year 2

- BIOL 2F01
- one credit from BIOL 2P92, 2P94, 2P96, 2P98
- CHEM 2P12 or 2P63
- CHEM 2P20, 2P21 and 2P42
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- BCHM 3P01 and 3P02
- BIOL 3P50
- one of BCHM 3P25, BIOL 3P51, 3P91
- CHEM 2P12 or 2P63 (not taken in year 2)
- CHEM 2P32, 3P20 and 3P21
- one-half CHEM credit numbered 2(alpha)90 to 3(alpha)99 (see program note 2)
- one-half elective credit

Year 4

- BIOL 4F90 and 4F91 or CHEM 4F90 and 4F91
- one BCHM credit numbered 3(alpha)90 - 4(alpha)99
- one CHEM credit numbered 3(alpha)90 or above (see program note 3)
- one elective credit

Biochemistry Co-op (Honours only)

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P05 and 1P06, or MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- one Humanities context credit or Social Sciences context credit

Year 2

- BIOL 2F01
- one credit from BIOL 2P92, 2P96 and 2P98
- CHEM 2P12, 2P20, 2P21 and 2P63
- SCIE 0N90
- the Humanities context credit or Social Sciences context credit not taken in year 1

Spring/Summer Sessions:

- BCHM 0N01

Year 3

Fall Term:

- BCHM 3P01
- one of BCHM 3P25, BIOL 3P51, 3P91
- CHEM 2P42 and 3P20
- one-half CHEM credit numbered 2(alpha)90 to 3(alpha)99 (see program note 2)

Winter Term:
•BCHM 0N02

Year 4
Fall Term:
•BCHM 0N03

Winter Term:
•BIOL 3P50
•BCHM 3P02
•CHEM 2P32 and 3P21
•one-half elective credit

Year 5
•BIOL 4F90 and 4F91 or CHEM 4F90 and 4F91
•one BCHM credit numbered 3(alpha)90 - 4(alpha)99
•one CHEM credit numbered 3(alpha)90 or above (see program note 3)
•one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross-listed course
* Indicates a primary offering of a cross-listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

BCHM 3P01

Metabolic Biochemistry

Biochemical energetics, kinetic regulation of metabolic pathways. Carbon metabolism of carbohydrates, lipids and proteins; nitrogen metabolism.

Lectures, seminar, 3 hours per week; labs, 3 hours per week for six weeks.

Restriction: students must have a minimum of 8.0 overall credits.
Prerequisites: BIOL 2F01 and CHEM 2P20 or permission of the instructor.

BCHM 3P02

Protein Structure and Function

Relationships between protein structure and function. Topics include enzyme kinetics, protein engineering, genomics, and proteomics.
Lectures, seminar, simulations, 3 hours per week.
Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

BCHM 3P25

Wine Chemistry

(also offered as OEVI 3P25)

Sugars, acids, nitrogenous compounds in grape juice; antimicrobial and antioxidant activity of sulphur dioxide; must adjustments; biochemistry of alcoholic and malo-lactic fermentation; bitartrate and protein stability; fining agents; wine aging and phenolic oxidation. Laboratories include juice/wine chemical analysis, fermentation and stability tests.

Lectures, lab, 6 hours per week.

Restriction: open to BCHM, BIOL (single or combined), BTEB, BTEC, and OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisites: BIOL 2F01, CHEM 2P20 and 2P42.

Note: materials fee required. Students must be a minimum of 18 years of age. It is strongly recommended that students take BCHM 3P01 prior to or concurrent with OEVI (BCHM) 3P25.

BCHM 4P03

Current Topics in Photobiology

(also offered as BIOL 4P03)

The interaction of light with biological molecules. Effects of ultraviolet radiation, photosynthesis, vision and photoregulation of genes and proteins.

Lectures, seminar, lab, 3 hours per week.

Restriction: open to BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: one-half BCHM credit numbered 3(alpha)00 to 3(alpha)99 or permission of the instructor.

BCHM 4P06

Bioinformatics

(also offered as BIOL 4P06 and BTEC 4P06)
Genome sequencing projects, gene discovery and gene expression. DNA/RNA/Protein sequence data, including mutagenic processes,

molecular evolution and systematics, codon usage, reconstruction of ancient molecules, and prediction of higher-level molecular structure.

Lectures, seminar, 3 hours per week.

Restriction: open to BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Note: BIOL 3P50, 3P80, BCHM 3P02 and MATH 1P98 are recommended

* BCHM 4P08

Topics in Plant and Microbial Biotechnology

(also offered as BIOL 4P08 and BTEC 4P08)
Characterization of biochemical processes and structures. Genetic modification of such processes and structures through molecular manipulation to meet scientific and/or societal needs. Examples include yeast and microbial enzymes or enzyme systems as well as crop proteins and enzymes.

Lectures, seminar, 3 hours per week.

Restriction: open to BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to 4 (honours).

Prerequisite: one of BCHM 3P01, 3P02, BIOL 3P50, CHEM 3P93 (3P63) or permission of the instructor

BCHM 4P11

Theory of Techniques in Biochemistry and Molecular Biology

(also offered as BIOL 4P11 and BTEC 4P11)
Theory behind basic and some advanced techniques in nucleic acid and protein manipulations and analysis.

Lectures/seminar, 3 hours per week.

Restriction: open to BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 2F01.

BCHM 4P21

Mutagenesis in Disease and Biotechnology

(also offered as BIOL 4P21 and BTEC 4P21)
Exploration of the various mechanisms of mutagenesis of the genetic material, how they contribute to disease, and how they can be adapted to produce new biomolecules.

Lectures, seminar, 3 hours per week.

Restriction: open to BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BTEB, BMED, BTEC, NEUR, OEVI majors and BIOL minors until

date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).
Prerequisite: BIOL 3P50 or BCHM 3P02.

BCHM 4P67

Biophysical Techniques

(also offered as BTEC 4P67 and CHEM 4P67)

Modern instrumental methods of biotechnology emphasizing understanding theory. Development of newer technologies which utilize biological components. Topics include optical, X-ray and NMR techniques, separation techniques, hybridization assays, immunoassays, biosensors and mass spectral techniques; membrane chemistry.

Lectures, seminar, 3 hours per week.

Prerequisites: CHEM 2P21 and 2P63 or permission of the instructor.

CO-OP COURSES

BCHM 0N01

Work Placement I

First Co-op work placement (4 months) with an approved employer.

Restriction: open to BCHM Co-op students.

BCHM 0N02

Work Placement II

Second Co-op work placement (4 months) with an approved employer.

Restriction: open to BCHM Co-op students.

BCHM 0N03

Work Placement III

Third Co-op work placement (4 months) with an approved employer.

Restriction: open to BCHM Co-op students.

BCHM 0N04

Work Placement IV

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to BCHM Co-op students.

BCHM 0N05

Work Placement V

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to BCHM Co-op students.

Biological Sciences

Chair

Gary Pickering
TBA (as of July 1, 2009)

Professors Emeriti

Alan Bown, Arthur H. Houston, Ralph D. Morris, Peter Nicholls, R. Peter Rand, Donald J. Ursino

Professors

Michael J. Bidochka, Douglas H. Bruce, Robert L. Carlone, Alan J. Castle, Vincenzo De Luca, Yousef Haj-Ahmad, Fiona F. Hunter, Cheryl McCormick, A. Joffe Mercier, Gary Pickering, Andrew G. Reynolds, Liette Vasseur

Associate Professors

Stefan Brudzynski, Charles Després, Debra L. Inglis, Ping Liang, Daniel McCarthy, John Middleton, Sandra Peters, Miriam H. Richards, Adonis Skandalis, Gaynor Spencer, Jeff Stuart, Glenn Tattersall, Litsa Tsiani, Hui Di Wang

Assistant Professors

Paul LeBlanc

Adjunct Professors

Ralph Brown, Katrina Brudzynski, Wangxue Chen, Jeannine Delwiche, Helen Fisher, Ken Giles, Wendy McFadden-Smith, Arthur Retnakaran, Dan Rinker, Antonet Svircev

Laboratory Instructors

John Ciolfi, Jacinta Dano, Diane Eaton, Ellen Maissan, George Melvin

Administrative Assistant

Caroline Barrow

905-688-5550, extension 3388
Mackenzie Chown MC F234
<http://www.brocku.ca/biology>

General Information

The biological sciences, or the life sciences, encompass a broad spectrum of subjects from molecular biology to ecology as well as such disciplines as biochemistry, biophysics, genetics and physiology. The program is designed to provide the student with a broad base in modern biological thought, to fulfill the basic requirements for admission to professional and advanced degree studies and to prepare graduates for careers in the biological sciences and related fields. Although the undergraduate program provides students with flexibility in

selecting the areas of biology most compatible with their interests and skills, it also ensures that students develop an overview of the major concepts and problems of modern biology as expressed at all levels of biological organization.

The objectives of the undergraduate program are realized through a group of core courses in years 1 and 2, each with an associated laboratory. Laboratory classes stress the investigative approach to experimental studies. Students move progressively from structured laboratory studies to increasingly independent investigations and in the honours year undertake individual research projects. Working from the core program, students may follow a variety of curriculum patterns to satisfy their interests.

Students must consult faculty advisers when planning years 3 and 4 of the BSc (Honours) and BSc with Major programs or year 3 of the BSc (Pass) program.

The honours year provides students with the opportunity for either broadening their understanding of the biological sciences or for increased specialization. Ideally, the honours program provides an opportunity for the synthesis of material presented in earlier years and also provides an opportunity for independent investigative work. Each honours candidate undertakes a major research study under the direct supervision of a faculty member. Students must apply to the Department of Biological Sciences in order to be admitted to year 4 (honours).

Program Notes

1. MATH 1P05 may be substituted for MATH 1P97.
2. Students preparing for professional studies in health sciences should note that many such programs require completion of a laboratory physics course i.e., one credit from PHYS 1P91, 1P92 and 1P93.
3. One credit from PHYS 1P21, 1P22, 1P23, 1P91 is strongly recommended for students who do not have 4U Physics.
4. The third ancillary science credit must be numbered 1(alpha)00 to 2(alpha)99 and offered by a department in the Faculty of Mathematics and Science other than Biological Sciences, excluding ASTR 1P01, 1P02, CHEM 1P00, ERSC 1F90, 1P92, SCIE 1P50, 1P51, BTEC courses and MATH courses numbered 1(alpha)00 to 1(alpha)99. An organic chemistry

course numbered 2(alpha)00 to 2(alpha)99 is recommended.

5. BIOL 2P95 does not carry major credit for the BSc (Honours) degree. Students who submit this for credit toward the BSc Pass degree must replace it with accepted BIOL credits if they subsequently enter the Honours program.

6. For combined BIOL/CHEM majors, CHEM 3P40 is strongly recommended for most projects in CHEM 4F90, 4F91 and should be taken in year 3 by students intending to proceed to a year 4 thesis in CHEM.

7. For combined BIOL/CHEM majors, honours students who elect BIOL 4F90, 4F91 and who have taken only the minimum five credits in CHEM in years 1 through 3 may experience difficulty in obtaining the necessary two additional CHEM credits in year 4.

8. For combined BIOL/GEOG majors one of BIOL 4F90 and 4F91, BIOL 4F92 and one BIOL credit numbered 3(alpha)90 or above, GEOG 4F90 is required.

9. For combined BIOL/PSYC majors one of BIOL 4F90 and 4F91, BIOL 4F92, PSYC 4F90, 4F91 is required.

10. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- BIOL 1F90
- one credit from APCO 1P00, 1P01, 1P93, ERSC 1F01, PHYS 1P21 or 1P91 (recommended), one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program notes 2 and 3)
- CHEM 1F92
- MATH 1P97 and 1P98 (see program note 1)
- one Humanities context credit or one Social Sciences context credit

Year 2

- BIOL 2F01, 2P05 and 2Q04
- one credit from BIOL 2P92, 2P94, 2P96, 2P98
- third ancillary science credit (see program note 4)
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- Three BIOL or BCHM credits numbered 2(*alpha*)90 or above (see program notes 5 and 6)
- two elective credits

Year 4

- BIOL 4F90 and 4F91, or BIOL 4F92 and one BIOL credit numbered 3(*alpha*)90 or above
- one BIOL credit numbered 2(*alpha*)90 or above
- one BIOL credit numbered 3(*alpha*)90 or above
- one elective credit

BSc with Major Program

Year 1

- BIOL 1F90
- CHEM 1F92
- one credit from APCO 1P00, 1P01, 1P93, ERSC 1F01, PHYS 1P21 or 1P91 (recommended), one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program notes 2 and 3)
- MATH 1P97 and 1P98 (see program note 1)
- one Humanities context credit or one Social Sciences context credit

Year 2

- BIOL 2F01, 2P05 and 2Q04
- one credit from BIOL 2P92, 2P94, 2P96, 2P98
- third ancillary science credit (see program note 4)
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- Three BIOL or BCHM credits numbered 2(*alpha*)90 or above (see program notes 5 and 6)
- two elective credits

Year 4

- One BIOL credit numbered 2(*alpha*)90 or above
- one and one-half BIOL credits numbered 3(*alpha*)90 to 3(*alpha*)99
- one and one-half BIOL credits numbered 3(*alpha*)90 or above
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Concurrent BSc/BEd

The Department of Biological Sciences and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEEd programs. The Biological Sciences BSc (Honours)/BEEd programs combines the BSc Honours program or BSc Integrated Studies Honours program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10.) Refer to the Education - Concurrent BSc (Honours)/BEEd (Intermediate/Senior) or Education - Concurrent BSc Integrated Studies (Honours)/BEEd (Junior/Intermediate) program listings for further information.

Combined Major Program

Biological Sciences and Chemistry

Honours

Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P05 and 1P06, or MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended) (see program notes 2 and 3)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended) (see program notes 2 and 3)
- one Humanities context credit or Social Sciences context credit

Year 2

- BIOL 2F01
- one credit from BIOL 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- CHEM 2P12 or 2P63
- CHEM 2P20, 2P21 and 2P42
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- One BIOL credit numbered 2(*alpha*)90 to 3(*alpha*)99 (BIOL 3P50 recommended)
- BCHM 3P01 and 3P02

- CHEM 2P12 or 2P63 (not taken in year 2)
- CHEM 2P32
- one and one-half credits from CHEM 3P20, 3P21, 3P30, 3P31, 3P40, 3P41, 3P51, 3P53, 3P60 (see program notes 4 and 6)
- one-half elective credit

Year 4

- BIOL 4F90 and 4F91 or BIOL 4F92 and one
- BIOL credit numbered 3(*alpha*)90 or above, or CHEM 4F90 and 4F91 (see program note 7)
- one credit from the Department of Biological Sciences in the areas of biochemistry, biophysics or molecular biology or one half credit from
- one of those areas plus BCHM 3P02 or BIOL 3P50
- one CHEM credit numbered 2(*alpha*)90 or above
- one elective credit (see program note 10)

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Biological Sciences and Geography

Honours

Year 1

- BIOL 1F90
- GEOG 1F91
- MATH 1P97 and 1P98
- one Humanities context credit
- one Social Sciences context credit (GEOG 1F90 is strongly recommended)

Year 2

- BIOL 2P05 and 2Q04
- GEOG 2P11
- one credit from BIOL 2P92, 2P94, 2P96, 2P98
- one and one-half credits from GEOG 2P04, 2P05, 2P07, 2P09, 2P13
- one elective credit

Year 3

- Two BIOL credits
- GEOG 3P56
- one GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group B
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group B or C (see Geography department)
- one elective credit

Year 4

- Two BIOL credits (see program note 8)
- two GEOG credits numbered 3(*alpha*)90 or above from group B or C (see Geography department; see program note 8)
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Biological Sciences and Mathematics

Honours

Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01, 1P02, 1P40 and 1P98
- one Humanities context credit or Social Sciences context credit

Year 2

- Two credits from BIOL 2F01, 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- MATH 1P12, 2P03, 2P81 and 2P82
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- Two BIOL credits numbered 2(alpha)90 to 3(alpha)99
- MATH 3P81 and 3P82
- one MATH credit
- one elective credit

Year 4

- Two BIOL credits numbered 2(alpha)90 or above (see program note 10)
- MATH 2F40, 4P81 and 4P82
- one elective credit (see program note 10)

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Biological Sciences and Psychology

Entrance to the BIOL/PSYC combined Honours program requires application to the Psychology Department.

Honours

Year 1

- BIOL 1F90
- CHEM 1F92
- PSYC 1F90
- one Humanities context credit
- one elective credit (MATH 1F92 or 1P97 and 1P98 recommended)

Year 2

- Two credits from BIOL 2F01, 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- PSYC 2F23

- one PSYC credit numbered 2(alpha)00 or above
- one elective credit

Year 3

- Two BIOL credits numbered 2(alpha)90 to 3(alpha)99
- PSYC 3P39
- one and one-half PSYC credits numbered 3(alpha)00 or above that must include PSYC 3F40 or 3P30
- one elective credit

Year 4

- Two BIOL credits (see program note 9)
- PSYC 4P92
- one and one-half PSYC credit numbered 3(alpha)90 or above (see program note 9)
- one elective credit

Pass

Year 1

- BIOL 1F90
- CHEM 1F92
- PSYC 1F90
- one Humanities context credit
- one elective credit (MATH 1F92 or MATH 1P97 and 1P98 recommended)

Year 2

- Two credits from BIOL 2F01, 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- PSYC 2F23
- one PSYC credit numbered 2(alpha)00 or above
- one elective credit

Year 3

- Two BIOL credits numbered 2(alpha)90 to 3(alpha)99
- two PSYC credits numbered 3(alpha)00 or above
- one elective credit

Biological Sciences and Earth Sciences

Consult the Earth Sciences entry for a listing of program requirements.

Biological Sciences and Physics

Consult the Physics entry for a listing of program requirements.

Minor in Biological Sciences

Students in other disciplines can obtain a minor in Biological Sciences within their degree program by completing the following courses with a minimum 60 percent overall average:

- Two BIOL credits numbered 2(alpha)00 or above
- two BIOL credits numbered 2(alpha)90 or above

Graduate (MSc, PhD) Program

The Department of Biological Sciences offers opportunities for graduate study leading to a MSc or PhD degree. Graduate programs emphasize independent research by students in a wide variety of biological fields and disciplines reflecting the research interests of individual faculty. For further information, including faculty interests, see the current Graduate Calendar or the Department of Biological Sciences' website.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross-listed course

* Indicates a primary offering of a cross-listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

BIOL 1F25

Biology: A Human Perspective

For non-science majors: contemporary issues of human concern; genetics and biology of cancer and obesity; learning, memory and addiction.

Lectures, 2 hours per week; lab, alternating weeks, 2 hours per week during the Fall Term.

Note: secondary school biology is not a prerequisite for this course. In spring session course is offered on-line.

BIOL 1F90

Concepts in Biology

Topics essential to contemporary biology, including molecular biology, biological energy conversion, how plants and animals adapt, genetics and the evolutionary process.

Lectures, 3 hours per week; lab/workshop,

alternating weeks, 3 hours per week.

Restriction: open to BIOL (single or combined), BCHM, BKIN, BMED, BPHY, BSc(KIN), BSc/BEEd, BTEC, CHLH, CHSC, ERSC (single or combined), HEAR, HLSC, NEUR, NURS, OEVI, SPLS majors and BIOL minors until date specified in registration guide. Note: 4U/M biology recommended. MATH 1P01 may be substituted for MATH 1P97. BIOL 1F90 is a prerequisite for most courses in the department.

BIOL 2F01

Principles of Molecular and Cellular Biology
Cellular processes and their relationship to cellular structure emphasizing the structure and function of proteins, membranes, cell organelles and the expression of genetic information.

Lectures, seminar, 3 hours per week; lab, 3 hours per week during the Winter Term.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisites: BIOL 1F90 and CHEM 1F92.

BIOL 2P05

Principles of Evolutionary and Behavioural Ecology

Phenotypic and genotypic variation among individuals and related population- and species-level patterns. Population genetics, natural selection, behavioural responses, phenotypic plasticity and life history strategies.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

Note: one-half year 1 credit in MATH strongly recommended.

BIOL 2P92

Principles of Zoology

Introduction to animal diversity and the basic body plans of phyla within the animal kingdom. Relationships of structures to such functions as movement, feeding, respiration and development. Evolutionary series illustrated where appropriate.

Lectures, lab, 6 hours per week.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

BIOL 2P93

Introduction to Botany

Principles of plant taxonomy, morphology, reproduction and development. Strategies employed by plants in the resolution of habitat limitations and range expansion.

Lectures, lab, 6 hours per week; plus fieldwork.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

Note: materials/field trips fee required.

BIOL 2P94

Plant Biology: Growth and Development

Biochemistry and cell biology of plant cell structure, organogenesis and plant life cycle. Focusing on angiosperm adaptations to the biotic and abiotic environment.

Lectures, lab/seminar, 6 hours per week.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisites: BIOL 1F90 and CHEM 1F92 or permission of the instructor.

BIOL 2P95

Bioethics

(also offered as PHIL 2P95)

Value conflicts and moral dilemmas in biology and medicine. Emphasis on specific case studies in reproductive interventions, medical experimentation, concepts of "health" and "disease", modification of behaviour, lifestyle choices, allocation of scarce or expensive medical resources, and death and dying.

Lectures, seminar, 3 hours per week.

Prerequisite: one BIOL or PHIL credit or permission of the instructor.

Note: may count as an elective, but not as a major credit in an Honours BIOL (single or combined) program.

BIOL 2P96

Biology of Fungi

Structure, development, metabolism, reproduction and evolution of fungi, emphasizing the importance of fungi, in particular yeasts, to industrial processes.

Lectures, 3 hours per week; lab, 3 hours per week for six weeks.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

BIOL 2P97

Human Physiology

Normal human function with specific reference to circulatory, respiratory and excretory activities and their regulation as well as their more common genetic, environmental and lifestyle pathologies.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

BIOL 2P98

Principles of Microbiology

Diversity, evolution, physiology and genetics of micro-organisms with emphasis on applied, medical and environmental microbiology.

Lectures, 3 hours per week; lab, 3 hours alternate weeks.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

BIOL 2Q04

Principles of Population and Community Ecology

Ecological processes at the population, community and ecosystem levels of biological organization; mathematical models of population growth, predation and competition; factors influencing community structure, biodiversity and energy flow through ecosystems.

Lectures, 3 hours per week; lab, 3 hours per week.

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

Note: one-half year 1 credit in MATH strongly recommended.

BIOL 3P28

Developmental Biology

Principles of vertebrate and invertebrate development. Topics include life cycles and the evolution of developmental patterns; the genetic core of development; differential gene expression; cell-cell communication; fertilization; early development and axial specification in selected vertebrates and invertebrates.

Lectures, 3 hours per week; lab, 3 hours per week for 6 weeks.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BTEB, BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

BIOL 3P30

Cell Physiology

Molecular physiology of non-excitabile membranes, mechanisms of cellular response and adaptation, control and regulation of cell metabolism; molecular basis of cellular dysfunction in human aging and disease.

Lectures, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BMED, NEUR majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

* BIOL 3P34

Neurobiology

(also offered as NEUR 3P34)

Structure and function of nerve cells: Electrical properties of neurons, synaptic function and transmitters, neural plasticity and cellular basis of behaviour.

Lectures, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED

(Intermediate/Senior), NEUR majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.
Prerequisite: BIOL 2F01.

BIOL 3P35

Comparative Animal Physiology

Examination of how animals work, survive and regulate physiological processes emphasizing animal energetics. Homeostatic mechanisms of respiration, circulation, osmoregulation, thermoregulation, locomotion and metabolism in vertebrates with comparison to selected invertebrates.

Lectures, lab, 6 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2F01 and 2P92.

* BIOL 3P43

Applied Microbiology

(also offered as BTEC 3P43)

Ecology of micro-organisms and special adaptations that permit their use in biotechnology and applied microbiology.

Lectures, lab, 6 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2P98 or permission of the instructor.

* BIOL 3P50

Molecular Genetics

(also offered as BTEC 3P50)

Topics include the genetic code and information flow from nucleic acids to proteins, RNA and protein synthesis; prokaryotic and eukaryotic chromosomes; gene organization; transcription, RNA processing; codon usage; enhancer and transposons.

Lectures, 3 hours per week; lab, 3 hours per week for 6 weeks.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or permission of the instructor.

* BIOL 3P51

Genetics: Transmission, Development, Population

(also offered as CHSC 3P51)

Concepts of classical genetics including genetic mapping, extra-nuclear inheritance, polyploidy, genetics and development, evolutionary genetics.

Lectures, 3 hours per week; lab, 3 hours per week for 6 weeks.

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or permission of the instructor.

BIOL 3P60

Animal Behaviour

Social context of behaviour and natural selection: the evolution and significance of visual, auditory and olfactory communication; spacing behaviour and the evolution of diversity in spacing systems; mating systems and sexual selection; development of species-typical behaviour; the development and significance of periodic behaviour patterns including endogenous rhythms orientation and navigation.

Lectures, 3 hours per week; lab, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2P05 and 2Q04.

BIOL 3P64

Introductory Insect Biology

Field and laboratory exercises and lectures covering morphology, physiology, evolution, ecology, social behaviour and harmful and beneficial aspects of the insects.

Lectures, 2 hours per week; lab, 3 hours per week; plus fieldwork.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 1F90 or permission of instructor.

BIOL 3P71

Ontario Universities Field Biology Course

Inter-university selections from the offerings of the Ontario Universities Program in Field Biology.

Restriction: students must have a minimum of 8.0 overall credits and permission of the course co-ordinator.

Prerequisites: BIOL 2P05 and 2Q04.

Note: takes place at different field sites from May through August for 1 or 2 weeks durations. Registrants must submit an application with the course co-ordinator by the end of January. See course co-ordinator for application. Students are expected to pay their own expenses.

BIOL 3P72

Ontario Universities Field Ecology Course

Further field studies for students who have completed BIOL 3P71.

Restriction: students must have a minimum of 8.0 overall credits and permission of the course co-ordinator.

Prerequisites: BIOL 2P05 and 2Q04.

Note: takes place at different field sites from May through August for 1 or 2 weeks durations. Registrants must submit an application with the course co-ordinator by the end of January. See course co-ordinator for application. Students are expected to pay their own expenses.

BIOL 3P80

Evolution

The idea of evolution and its development; scientific method and the past; classical, modern pre-Darwinian and Darwinian concepts; the history of the earth and the fossil record; biogeographical patterns; adaptation, natural selection and the origin of species; molecular evolution; evolution of specific taxonomic groups including humans.

Lectures, 2 hours per week; seminar, 1 hour per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2P05 and 2Q04; one of BIOL 2P92, (2P93), 2P96, 2P98.

BIOL 3P85

Ecology of a Changing Planet

(also offered as ERSC 3P85 and GEOG 3P85)

Impact of environmental change and human activity on ecosystems. Topics include climate change and global warming, habitat fragmentation, extinction, invasive species, conservation biology and the management of ecological integrity.

Lectures, lab, 5 hours per week.

Prerequisite: one of BIOL 2P05, 2Q04, ERSC 2P09.

* BIOL 3P90

Investigative Neurobiology
(also offered as NEUR 3P90)

Methods used in neurobiology and neurophysiology. Electro-physiological techniques, including intracellular and extracellular recording from nerve cells and muscle, and on theory and techniques for electro-physiological data acquisition. Other topics include intracellular staining, immunocytochemistry and assay procedures.

Lectures, 2 hours per week; lab, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or PSYC 2P36 and 2P37 (2F36).

Note: BIOL 3P34 is strongly recommended for students who have not taken PSYC 2P36 and 2P37 (2F36)

BIOL 3P91

Plant Physiology: Metabolic and Biophysical Processes

Metabolism of carbon and nitrogen compounds; photosynthetic and respiratory processes; mineral nutrition; water relations; gas exchange and transport processes.

Lectures, lab, 6 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2F01 and 2P94 or permission of the instructor.

BIOL 3P92

Advanced Developmental Biology

Post-embryonic development, metamorphosis, regeneration and aging, plant development, medical implications of developmental biology, environmental regulation of development, and developmental mechanisms of evolutionary change.

Lectures, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 3P28.

BIOL 3P96

Biometrics

Introduction to the principles of experimental design and data analysis. Emphasis on practice

in analyzing and interpreting biological data from a variety of different fields (e.g. molecular biology, physiology, neurobiology, ecology).

Lectures, 2 hours per week; lab, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: MATH 1P98; one of BIOL 2F01, 2P05, 2Q04.

Note: recommended for students planning to take BIOL 4F90 and 4F91.

BIOL 3P97

Molecular Ecology

Review of population genetics and the use of molecular markers; the application of molecular genetic data to issues and problems in evolutionary biology, population genetics, and animal behaviour, including phylogenetics, kinship and population subdivision.

Lectures, 2 hours per week; computer labs, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR and OEVI majors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2P05 and one-half MATH credit.

Note: It is strongly recommended that students take BIOL 3P80 or 3P51 before registering in this course.

BIOL 3P98

Wine Microbiology

(also offered as OEVI 3P98)

Identification and enumeration of indigenous micro-organisms in grape must. Alcoholic fermentation; metabolism of nitrogen compounds and organic acids; production of sulphur compounds; killer yeasts; malolactic fermentation; wine spoilage micro-organisms; genetic improvement of wine yeasts.

Lectures, lab, 6 hours per week.

Restriction: open to BCHM, BIOL (single or combined) BTEC, OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisites: OEVI 3P25, BCHM 3P01, BIOL 2F01 and 2P98.

Note: students must be a minimum of 18 years of age. It is strongly recommended that students take BIOL 3P50 prior to or concurrent with OEVI (BIOL) 3P98.

BIOL 4F90

Honours Thesis

Each student will undertake a limited research project involving field or laboratory study under faculty supervision.

Restriction: open to BCHM and BIOL (single or combined) majors with approval to year 4 (honours), a minimum 75 percent major average and permission of the Chair.

Note: to be taken in conjunction with BIOL 4F91. Students electing to pursue studies on non-laboratory ecological projects will be permitted to initiate their programs during the summer preceding registration in year 4, but may not include data or observations obtained as a consequence of participation in field courses such as BIOL 3P71 or 3P72. Submission and oral defence of the thesis is required.

BIOL 4F91

Literature Research and Seminar

Each student will undertake a detailed study of the scientific literature relevant to the topic of the honours thesis.

Restriction: open to BCHM and BIOL (single or combined) majors with approval to year 4 (honours), a minimum 75 percent major average and permission of the Chair.

Note: to be taken in conjunction with BIOL 4F90. Review will be included in the thesis and will be presented as a seminar.

BIOL 4F92

Library Research Essays

Each student will be required to carry out two detailed studies of the scientific literature under faculty supervision.

Restriction: open to BCHM, BIOL (single or combined) and BTEC majors with approval to year 4 (honours) and permission of the Coordinator.

Note: for students not registered for BIOL 4F90 and BIOL 4F91. Results of the studies will be presented in major essays and formal seminars. One research topic is to be completed each term.

BIOL 4P03

Current Topics in Photobiology

(also offered as BCHM 4P03)

The interaction of light with biological molecules. Effects of ultraviolet radiation, photosynthesis, vision and photoregulation of genes and proteins.

Lectures, seminar, lab, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: one-half BCHM credit numbered 3(alpha)00 to 3(alpha)99 or permission of the instructor.

* BIOL 4P06

Bioinformatics

(also offered as BCHM 4P06 and BTEC 4P06)
Genome sequencing projects, gene discovery and gene expression. DNA/RNA/Protein sequence data, including mutagenic processes, molecular evolution and systematics, codon usage, reconstruction of ancient molecules, and prediction of higher-level molecular structure.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Note: BIOL 3P50, 3P80, BCHM 3P02 and MATH 1P98 are recommended.

BIOL 4P08

Topics in Plant and Microbial Biotechnology
(also offered as BCHM 4P08 and BTEC 4P08)
Characterization of biochemical processes and structures. Genetic modification of such processes and structures through molecular manipulation to meet scientific and/or societal needs. Examples include yeast and microbial enzymes or enzyme systems as well as crop proteins and enzymes.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: one of BCHM 3P01, 3P02, BIOL 3P50, CHEM 3P93 (3P63) or permission of the instructor.

BIOL 4P10

Microbial Pathogenesis

A molecular approach to microbial diseases in a variety of hosts focusing on human diseases. Topics include animal models for diseases, molecular diagnostics, identifying virulence factors and population genetics of pathogenic microbes.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: BIOL 2P98.

* BIOL 4P11

Theory of Techniques in Biochemistry and Molecular Biology

(also offered as BCHM 4P11 and BTEC 4P11)
Theory behind basic and some advanced

techniques in nucleic acid and protein manipulations and analysis.

Lectures/seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overalls credits or approval to year 4 (honours). Prerequisite: BIOL 2F01.

BIOL 4P13

Bioenergetics

Exploration of the molecular basis of cellular energy transduction. Topics may include biogenesis of mitochondria, assembly and function of respiratory complexes, mitochondrial signaling and apoptosis, and methodological approaches to studying cellular energetics.
Seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to 4 (honours). Prerequisite: BIOL 3P30 or BCHM 3P01.

* BIOL 4P21

Mutagenesis in Disease and Biotechnology

(also offered as BCHM 4P21 and BTEC 4P21)
Exploration of the various mechanisms of mutagenesis of the genetic material, how they contribute to disease, and how they can be adapted to produce new biomolecules.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: BIOL 3P50 or BCHM 3P02.

BIOL 4P28

Developmental Neurobiology

Principles of neural development. Topics include cell lineage and early determinative events, trophic functions, growth and plasticity, synaptogenesis and gene expression in the establishment of the nervous system.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: BIOL 3P28 or 3P34.

BIOL 4P29

Topics in Animal Physiology

Recent and/or controversial research in respiratory, thermoregulatory, and cardiovascular physiology and their neural control. Topics may vary from year to year.
Seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: BIOL 3P35.

BIOL 4P30

Grape Pest Management

(also offered as OEVI 4P30)

Biology and dynamics of grapevine pest activity - insects, diseases, weeds, nematodes, vertebrates. Integrated pest management approach looking at all aspects of control chemical, biological, cultural. Application techniques, pest identification and monitoring.
Lectures, lab, 6 hours per week; plus fieldwork.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BIOL, BTEC, OEVI majors and OEVI certificate students or permission of the instructor. Prerequisite: OEVI 2P99. Note: field trip fee required.

BIOL 4P34

Systems Neurophysiology

Neuronal networks and integrative mechanisms in the nervous system. Topics may include the visual system, rhythm generators and motor function, learning and memory.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: BIOL 3P34 or permission of the instructor.

* BIOL 4P51

Molecular Virology

(also offered as BTEC 4P51)

Bacterial and animal viruses. Topics include biochemical properties, virus-host interaction, productive cycle, effect of virus on host cell and organism, viral vectors and gene therapy, recombinant viral vaccines and origin of virus.
Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/BED (Intermediate/Senior), BCHM, BMED,

BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: BIOL 3P50 or permission of the instructor.

BIOL 4P53

Immunology

Humoral and cellular immunity; structure and synthesis of immunoglobulins; origin of antibody diversity; transplantation immunity and the importance of the major histocompatibility complex; auto-immunity and allergic reactions.

Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P50 or BCHM 3P01.

BIOL 4P56

Genes and Behaviour

Genetic, developmental and environmental influences on the behaviour of invertebrates and vertebrates. Single versus locus effects and the inheritance of quantitative behavioural traits. Analyses of gene expression and genetic pathways influencing behaviour in model animals.

Seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: one credit from BIOL 3P51, 3P60, 3P80, 3P97.

* BIOL 4P57

Bacterial Genetics

(also offered as BTEC 4P57)

Molecular and transmission genetics of bacteria. Bacterial genetics from early descriptions of transformation and transduction to current developments in molecular genetics.

Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisites: BIOL 2P98 and 3P50 or permission of the instructor.

* BIOL 4P58

Fungal Genetics

(also offered as BTEC 4P58)

Transmission and molecular genetics of fungi. Recent advances in gene manipulation and the contribution of studies on these organisms to general genetic principles.

Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEB, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours). Prerequisite: one of BIOL 2P96, 3P50, 3P51 or permission of the instructor.

BIOL 4P61

Natural Selection and Adaptation

Topics may include fitness, selection in natural populations, life history evolution, adaptive traits, forces opposing natural selection, population structure and natural selection. Emphasis on empirical studies in current literature.

Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P60 or 3P80.

Note: BIOL 3P80 is strongly recommended.

BIOL 4P64

Insect Behaviour

Selected topics in the field of insect behaviour including: programming and integration of behaviour orientation and dispersal, feeding and plant-herbivore co-evolution, chemical, visual and acoustical communication, defensive behaviour, reproductive behaviour and the eusocial insects.

Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: one of BIOL 3P60, 3P64, 3P80 or permission of the instructor.

BIOL 4P84

Physiology of Excitable Cells

Neurons, muscle and/or neurosecretory cells at the cellular and subcellular levels. Topics include ion channel activity, patch clamp recording, intracellular messenger systems, mechanisms of neurosecretion and neural

plasticity.

Lectures, seminar, 3 hours per week.

Restriction: open to BIOL (single or combined), BIOL (Honours)/ BED (Intermediate/Senior), BCHM, BMED, BTEC, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P34 or permission of the instructor.

Biomedical Sciences

This program is offered through the Departments of Biological Sciences and Community Health Sciences

Co-ordinators

Gary Pickering TBA (as of July 1, 2009), Chair,
Department of Biological Sciences
Anthony F. Bogaert, Community Health
Sciences and Psychology

General Information

Administrative Assistants

Caroline Barrow

905-688-5550, extension 3388

Mackenzie Chown F234

<http://www.brocku.ca/biology/>

Joanne Boucher

905-688-5550, extension 4228

Academic South 329

<http://www.brocku.ca/communhealthscil>

The main focus of the Biomedical Sciences program is on the molecular basis of human health. It draws on the expertise of faculty of Community Health Sciences in the medical aspects of human health and of faculty in Biological Sciences in the theory, methods, and applications of molecular biology. This program will prepare students for careers in biomedical research, teaching or professional programs in health sciences.

Program Notes

1. To proceed to year 2, students must achieve a minimum grade of 60 percent in BIOL 1F90, CHSC 1F90 and have submitted a declaration to major form.
2. Students preparing for professional studies in health sciences should note that some programs require completion of a laboratory physics course (one credit from PHYS 1P91, 1P92, 1P93). An understanding of basic physics is also beneficial to students in specific BIOL courses.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three

credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- BIOL 1F90
- CHEM 1F92
- CHSC 1F90
- MATH 1P97 and 1P98
- one Humanities context credit

Year 2

- BIOL 2F01, 2P97 and 2P98
- CHEM 2P20 and 2P21
- CHSC 2F95, 2P07 and 2P09

Year 3

- BCHM 3P01
- one and one-half credits from BCHM 3P02, BIOL 3P28, 3P30, 3P50, 3P51, PHYS 2P02
- CHSC 3P07, 3P09 and 3P19
- one-half CHSC credit numbered 2(alpha)90 or above
- one elective credit

Year 4

Thesis Option:

- One credit from BCHM 3P02, 4P06, 4P21, BIOL 3P28, 3P30, 3P50, 3P51, 4P11, 4P28, 4P51, 4P53, 4P57, PHYS 2P02
- CHSC 4F90 and one CHSC or BIOL credit numbered 2(alpha)90 or above, or BIOL 4F90 and 4F91
- CHSC 4P95 and 4P99
- one elective credit

Library Research Option:

- One credit from BCHM 3P02, 4P06, 4P09, 4P21, BIOL 3P28, 3P50, 3P51, 4P11, 4P28, 4P51, 4P53, 4P57, PHYS 2P02
 - BIOL 4F92
 - one BIOL or CHSC credit numbered 3(alpha)90 or above
 - CHSC 4P95 and 4P99
 - one elective credit
-

Description of Courses

See relevant calendar entry for course descriptions.

Biophysics

This program is offered through the Department of Physics

Co-ordinator

Thad A. Harroun

Advisers

Shyamal K. Bose, Department of Physics
Heather L. Gordon, Department of Chemistry

General Information

Administrative Assistant

Elizabeth Horvath

905-688-5550, extension 3412
Mackenzie Chown B210
<http://www.physics.brocku.ca/>

Biophysics is the physics of life, of all living systems and their interaction with the surroundings, natural and artificial. It is a relatively new, but rapidly advancing field encompassing a wide variety of areas in natural and life sciences and uses all methods of scientific inquiry: theory, experiment and large scale computer simulation to understand living systems at the molecular level. Biophysics also forms the basis of many aspects of Medical Physics, another rapidly developing field in much demand at the current time. Brock's biophysics program will provide the students with a superb learning environment and exciting research opportunities. Extended research opportunities are available through Brock's participation in the Interdepartmental Biophysics Group (BIG) based at the University of Guelph.

The interdisciplinary nature of the Biophysics program offers an opportunity to modify the sequence of courses to be taken, to reflect better the interests of the individual students. However, this places a greater onus on the students to make sure that the prerequisites are satisfied, and that a sufficient number of credits at each level is included. Biophysics students are strongly encouraged to contact the Co-ordinator no later than year 2 of their studies, to ensure that their chosen sequence of courses satisfies all academic constraints.

In view of the vastness of the field of Biophysics and the enormous diversity among its various subfields, the program offers a high degree of flexibility to its students at the 4th year level in terms of choice of BIOL, BTEC, CHEM, PEKN, PHYS and PSYC/NEUR courses.

Eligibility to continue in the program is based on the student's major average. All courses required for the program, excluding the electives, will be considered for the major average.

Biophysics is an Honours only program. If a student's major average falls below the required 70 percent average by year three, they are advised to seek a three-year B.Sc. Degree in General Studies. Students should note that such a degree requires a minimum of five credits in one subject.

Program Notes

1. Students are encouraged to include CHEM 3P40, 4P17, 4P18, MATH 2F05 and PHYS 3P92 among their electives.

2. BPHY 4F90 and 4F91 projects should be approved by the Co-ordinator. Projects under the supervision of faculty members outside the Faculty of Mathematics and Science are possible, but may require co-supervision by a member from the Faculty of Mathematics and Science, in addition to being approved by the Co-ordinator. BPHY 4F90/4F91 may, under special circumstances, be started in the summer months following year 3.

3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- PHYS 1P91
- PHYS 1P92 or 1P93 (recommended)
- one Humanities context credit or one Social Sciences context credit

Year 2

- BIOL 2F01
- one of BIOL 2P92, 2P94, 2P97, 2P98
- CHEM 2P20
- MATH 1P12
- PHYS 2P02, 2P50 and 2P51

- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- BIOL 3P34
- CHEM 2P63
- PHYS 2P31 or 2P32
- PHYS 3P41, 3P70 and 3P91
- one credit from CHEM 2P12, BIOL 3P35, 3P50, 3P90, 3P91
- one elective credit (see program note 1)

Year 4

- BPHY 4F90 and 4F91 or two credits from BIOL 3(alpha)90 or above, CHEM 3(alpha)90 or above, PEKN 4P10, PHYS 3P36, PHYS 3(alpha)90 or above, PSYC 3F81 (see program notes 1 and 2)
- PHYS 3P02 and 3P35
- one credit from BIOL 4P03, 4P34, 4P84, CHEM 4P67
- one elective credit (see program note 1)

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

BPHY 4F90

Research Project I

Research project to be carried out under the supervision of a faculty member from the departments of Biological Sciences, Chemistry or Physics.

BPHY 4F91

Research Project II

Research project to be carried out under the supervision of a faculty member from the departments of Biological Sciences, Chemistry or Physics.

Biotechnology

Director

Doug Bruce

Participating Faculty

Jeffrey K. Atkinson (Chemistry), Michael J. Bidochka (Biological Sciences), Ian D. Brindle (Chemistry), Douglas H. Bruce (Biological Sciences), Robert L. Carlone (Biological Sciences), Alan J. Castle (Biological Sciences), Vincenzo De Luca (Biological Sciences), Charles Després (Biological Sciences), Travis Dudding (Chemistry), Heather Gordon (Chemistry), Yousef Haj-Ahmad (Biological Sciences), Tomas Hudlicky (Chemistry), Fiona Hunter (Biological Sciences), Deborah Inglis (Biological Sciences), Costa Metallinos (Chemistry), Andrew Reynolds (Biological Sciences), Adonis Skandalis (Biological Sciences), Gaynor Spencer (Biological Sciences), Edward Sternin (Physics), Art van der Est (Chemistry), Hongbin (Tony) Yan (Chemistry)

Director of Co-operative Programs

Cindy Dunne

Co-operative Program Co-ordinator

J. K. Atkinson

General Information

Administrative Assistant

Beulah Alexander

905-688-5550, extension 3115

Mackenzie Chown F204

<http://www.brocku.ca/biotechnology/>

Biotechnology is the use of living organisms to produce goods and services for practical and industrial purposes. Biotechnology has been used for centuries in fermentation and the making of bread and cheese, but today involves new scientific tools like genetic and protein engineering, cell fusion and production of monoclonal antibodies. Biotechnology is a strategic technology and an important economic component of industrialized nations. Biotechnology at Brock is a joint effort of the departments of Biological Sciences and Chemistry, with courses drawn from both departments plus courses designed specifically for the program.

The Biotechnology Co-op program combines academic and work terms over a period of five academic years. Students spend two years in an academic setting studying the fundamentals

of Biotechnology prior to their first work placement. Successful completion of courses in the core areas of Biotechnology provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Biotechnology Co-op students are assessed an administrative fee for each work term (see the Schedule of Fees).

Eligibility to continue in the Biotechnology Co-op program is based on the student's major and non-major averages. A student with a minimum 70 percent major average and a minimum 60 percent non-major average may continue. A student with a major average lower than 70 percent will not be permitted to continue in the Biotechnology Co-op program, but may continue in the non-co-op Biotechnology stream. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-op Admissions Committee. For further information, see the Co-op Programs section of the Calendar, and contact the Centre for Biotechnology.

The Biotechnology Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Biotechnology with Introduction to Business

The Faculty of Mathematics and Science through the Centre for Biotechnology, in cooperation with the Faculty of Business, offers an 20 credit major program that combines the fundamentals of biotechnology with elective courses chosen from business. Such a program would be of interest to students who wish to pursue a career path in the business of biotechnology.

Admission to the Biotechnology with Introduction to Business program is on the basis of marks. The normal requirement is a minimum 80 percent average on 6 4U courses including one mathematics (minimum 70 percent required), Chemistry (minimum 70 percent required) and two from Biology, a second Mathematics or Physics.

Eligibility to continue is based on the student's major and non-major averages. Students with a minimum 75 percent major average and a minimum 60 percent non-major average will be permitted to continue in the Biotechnology with Introduction to Business program. If a student raises his/her major average to 75 percent, the student may be readmitted to the program only if approved by the Director of Biotechnology.

Students completing the prescribed program fulfill the requirements for a 20 credit BSc With Major Biotechnology and upon graduation, with an overall average of 80 percent, are eligible to apply for and be granted advanced credit (3.5 credits) towards admission to the MBA program offered in the Faculty of Business.

Students are directed to contact the Associate Dean of Mathematics and Science for enquiries concerning the BSc component of this program and the Associate Dean, Graduate Studies, Faculty of Business regarding placement in the MBA program.

Program Notes

1. CHEM 3P40 or 3P41 are strongly recommended as year 3 electives for students who intend to take BTEC 4F90 and 4F91 in the Department of Chemistry in year 4.
2. Students who anticipate doing graduate studies in Chemistry should have credit in CHEM 2P12, 2P32, 2P42, 3P21 and 3P40 or 3P41 in addition to the other required courses in CHEM.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- BIOL 1F90
- CHEM 1F92
- one of MATH 1P01 and 1P02, MATH 1P05 and 1P06 (recommended), MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- one Humanities context credit or Social Sciences context credit

Year 2

- BTEC 2P09 and 2P63
- BIOL 2F01
- CHEM 2P20 and 2P21
- one of BIOL 2P05, 2P92, 2P94, 2P96, 2P98 (recommended), 2Q04
- one of CHEM 2P12, 2P32, 2P42
- the Humanities context credit or Social Science credit not taken in year 1

Year 3

- BTEC 3P09 and 3P50
- BTEC 3P62 or 3P93
- BCHM 3P01 and 3P02
- CHEM 3P20
- one credit from BTEC 3P43, BCHM 3P25, BIOL 3P28, 3P51, CHEM 3P21, 3P40, 3P41, 3P60
- one elective credit (see program notes 1 and 2)

Year 4

- BTEC 3P62 or 3P93 (not taken in year 3)
- BTEC 4F90 and 4F91 (see program note 1)
- one credit from BTEC 4P06, 4P08, 4P11, 4P18, 4P21, 4P57, 4P58, BIOL 4P10, 4P51, 4P53
- one of BTEC 4P27, 4P67, 4P68
- one elective credit (see program note 2)

Biotechnology Co-op (Honours only)

Students admitted to the Biotechnology Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- BIOL 1F90
- CHEM 1F92
- one of MATH 1P01 and 1P02, MATH 1P05 and 1P06 (recommended), MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- one Humanities context credit or Social Sciences context credit

Year 2

- BTEC 2P09 and 2P63
- BIOL 2F01
- one of BIOL 2P05, 2P92, 2P94, 2P96, 2P98 (recommended), 2Q04
- one of CHEM 2P12, 2P32, 2P42
- CHEM 2P20 and 2P21
- SCIE 0N90
- the Humanities context credit or Social Science credit not taken in year 1

Spring/Summer Sessions:

- BTEC 0N01

Year 3

Fall Term:

- BTEC 3P09
- BCHM 3P01
- CHEM 3P20
- one credit from BCHM 3P25, BIOL 3P28, 3P51, CHEM 3P40

Winter Term:

- BTEC 0N02

Year 4

Fall Term:

- BTEC 0N03

Winter Term:

- BTEC 3P50
- BTEC 3P62 or 3P93
- BCHM 3P02
- one credit from BTEC 3P43, CHEM 3P21, 3P41, 3P60

Year 5

- BTEC 3P62 or 3P93 (not taken in year 4)
- BTEC 4F90 and 4F91
- one credit from BTEC 4P06, 4P08, 4P11, 4P18, 4P21, 4P57, 4P58, BIOL 4P51, 4P53
- one of BTEC 4P27, 4P67, 4P68
- one elective credit (see program note 2)

BSc with Major Program

Biotechnology with Introduction to Business

Year 1

- ACTG 1P91
- BIOL 1F90
- CHEM 1F92
- ECON 1P91 and 1P92
- MATH 1P97 and 1P98
- ITIS 1P97

Year 2

- BTEC 2P09 and 2P63
- ACTG 2P12
- BIOL 2F01
- one of BIOL 2P05, 2P92, 2P94, 2P96, 2P98 (recommended), 2Q04
- CHEM 2P20 and 2P21
- one Humanities context credit

Year 3

- BTEC 3P09 and 3P50
- BTEC 3P62 or 3P93
- BCHM 3P01 and 3P02
- one credit from BTEC 3P43, BCHM 3P25, BIOL 3P28, 3P51, CHEM 3P20, 3P21, 3P40, 3P41, 3P60

- ECON 2P91
- MKTG 2P91
- OPER 2P91

Year 4

- BTEC 3P62 or 3P93 (not taken in Year 3)
- one and one-half credits from BTEC 4P06, 4P08, 4P11, 4P18, 4P21, 4P51, 4P57, 4P58, BIOL 4P10, 4P53
- BTEC 4P27 or 4P68
- FNCE 2P91
- ITIS 2P91
- MGMT 3P98
- OBHR 2P91
- one-half non-business elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

BTEC 2P09

Introduction to Biotechnology

Traditional and modern biotechnology. Topics include fermentation processes, medical, agricultural and forensic applications; as well as gene cloning and expression.

Lectures, lab, 6 hours per week.

Prerequisites: BIOL 1F90 and CHEM 1F92.

BTEC 2P63

Introduction to Biophysical Chemistry

(also offered as CHEM 2P63)

Physical chemistry as applied to biological sciences. Introductory thermodynamics,

kinetics, equilibria and transport phenomena as applied to proteins, biological membranes and other biological systems. Laboratory work includes kinetic measurements, equilibrium constant measurements and protein purification and characterization.

Lectures, lab, 6 hours per week.

Prerequisites: CHEM 1F92; one of MATH 1P01 and 1P02, MATH 1P05 and 1P06 (preferred), or MATH 1P97.

BTEC 3P09

Bioreactor Processes

Fermentation technology and bioprocessing; the kinetics and thermodynamics of fermentation. Topics include batch and continuous fermentation, biomass production (single-cell proteins), immobilized systems, by-product recovery and scale-up.

Lectures, lab, 6 hours per week.

Prerequisite: BTEC 2P63.

BTEC 3P43

Applied Microbiology

(also offered as BIOL 3P43)

Ecology of micro-organisms and special adaptations that permit their use in biotechnology and applied microbiology.

Lectures, lab, 6 hours per week.

Restriction: open to BTEC, BTEB, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2P98 or permission of the instructor.

BTEC 3P50

Molecular Genetics

(also offered as BIOL 3P50)

Topics include the genetic code and information flow from nucleic acids to proteins, RNA and protein synthesis; prokaryotic and eukaryotic chromosomes; gene organization; transcription, RNA processing; codon usage; enhancer and transposons.

Lectures, 3 hours per week; lab, 3 hours per week for 6 weeks.

Restriction: open to BTEC, BTEB, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or permission of the instructor.

BTEC 3P62

Bio-organic Chemistry

(also offered as CHEM 3P62)

Mechanistic description of the biosynthesis and metabolism of natural products including alkaloids, terpenes and acetate-derived compounds. Selected examples of biologically/

medicinally active classes of natural products along with their physiological modes of activity.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P21.

BTEC 3P93

Protein and Nucleic Acid Chemistry

(also offered as CHEM 3P93)

Structure and chemistry of proteins and nucleic acids. Selected aspects of transcription, translation, protein folding, post-translational modification, targeting, synthesis and sequencing, and detection techniques.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P21.

Completion of this course will replace previous assigned grade and credit obtained in BTEC (CHEM) 3P63.

BTEC 4F90

Research Project

Experimental research carried out under faculty supervision.

Restriction: permission of the Director.

BTEC 4F91

Thesis

The thesis will incorporate the results of the research project and will form the basis of a seminar presented by the student.

Restriction: open to BTEC majors with approval to year 4 (honours).

Co-requisite: BTEC 4F90.

BTEC 4P06

Bioinformatics

(also offered as BCHM 4P06 and BIOL 4P06)
Genome sequencing projects, gene discovery and gene expression. DNA/RNA/Protein sequence data, including mutagenic processes, molecular evolution and systematics, codon usage, reconstruction of ancient molecules, and prediction of higher-level molecular structure.

Lectures, seminar, 3 hours per week.

Restriction: open to BTEC, BTEB, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (intermediate/Senior), BMED, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Note: BTEC 3P50, BCHM 3P02, BIOL 3P80 and MATH 1P98 are recommended.

BTEC 4P08

Topics in Plant and Microbial Biotechnology
(also offered as BCHM 4P08 and BIOL 4P08)
Characterization of biochemical processes and structures. Genetic modification of such processes and structures through molecular manipulation to meet scientific and/or societal needs. Examples include yeast and microbial enzymes or enzyme systems as well as crop proteins and enzymes.

Lectures, seminar, 3 hours per week.

Restriction: open to BTEC, BTEB, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (intermediate/Senior), BMED, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: one of BTEC 3P50, 3P93 (3P63), BCHM 3P01, 3P02 or permission of the instructor.

BTEC 4P11

Theory of Techniques in Biochemistry and Molecular Biology

(also offered as BCHM 4P11 and BIOL 4P11)
Theory behind basic and some advanced techniques in nucleic acid and protein manipulations and analysis.

Lectures/seminar, 3 hours per week.

Restriction: open to BTEC, BTEB, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 2F01.

BTEC 4P18

Computational Chemistry: Applications in Biotechnology

(also offered as CHEM 4P18)

Structure-based drug design, molecular modelling, conformational search techniques, secondary and tertiary protein structure prediction, quantitative structure activity relationships and bioinformatics.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 13.5 overall credits.

Prerequisite: BTEC 2P63 or CHEM 2P12.

BTEC 4P21

Mutagenesis in Disease and Biotechnology

(also offered as BCHM 4P21 and BIOL 4P21)

Exploration of the various mechanisms of mutagenesis of the genetic material, how they contribute to disease and how they can be adapted to produce new biomolecules.

Lectures, seminar, 3 hours per week.

Restriction: open to BTEC, BTEB, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BMED, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BTEC 3P50 or BCHM 3P02.

BTEC 4P27

Enzyme and Co-enzyme Mechanisms

(also offered as CHEM 4P27)

Hydrolytic and other processes catalyzed by enzymes lacking non-protein prosthetic groups; transferase reactions involving biotin, pyridoxal phosphate, thiamine pyrophosphate, folic acid and cobalamin; oxidation mechanisms involving pyridine nucleotides, flavoenzymes, hydroperoxidases and oxygenases.

Lectures, seminar, 3 hours per week.

Prerequisites: BCHM 3P01, 3P02 and CHEM 2P21.

BTEC 4P51

Molecular Virology

(also offered as BIOL 4P51)

Bacterial and animal viruses. Topics include biochemical properties, virus-host interaction, productive cycle, effect of virus on host cell and organism, viral vectors and gene therapy, recombinant viral vaccines and origin of virus.

Lectures, seminar, 2 hours per week.

Restriction: open to BTEC, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (intermediate/Senior), BMED, BTEB, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BTEC 3P50 or permission of the instructor.

BTEC 4P57

Bacterial Genetics

(also offered as BIOL 4P57)

Molecular and transmission genetics of bacteria. Bacterial genetics from early descriptions of transformation and transduction to current developments in molecular genetics.

Lectures, seminar, 3 hours per week.

Restriction: open to BTEC, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (intermediate/Senior), BMED, BTEB, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisites: BTEC 3P50 and BIOL 2P98 or permission of the instructor.

BTEC 4P58

Fungal Genetics

(also offered as BIOL 4P58)

Transmission and molecular genetics of fungi. Recent advances in gene manipulation and the contribution of studies on these organisms to general genetic principles.

Lectures, seminar, 2 hours per week.

Restriction: open to BTEC, BCHM, BIOL (single or combined), BIOL (Honours)/BEd (intermediate/Senior), BMED, BTEB, NEUR, OEVI majors and BIOL minors until date specified in registration guide. Students must have a minimum of 14.0 overall credits or

approval to year 4 (honours).

Prerequisite: one of BTEC 3P50, BIOL 2P96, 3P51 or permission of the instructor.

BTEC 4P67

Biophysical Techniques

(also offered as BCHM 4P67 and CHEM 4P67)

Modern instrumental methods of biotechnology emphasizing understanding theory. Development of newer technologies which utilize biological components. Topics include optical, X-ray and NMR techniques, separation techniques, hybridization assays, immunoassays, biosensors and mass spectral techniques; membrane chemistry.

Lectures, seminar, 3 hours per week.

Prerequisites: BTEC 2P63 and CHEM 2P21 or permission of the instructor.

BTEC 4P68

Biotransformations

(also offered as CHEM 4P68)

The organic reactions carried out by isolated enzymes, fungal cultures and bacteria. The production of pharmaceutical, agricultural and industrial chemicals by biological processes.

Lectures, 3 hours per week.

Prerequisite: one of BTEC 3P62, 3P63, CHEM 3P20 or permission of the instructor.

CO-OP COURSES

BTEC 0N01

Work Placement I

First Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

BTEC 0N02

Work Placement II

Second Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

BTEC 0N03

Work Placement III

Third Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

BTEC 0N04

Work Placement IV

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

BTEC 0N05

Work Placement V

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

Business

Department of Accounting

Chair

Allister W. Young

Professor

Raafat R. Roubi

Associate Professors

Ian Adamson, Darlene Bay, Gail Lynn Cook, Louis Culumovic, Maureen E. Donnelly, Paul Dunn, Faye Elayan, Hemantha Herath, Sandra M. Felton, Jingyu (Jennifer) Li, Patricia M. Myers, Barbara Saintry, Paul Scarbrough, Anamitra Shome, Linda Stillabower, Allister W. Young

Assistant Professors

Leslie Berger, H. Donald Brown, Pascale Lapointe-Antunes, James Moore, Alex Nikitkov, Parunchana Pacharn, Samir Trabelsi

Lecturers

Marilyn Adams, Norman Chasse, Michelle Lysak, Carolyn MacTavish, Patrick Ounlert

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Cindy Dunne

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Department of Finance, Operations and Information Systems

Chair

Robert Welch

Professors Emeriti

Thomas H. Barnes, J. Robert Hanrahan

Professors

Danny Cho, Martin I. Kusy, Robert Welch

Associate Professors

Michael Armstrong, Mohamed Ayadi, Ernest N. Biktimirov, Hatem ben Ameer, Don Cyr, Zhongzhi He, Eugene Kaciak, Kenneth J. Klassen, Onem Ozocak, Unyong Pyo, John Walker

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Department of Marketing, International Business and Strategy

Chair

H. F. (Herb) MacKenzie

Professor Emeritus

Kenneth E. Loucks

Professors

Barbara J. Austin, A. Tansu Barker, Sheng Deng, Bülent Mengüç

Associate Professors

Carman W. Cullen, H. F. (Herb) MacKenzie, H. Brian W. Metcalfe, Peter Yannopoulos, Lianxi Zhou

Assistant Professors

Eric Dolansky, Shijing (Marshall) Jiang, Chang Hoon Oh, Antonia Mantonakis, Sampsa Samila, Narongsak (Tek) Thongpapanl, Maxim Voronov, Kai-Yu Wang

Lecturers

M. Sharon Broderick, Tauri Caputo, Jacqueline Glenney, Michael Robertson

Director, Co-operative Programs

Cindy Dunne

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Bryan Butryn, Diana deMan, Lainie Wagner

Department of Organizational Behaviour, Human Resource Management, Entrepreneurship and Ethics

Chair

Deborah M. Zinni

Professor Emeritus

William W. Liddell

Professors

Teresa V. Menzies, Carol A. Sales

Associate Professors

Dirk De Clercq, Eli Levanoni, E. Sharon Mason, Diane Miller, Thomas M. Mulligan, Kojo Saffu, J. David Whitehead, Barry Wright, Deborah M. Zinni

Assistant Professors

Isabelle Giroux, Calvin Hayes, Mark Julien, Dominic Lim, Chelsea Willness

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The Faculty of Business offers four-year, 20 credit programs in Accounting and Business Administration. A subsequent degree is available in the Bachelor of Accounting program for students holding an undergraduate degree in another discipline. A five credit Minor in Business is open to Brock students pursuing degrees in other Faculties.

Normally students cannot take courses for which they lack the prerequisites or for which they do not meet course restrictions. Exceptions may be allowed only in extraordinary circumstances and with permission of the instructor. Exceptions that would result in a violation of university regulations and exceptions for students refused admission into the Faculty of Business or who have been adjudicated out of any Faculty of Business program will also require Dean's approval. Students should submit override requests on-line at: <https://portal.bus.brocku.ca>

Faculty of Business regulations regarding requirements for approval of a Letter of

Permission are outlined at: <http://www.bus.brocku.ca/current/undergraduate/handbook/letterofperm.html>.

Please refer to the Student Handbook at https://www.portal.bus.brocku.ca/for_program_plans_noting_fall/winter_sequencing.

Bachelor of Accounting (BAcc)

The program in Accounting is designed for students pursuing careers in the accounting profession. The program is professionally oriented and combines a high degree of specialization in Accounting along with studies in Business, the Social Sciences, Humanities and Mathematics and Science. Students can choose either Program A, which is fully accredited by the Institute of Chartered Accountants of Ontario for the CA (Chartered Accountant) and by the Certified General Accountants of Ontario for the CGA (Certified General Accountant) or Program B which is fully accredited by the CMA (Certified Management Accountant).

The Bachelor of Accounting program is offered as a regular four-year Honours program and on a Co-operative work/study basis. This is a limited enrolment program. On successful completion of the program, the degree Bachelor of Accounting (BAcc) is awarded.

Bachelor of Accounting Co-operative (Co-op)

The Co-op program is fully accredited by the Institute of Chartered Accountants of Ontario. Students work in a wide variety of locations throughout Ontario. The program scheduling combines academic and work terms over a four and one-half year period. Students must register with the Institute of Chartered Accountants of Ontario on a conditional basis at the beginning of the first work period. Chartered Accountant students must accumulate a minimum of 30 months work experience, six months of which must follow the completion of the Bachelor of Accounting degree. In addition to the current fees for courses in academic study terms, Co-op Accounting students are assessed an annual administrative fee (see the Schedule of Fees). Students awarded more than 5.0 transfer credits normally are not considered for the Bachelor of Accounting Co-op stream. The Bachelor of Accounting Co-op program is not open to international VISA students.

Bachelor of Business Administration (BBA)

The program in Business Administration is designed for students pursuing careers in business and government. The program is professionally oriented and combines studies in the Business

disciplines with studies in the Social Sciences, Humanities and Mathematics and Science.

The Bachelor of Business Administration program is offered as a regular four-year Honours program and on a Co-operative work/study basis. This is a limited enrolment program. On successful completion of the program, the degree Bachelor of Business Administration (BBA) is awarded.

The requirement for graduation with a BBA (Honours) is a minimum 70 percent major average and a minimum 60 percent non-major average. The requirement for graduation with a BBA is a minimum 60 percent major average and a minimum 60 percent overall average. Only those students admitted to a concentration who graduate with a BBA (Honours) will have their concentration recognized on their diploma and official transcript.

All BBA students are required to take a number of core courses. At the end of year 2 students may apply for admission to an area of concentration.

Business Administration Co-operative (Co-op)

The BBA Co-op program is a limited enrolment program combining academic and work terms over a four and one-half year period. Students spend two years in an academic setting studying the functional areas of business as well as the Canadian and global business environments prior to the first work term. The exposure to courses in the core areas of business provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Co-op students are assessed an annual administrative fee (see the Schedule of Fees). Students awarded more than 5.0 transfer credits normally are not considered for the Bachelor of Business Administration Co-op stream.

The BBA Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Periodic Review of Eligibility to Continue

BAcc Co-op

Students admitted to the Bachelor of Accounting Co-op program must follow the Co-op program schedule. The eligibility of each student to continue is based on the student's major average and non-major average and will be reviewed

when the student has attempted three or more credits since the previous review.

1. A student with a minimum 70 percent major average, a minimum 60 percent non-major average, will be permitted to continue.
2. A student with a major average lower than 70 percent average will not be permitted to continue in the BAcc Co-op program. Re-admission to the BAcc program requires a minimum 70 percent major average, 60 percent non-major average, a minimum of 70 percent ACTG average and permission of the Co-op Admissions Committee.
3. Students admitted to the Co-op program must follow the BAcc Co-op program schedule. Failure to adhere to the schedule, without the permission of the Co-op Programs Director, may result in removal from the BAcc Co-op program.

BAcc

Eligibility to continue is based on the student's major average and non-major average and will be reviewed when the student has attempted three or more credits since the previous review.

1. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue in the program.
2. A student with a major average lower than 70 percent will not be permitted to continue in the BAcc program.

BBA Co-op

Students admitted to the Bachelor of Business Administration Co-op program must follow the Co-op program schedule. Eligibility to continue is based on the student's major average and non-major average and will be reviewed following completion of a Session.

1. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue.
2. A student with a major average lower than 70 percent will not be permitted to continue in the BBA Co-op program, but may continue in the BBA stream. If a student subsequently raises his/her major average to 70 percent, the student can be readmitted to the Co-op program only if approved by the Co-op Admissions Committee.

BBA

Eligibility to continue is based on the student's major average and non-major average and will be reviewed following completion of a Session.

1. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue in the BBA Honours with a concentration program, as outlined in the concentrations below.
2. A student with a minimum 60 percent major average and a minimum 60 percent overall

average will be permitted to continue in the BBA program.

3. A student with a major average lower than a 60 percent will not be permitted to continue in the BBA program.

Re-Admission and Transfer Eligibility

The application form for re-admission or to transfer into the BAcc or BBA program (Request to *Declare or Change Majors*) is available on the web at <http://www.brocku.ca/registrar/forms/index> or at the Registrar's Office. The Request to *Declare or Change Majors* form to transfer into either the BAcc or BBA must be completed and returned to the Office of the Registrar by May 15th. The BAcc and BBA are limited enrolment programs. Admission is not guaranteed by attainment of the minimum requirements outlined below.

To be eligible for readmission to the BAcc program (or to transfer from another program), a student must meet all of the following requirements:

- Completion of at least two and one-half major credits required in the BAcc program, including both ACTG 1P91 and 2P12 or ACTG 1P11 and 1P12 and at least one course in each of ECON and MATH.
- A minimum 70 percent average in BAcc major courses, 60 percent non-major average and a minimum 70 percent ACTG average, and permission of the Chair.

To be eligible for readmission to the BBA program (or to transfer from another program), a student must meet all of the following requirements:

- Completion of at least 2.5 major credits required in the BBA, including ACTG 1P91 and at least one course in each of ECON and MATH.
- A minimum 65 percent average overall and in all business courses taken to date, which would be included in the calculation of the BBA major average.
- A minimum 60 percent overall average.

Program Notes

1. For BBA students, a minimum of one elective credit in year 3 and 4 must be a non-business elective credit. For BAcc students, one and one-half electives must be non-business elective credits.

2. There is a one-half credit overload for BBA Co-op students during the Winter Term of year 3.

3. Students wishing to obtain a Minor, within a degree program, may not use the same courses(s) to satisfy both the major requirements and the minor requirements. CSBC, SPMA and TOUR majors are not eligible for the Minor in Business.

4. BAcc students pursuing the CA designation are required to take ACTG 3P41, ACTG 4P41 and ACTG 4P42. BAcc students and BBA students pursuing the CMA designation are required to take ACTG 4P40 (NOT ACTG 3P41, 4P41 and 4P42). Students undecided about Program A or B, should follow Program A.

5. In year 3 and 4 of the program there are two streams: Program A requirements are designed for students pursuing the CA designation after graduation. Program B requirements are designed for students pursuing the CMA designation after graduation. Students interested in the CGA designation should consult the Chair.

6. A maximum of one-half ITIS credit numbered 3(alpha)90 or above may be taken by Operations Management students.

7. Students in the EBS program may not take ECON 2P23, ETHC 3P82, FNCE 3P93, OBHR 3P42, MGMT 4P90 as electives at Brock nor Accounting and Control, English (x2), Workshop or seminar as electives at EBS.

8. Students may opt to take MKTG 3P96 Winter Term of Year 3. One of FNCE 3P96, 4P03, 4P05 would be taken in Fall of Year 4.

9. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Bachelor of Accounting (Honours only)

Year 1

- ACTG 1P11, 1P12 and 1P71
- ECON 1P91 and 1P92
- ITIS 1P97
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P21, 2P31 and 2P32
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- one-half elective credit (see program note 1)

Year 3

- ACTG 3P11, 3P23, 3P33 and 3P97
- ACTG 3P41 or 4P40 (see program note 4)
- ETHC 3P82
- one Humanities context credit
- one elective credit (see program note 1)

Year 4

- ACTG 4P11, 4P12 and 4P34
- MGMT 4P90
- one elective credit (see program note 1)

Program A:

- ACTG 4P41, 4P42, 4P61 and 4P62 (see program notes 4 and 5)

Program B:

- MGMT 3P98
- one credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54 (see program note 5)
- one-half elective credit (see program note 1)

Bachelor of Accounting Co-op (Honours only)

Year 1

- ACTG 1P11, 1P12 and 1P71
- ECON 1P91 and 1P92
- ITIS 1P97
- MATH 1P97 and 1P98
- one Humanities context credit

Winter Term:

- ACTG 0N90

Year 2

Fall Term:

- ACTG 2P31 and 3P97
- ECON 2P91
- FNCE 2P91
- OPER 2P91

Winter Term:

- ACTG 0N01

Spring/Summer Sessions:

- ACTG 2P21, 2P32 and 3P11
- FNCE 3P93

- ETHC 3P82
- one Sciences context credit

Year 3

Fall Term:

- ACTG 0N02

Winter Term:

- ACTG 0N03

Spring/Summer Sessions:

- ACTG 3P23, 3P33 and 3P41 (see program note 4)
- OBHR 2P91

Year 4

Fall Term:

- ACTG 4P41 (see program note 4)
- MKTG 2P91

•one and one-half elective credits (see program note 1)

Winter Term:

- ACTG 0N04

Spring/Summer Sessions:

- ACTG 4P34, 4P42 and 4P61 (see program note 4)
- one-half elective credit (see program note 1)

Year 5

Fall Term:

- ACTG 4P11, 4P12 and 4P62
- MGMT 4P90

•one-half elective credit (see program note 1)

Bachelor of Accounting for Students

Holding Other Degrees

Students holding a university degree in which the major area of study is other than a Business discipline and with a minimum 70 percent overall average may be admitted and receive a maximum of 10 credits towards a Bachelor of Accounting degree (offered as an Honours program only). Students who have been granted fewer than 10 advanced standing credits will require more than 10 Brock credits to complete the requirements.

Bachelor of Business Administration

Students who have successfully completed year 1 and 2 required BBA courses may apply for admission to an area of concentration provided they meet the specific requirements of the

concentration as outlined below. The deadline for concentration admission applications is June 15th.

Concentration in Accounting

To concentrate in Accounting, students must have a minimum 70 percent major average and a minimum 70 percent average in ACTG 1P91 and 2P12 or ACTG 1P11 and 1P12.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ACTG 2P21, 2P31, 2P32 and 3P97
- FNCE 3P93
- ETHC 3P82
- MKTG 3P24
- OBHR 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1

Year 4

- ACTG 3P11 and 4P40 (see program note 4)
- MGMT 3P98 and 4P90
- three elective credits (see program note 1)

Concentration in Entrepreneurship

To concentrate in Entrepreneurship, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91

- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- One of ENTR 3P92, 3P93, 3P94, 3P96, 3P98, 3P99, 4P10, 4P93
- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- MGMT 4P90
- one and one-half credits from ENTR 3P92, 3P93, 3P94, 3P96, 3P98, 3P99, 4P10, 4P93
- one credit from ACTG 4P40, ENTR 3(alpha)90 or above, OBHR 3P96, 4P65
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one and one-half elective credits (see program note 1)

Concentration in Finance

To concentrate in Finance, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses and a minimum grade of 70 percent in FNCE 2P91 or a minimum 70 percent average in FNCE 2P91 and FNCE 3P93.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93 and 3P96
- MGMT 3P98

- MKTG 3P24
- OBHR 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- FNCE 4P04 and 4P16
- MGMT 4P90
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one and one-half FNCE credits numbered 3(alpha)90 or above
- one and one-half elective credits (see program note 1)

Concentration in General Management

To concentrate in General Management, students must have a minimum 70 percent overall average in all year 1 and year 2 required BBA courses and a minimum 70 percent average in FNCE 2P91, MKTG 2P91, OBHR 2P91 and OPER 2P91.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- One of FNCE 3P96, 4P03, 4P05
- MGMT 4P90
- MKTG 3P96
- two credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half elective credits (see program note 1)

Concentration in Human Resource

Management

To concentrate in Human Resource Management, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses and a minimum grade of 70 percent in OBHR 2P91 or a minimum 70 percent average in OBHR 2P91 and 3P97.

Note: The following courses are recognized by the Human Resources Professionals Association (HRPA) as education requirements towards the Certified Human Resource Professional (CHRP) designation: ACTG 1P91, 2P12, OBHR 2P91, 3P42, 3P96, 3P97, 3P98, 4P66, 4P67, 4P69, 4P94

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P42 and 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- MGMT 4P90
- OBHR 3P96
- two and one-half OBHR credits numbered 3(alpha)90 or above
- one and one-half elective credits (see program note 1)

Concentration in Information Systems

To concentrate in Information Systems, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses and a minimum grade of 70 percent in ITIS 2P91.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- ITIS 3P98
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- ITIS 4P22, 4P25 and 4P26
- MGMT 4P90
- one of ITIS 3P91, 4P21, 4P91, 4P27
- one credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one-half credit from ITIS 3(alpha)90 or above, OPER 3(alpha)90 or above, GEOG 3P05
- one elective credit (see program note 1)

Concentration in International Business

To concentrate in International Business, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91

- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1
- one and one-half elective credits (see program note 1)

Year 4

- MGMT 4P90
- one credit numbered 3(*alpha*)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- two credits from ECON 3P13, 3P93, ENTR 4P93, FNCE 3P96, 4P05, MGMT 4P35, 4P36, 4P94, MKTG 4P33, 4P34, OBHR 4P90
- one elective credit or one language credit other than English numbered 1(*alpha*)90 or above (see program note 1)
- one-half elective credit (see program note 1)

Concentration in Marketing

To concentrate in Marketing, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses and a minimum grade of 70 percent in MKTG 2P91 or a minimum 70 percent average in MKTG 2P91 and 3P24.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24 and 3P96
- OBHR 3P97
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- MGMT 4P90
- MKTG 4P25 and 4P31
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half credits from MKTG 4P23, 4P26, 4P27, 4P28, 4P29, 4P33, 4P34, 4P36, 4P91, 4P92, 4P93, 4P94, 4P95, 4P98, 4V90-4V99
- one and one-half elective credits (see program note 1)

Concentration in Operations Management

To concentrate in Operations Management, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses and a minimum grade of 70 percent in OPER 2P91.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- OPER 3P91
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- MGMT 4P90
- OPER 4P26 and 4P41
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one and one-half ITIS or OPER 3(*alpha*)90 or above credit (see program note 6)
- one and one-half elective credits (see program note 1)

Concentration in Public Administration

To concentrate in Public Administration, students must have a minimum 70 percent overall average in all year 1 and 2 required BBA courses.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- POLI 2P99 and 2Q98
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit

Year 4

- POLI 4P50 and 4P54
- one credit numbered 3(*alpha*)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one and one-half credits from POLI 3P52, 3P98, 4P01, 4P14, 4P15, 4P50, 4P52, 4P59, 4V10-4V19, 4V50-59, 4V60-4V69
- one and one-half elective credits

Students Not in an Area of Concentration

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- ENTR 2P91
- FNCE 2P91
- ITIS 2P91

- MKTG 2P91
- OBHR 2P91
- OPER 2P91

Year 3

- ETHC 3P82
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P97
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- the Humanities context credit or Sciences context credit not taken in Year 1
- one elective credit (see program note 1)

Year 4

- MGMT 4P90
- two credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER numbered 3(alpha)90 or above, POLI 4P54
- two and one-half elective credits (see program note 1)

Concentration in Accounting Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

- Fall Term:
- ADMI 0N11

Winter Term:

- ACTG 2P21 and 2P40
- ECON 2P23
- ETHC 3P82
- one-half Humanities context credit
- one-half elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

- Fall Term:
- ACTG 2P31 and 3P97
 - ENTR 2P91

- MGMT3P98
- one-half Humanities context credit

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P32 and 3P11
- one elective credit (see program note 1)

Year 5

- Fall Term:
- ACTG 4P40
 - MGMT 4P90
 - one and one-half elective credits (see program notes 1 and 8)

Concentration in Entrepreneurship Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- ITIS 2P91
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

- Fall Term:
- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one-half Humanities context credit
- one elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

- Fall Term:
- MGMT 3P98
 - one credit from ACTG 4P40, ENTR 3(alpha)90 or above, OBHR 3P96, 4P65
 - one-half Humanities context credit
 - one-half elective credit (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40
- ETHC 3P82
- one elective credit (see program note 1)

Year 5

- Fall Term:
- MGMT 4P90
 - two credits from ENTR 3P92, 3P93, 3P94, 3P96, 3P98, 3P99, 4P10, 4P93

Concentration in Finance Co-op (Honours only)

Students admitted to the BBA Co-op program must follow the program schedule as listed below. Failure to adhere to the schedule may result in removal from the program.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

- Fall Term:
- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- FNCE 3P96
- one-half Humanities context credit
- one elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

- Fall Term:
- FNCE 4P04 and 4P16
 - MGMT 3P98
 - one-half Humanities context credit
 - one-half elective credit (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40

- ETHC 3P82
- one elective credit (see program note 1)

Year 5

Fall Term:

- MGMT 4P90
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half FNCE credits numbered 3(alpha)90 or above

Concentration in General Management Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

Fall Term:

- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- one of FNCE 3P96, 4P03, 4P05 (see program note 8)
- one-half Humanities context credit
- one elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- MGMT 3P98
- MKTG 3P96 (see program note 8)
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one-half Humanities context credit
- one-half elective credits (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40
- ETHC 3P82
- one elective credit (see program note 1)

Year 5

Fall Term:

- MGMT 4P90
- two credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER

Concentration in Human Resource Management Co-op (Honours only)

Note: The following courses are recognized by the Human Resources Professionals Association (HRPA) as education requirements towards the Certified Human Resource Professional (CHRP) designation: ACTG 1P91, 2P12, OBHR 2P91, 3P42, 3P96, 3P97, 3P98, 4P66, 4P67, 4P69, 4P94

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

Fall Term:

- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- OBHR 3P42
- one-half OBHR credit numbered 3(alpha)90 or above
- one-half Humanities context credit
- one-half elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- MGMT 3P98
- OBHR 3P96
- one-half OBHR credit numbered 3(alpha)90 or above
- one-half Humanities context credit
- one-half elective credit (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40
- ETHC 3P82
- one elective credit (see program note 1)

Year 5

Fall Term:

- MGMT 4P90
- one and one-half OBHR credits numbered 3(alpha)90 or above
- one-half elective credit

Concentration in Information Systems Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

Fall Term:

- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- ITIS 3P98
- one of ITIS 3P91, 4P21, 4P27, 4P91
- one-half Humanities context credit
- one-half elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- ITIS 4P22 and 4P25
- MGMT 3P98
- one-half Humanities context credit
- one-half elective (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40

- ETHC 3P82
- one elective credit (see program note 1)

Year 5

Fall Term:

- ITIS 4P26
- MGMT 4P90

•one-half credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER

•one-half credit from ITIS 3(alpha)90 or above, OPER 3(alpha)90 or above, GEOG 3P05

•one-half elective (see program note 1)

Concentration in International Business

Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

Fall Term:

- ADMI 0N11

Winter Term

- ECON 2P23
- ENTR 2P91

•one-half credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER

•one of ECON 3P13, 3P93, ENTR 4P93, FNCE 3P96, 4P05, MGMT 4P35, 4P36, 4P94, MKTG 4P33, 4P34, OBHR 4P90

•one-half Humanities context credit

•one-half elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- MGMT 3P98

•one-half credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR

•one of ECON 3P13, 3P93, ENTR 4P93, FNCE 3P96, 4P05, MGMT 4P35, MKTG 4P33, 4P34, OBHR 4P90

•one-half Humanities context credit

•one-half elective (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40
- ETHC 3P82

•one elective credit or one language credit other than English numbered 1(alpha)90 or above (see program note 1)

Year 5

Fall Term:

- MGMT 4P90

•one credit from ECON 3P13, 3P93, FNCE 3P96, 4P05, MGMT 4P35, MKTG 4P33, 4P34, OBHR 4P90

•one elective credit (see program note 1)

Concentration in Marketing Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

Fall Term:

- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- MKTG 3P96

•one-half credit from ACTG, ENTR, FNCE, MGMT, ITIS, MKTG, OBHR, OPER, POLI 4P54

•one-half Humanities context credit

•one-half elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- MGMT 3P98

•MKTG 4P25 and 4P31

•one-half Humanities context credit

•one-half elective credit (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40

•ETHC 3P82

•one elective credit (see program note 1)

Year 5

Fall Term:

- MGMT 4P90

•one and one-half credits from MKTG 4P23, 4P26, 4P27, 4P28, 4P29, 4P33, 4P36, 4P34, 4P91, 4P92, 4P93, 4P94, 4P95, 4P98, 4V90-4V99

•one-half elective credit (see program note 1)

Concentration in Operations Management Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3

Fall Term:

- ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 2P91
- OPER 3P91

•one-half ITIS or OPER 3(alpha)90 or above credit (see program note 6)

•one-half Humanities context credit

•one-half elective credit (see program notes 1 and 2)

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- MGMT 3P98
- OPER 4P41
- one-half ITIS or OPER 3(alpha)90 or above credit (see program note 6)
- one-half Humanities context credit
- one-half elective credit (see program note 1)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40
- ETHC 3P82
- one elective credit (see program note 1)

Year 5

Fall Term:

- MGMT 4P90
- OPER 4P26
- one-half credit from ACTG, ENTR, FNCE, MGMT, ITIS, MKTG, OBHR, OPER
- one-half ITIS or OPER 3(alpha)90 or above credit (see program note 6)
- one-half elective credit (see program note 1)

Concentration in Public Administration Co-op (Honours only)

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Sciences context credit

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- ITIS 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P97
- OPER 2P91

Year 3 Winter Term, Years 4 and 5 Fall Term:

Contact the Department for course requirements

Year 3

Fall Term:

- ADMI 0N11

Spring/Summer Sessions:

- ADMI 0N12

Year 4

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40

- ETHC 3P82
- one elective credit (see program note 1)

Combined Honours Program

Combined Honours programs leading to a Bachelor of Arts (Honours) degree are available in Business and Economics, Business and Liberal Arts and Business and Political Science

Business and Economics

See the Economics entry for a listing of course requirements.

Business and Liberal Arts

See the Liberal Arts entry for a listing of course requirements.

Business and Political Science

See the Political Science entry for a listing of course requirements.

Also reference, Business Economics, Biotechnology with Introduction to Business, Communication Studies and Computing and Business.

Certificate in Administrative Studies

The Faculty of Business offers a Certificate in Administrative Studies. This program is designed to prepare mature students who have completed undergraduate degrees to successfully pursue studies in business at the graduate level.

Eligibility requirements:

- Proficiency in English language as required for admission to an undergraduate degree program;
- Undergraduate degree or equivalent with minimum C standing;
- At least one year of full-time work experience (or permission of the Associate Dean, Faculty of Business Undergraduate Programs)

Students wishing to pursue conditional admission to graduate programs at the point of application to the Certificate must also submit a full graduate application package for their program of interest.

Under exceptional circumstances, a student may be permitted to substitute other relevant course for those that form the usual program with permission of the Associate Dean, Faculty of Business Undergraduate Programs.

See "Certificate Requirements" under Academic Regulations.

Students must maintain a minimum 70 percent average in the required courses listed below to continue in the certificate program.

The Certificate in Administrative Studies will be awarded upon completion of the following courses with a minimum 70 percent overall average:

- ACTG 1P11
- ECON 1P91
- FNCE 2P51
- MATH 1P98
- MGMT 1P93 and 1P96
- MKTG 2P51
- OBHR 2P51
- one elective credit (see program note 9)

Minor in Business

Students in other disciplines can obtain a Minor in Business within their degree program by completing the following courses with a minimum 60 percent overall average:

- ACTG 1P91 and 2P12
- ENTR 2P51 (see program note 3)
- FNCE 2P51
- MGMT 1P51, 1P52 and 3P51 (see program note 3)
- MKTG 2P51
- OBHR 2P51
- OPER 2P51

Brock/University Articulation Agreement

European Business School

The European Business School, International University Schloss Reichartshausen (EBS), ranked as one of the top business schools in Germany, and Brock University offers students the opportunity to complete a dual degree program. Brock students will complete the first two and one-half years at Brock and the remaining one and one-half at EBS. Upon successful completion of the course of studies students will receive a Bachelor of Business

Administration with a Concentration in International Business degree from Brock and a Bachelor of Science degree from EBS.

The Program of study at EBS will consist of regularly offered courses taught in English and by regular EBS faculty. Brock students will be required to study the German language as part of the dual degree program.

Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Sciences context credit

Year 2

- ACTG 2P12 and 2P40
- ECON 2P91
- ENTR 2P91
- ITIS 2P91
- FNCE 2P91
- MKTG 2P91 and 3P24
- OBHR 2P91
- OPER 2P91

Year 3

Fall Term:

- MGMT 3P98
- two and one-half elective credit (see program notes 1, 2 and 7)

Winter Term:

- taken at European Business School (see program note 7)

Year 4

- taken at European Business School (see program note 7)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for

which prerequisites and/or restrictions have not been met.

ACCOUNTING

ACTG 1P11

Introduction to Accounting I

Nature and role of accounting information for planning, decision making, control and external reporting by businesses and other economic organizations.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors.

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 1P91.

ACTG 1P12

Introduction to Accounting II

Emphasizing the application of various accounting concepts to generate information for a variety of purposes.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors.

Prerequisite: ACTG 1P11.

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 2P12.

ACTG 1P71

The Legal Environment of Business

Canadian legal system as it affects the modern business environment, in particular the accounting professional. Topics include financial disclosure and audit requirements, corporate finance and securities, corporate capacity and agency and professional liability for negligence and other business torts.

Lectures, seminar, 3 hours per week.

Restriction: open to BAcc majors.

Note: enrolment limited to 65 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 2P40.

ACTG 1P91

Introduction to Financial Accounting

Fundamental concepts of financial accounting as related to the balance sheet, income statement and statement of cash flow. Problems of income determination, asset and equity measurements and analysis of financial statements.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA, BBE, BCB, BTEB, combined Business majors and Business minors until date specified in Registration guide. In Winter Term not open to BBA and BBE majors until date specified in Registration guide.

Note: enrolment limited to 45 students per

section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 1P11.

ACTG 2P12

Introduction to Management Accounting

Accounting for managerial decision-making, including identifying relevant data, understanding various cost accounting systems and breakeven analysis.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA, BBE, BCB, BTEB, combined Business majors and Business minors until date specified in Registration guide. In Winter Term not open to BBA majors until date specified in Registration guide.

Prerequisite: ACTG 1P91.

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 1P12.

ACTG 2P21

Cost and Managerial Accounting I

Internal recording systems developed to implement and guide management planning and control emphasizing cost identification, product costing, cost behaviour and cost allocations as well as analysis and communication of relevant information to users in a professional manner.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors, BBA students approved to the accounting concentration and BBE Financial Economics option students until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Term open to BAcc Co-op majors until date specified in Registration guide.

Prerequisite: ACTG 1P12 or 2P12.

Note: enrolment limited to 40 students per section.

ACTG 2P31

Accounting for External Reporting I

Topics in theory preparation and analysis of external financial reports under Canadian GAAP. Topics may include the Canadian financial reporting environment, the conceptual framework underlying financial reporting, accounting information systems, revenue recognition, reporting financial performance, financial position and cash flows, and accounting for cash, temporary investments and receivables.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors and BBA students approved to the accounting concentration until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average.

Prerequisite: ACTG 1P12 or 2P12.

Note: enrolment limited to 40 students per section.

ACTG 2P32

Accounting for External Reporting II

Advanced topics in the preparation of external financial reports according to current GAAP. Use, critique and analysis of financial reports. Topics may include accounting for inventory; property, plant and equipment; intangibles; short and long term liabilities; and owners' equity.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors and BBA students approved to the accounting concentration until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Term open to BAcc Co-op majors until date specified in Registration guide. Prerequisite: ACTG 2P31.

Note: enrolment limited to 40 students per section.

ACTG 2P40

Commercial Law

Basic legal considerations for the business organization.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA, BBE, BCB and combined Business majors until date specified in Registration guide. In Spring Term open to BBA Co-op majors until date specified in Registration guide.

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 1P71.

ACTG 3P11

Auditing Concepts

Nature of verification, audit evidence, testing, the elements of effective control structures, the use of statistical sampling and evolution of external, internal and comprehensive auditing.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors and BBA students approved to the accounting concentration until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Term open to BAcc Co-op majors until date specified in Registration guide. Prerequisite: ACTG 3P97 (3P22 or MGMT 4P12).

Note: enrolment limited to 40 students per section.

ACTG 3P23

Cost and Managerial Accounting II

Continuation of the study of internal recording systems emphasizing performance evaluation,

divisional performance measurement, transfer pricing, behavioural implications of accounting information and current issues including analysis and communication of relevant information to users in a professional manner.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Session open to BAcc Co-op majors until date specified in Registration guide.

Prerequisite: ACTG 2P21.

Note: enrolment limited to 40 students per section.

ACTG 3P33

Accounting for External Reporting III

Advanced topics in the preparation of external financial reports according to current GAAP. Use, critique and analysis of these reports. Topics may include accounting for long-term investments, leases, income taxes, pensions, error analysis, cash flow statements and ethics.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Session open to BAcc Co-op majors until date specified in Registration guide.

Prerequisite: ACTG 2P32.

Note: enrolment limited to 40 students per section.

ACTG 3P41

Taxation I

Principles underlying federal income taxation in Canada through an analysis of the Income Tax Act, R.S.C., as amended. Computation of net income for tax purposes.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Session open to BAcc Co-op students until date specified in Registration guide.

Prerequisite: ACTG 1P12 or 2P12.

Note: enrolment limited to 40 students per section.

ACTG 3P97

Accounting Information Systems

Fundamental concepts of accounting information systems emphasizing analysis, design and implementation of information systems and internal controls.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors and BBA students approved to the accounting concentration until the date specified in the

Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average.

Prerequisites: ACTG 1P12 or 2P12; ITIS 1P97.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ACTG 3P22.

ACTG 4P03

Financial Analysis

(also offered as FNCE 4P03)

Importance and use of financial statement information in areas such as analysis of credit, equity investment, industry and competitors, analysis of mergers and acquisitions and the firm's strategy in communicating information to capital markets.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc students, BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide.

Prerequisite: FNCE 3P93.

Note: enrolment limited to 40 students per section.

ACTG 4P11

Accounting Theory

Economic, behavioural and ethical foundations of accounting theory including the need for and development of standards, a conceptual framework, alternatives to present accounting models and current issues.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors with a minimum of 12.0 overall credits until the date specified in the Registration guide. After that date open to students who have a minimum of 12 overall credits and a 70 percent major average and a minimum 60 percent non-major average. Prerequisite: ACTG 3P33.

Note: enrolment limited to 40 students per section.

ACTG 4P12

Integration and Problem Solving

Incorporates sub disciplines of accounting in the context of a wider view of organizations through the examination of applied and theoretical issues.

Cases, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Fall Term, open to BAcc Co-op majors until date specified in Registration guide.

Prerequisites: ACTG 3P23 and 3P33.

Note: enrolment limited to 40 students per section.

ACTG 4P34

Accounting for External Reporting IV

Advanced topics in theory, preparation and analysis of external financial reports under Canadian GAAP. Topics may include theory and practice of consolidation procedures, accounting for international operations and financial instruments, and basics of accounting for not-for-profit organizations.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Spring Session open to BAcc Co-op majors until date specified in Registration guide. In Fall Term not open to BAcc Co-op majors without permission of the instructor.

Prerequisite: ACTG 3P33.

Note: ACTG 3P33 may be taken concurrently. Enrolment limited to 40 students per section.

ACTG 4P40

Tax Strategies for Planning and Decision Making

Principles of individual and corporate taxation emphasizing the effects of federal and sub federal income taxes on decision making in business.

Lectures, discussion, cases, 3 hours per week.

Restriction: open to BAcc, BBA, BBE Financial Economics option students and combined Business majors with a minimum of 10.0 overall credits until the date specified in the Registration guide. After that date open to students who hold a minimum 70 percent major average and a minimum 60 percent non-major average.

Prerequisite: ACTG 1P12 or 2P12.

Note: enrolment limited to 40 students per section.

ACTG 4P41

Taxation II

Computation of taxable income and taxes payable for individuals and corporations. Rights and obligations of the taxpayer. Determination of the effects of federal income taxes on decision-making.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average.

Prerequisite: ACTG 3P41.

Note: enrolment limited to 40 students per section.

ACTG 4P42

Taxation III

Topics include tax implications of changes in corporate structures, corporate distributions, rollovers and shareholder/manager remuneration, trusts and partnerships.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum of 12.0 overall credits and a 70 percent major average and a minimum 60 percent non-major average. In Spring Session open to BAcc Co-op majors until date specified in Registration guide.

Prerequisite: ACTG 4P41.

Note: enrolment limited to 40 students per section.

ACTG 4P61

External Auditing I

Financial statement audit including the professional and legal responsibilities of the auditor, generally accepted auditing standards, risk, materiality and the planning and execution of the audit.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors with a minimum of 12.0 overall credits until the date specified in the Registration guide. After that date open to students who have a minimum of 12.0 overall credits and a 70 percent major average and a minimum 60 percent non-major average. In Spring Session open to BAcc Co-op majors until date specified in Registration guide. In Fall Term not open to BAcc co-op majors without permission of the instructor.

Prerequisite: ACTG 3P11.

Note: enrolment limited to 40 students per section.

ACTG 4P62

External Auditing II

Emphasis on the completion of the audit, evaluation of results, audit reports, review engagements and current topics.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc majors until the date specified in the Registration guide. After that date open to students who have a minimum 70 percent major average and a minimum 60 percent non-major average. In Fall Term, open to BAcc Co-op majors until date specified in Registration guide.

Prerequisite: ACTG 4P61.

Note: enrolment limited to 40 students per section.

ACTG 4P91

Research Topic

Directed intensive study or research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BAcc, BBA and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: to be chosen in consultation with the supervising faculty member.

ACTG 4V90-4V99

Topics in Accounting

Courses in specialized areas within the discipline.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc, BBA and combined Business majors.

CO-OP COURSES

ACTG 0N01

Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

ACTG 0N02

Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

ACTG 0N03

Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

ACTG 0N04

Work Placement IV

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

ACTG 0N05

Work Placement V

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

ACTG 0N90

Co-op Training and Development

Framework for the development of learning objectives by students for individual work terms. Includes orientation to the Co-op experience goal setting, résumé preparation, interview skills preparation.

Lectures, presentation, site visits, 2 hours per week.

Restriction: open to BAcc Co-op students.

ADMI 0N11

Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to BBA Co-op students.

ADMI 0N12

Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to BBA Co-op students.

ADMI 0N13

Work Placement III

Third co-op work placement (4 months) with

an approved employer.
Restriction: open to BBA Co-op students.

ADMI 0N14

Work Placement IV

Optional co-op work placement (4 months) with an approved employer.
Restriction: open to BBA Co-op students.

ADMI 0N15

Work Placement V

Optional co-op work placement (4 months) with an approved employer.
Restriction: open to BBA Co-op students.

ADMI 0N90

Co-op Training and Development

Framework for the development of learning objectives for students for individual work terms. Includes orientation to the Co-op experience goal setting, résumé preparation, interview skills preparation.

Lectures, presentation, site visits, 2 hours per week.

Restriction: open to BBA Co-op students.

ENTREPRENEURIAL STUDIES

ENTR 2P51

Entrepreneurship Basics

Entrepreneurs and the new venture creation process: attributes of entrepreneurs and the processes involved in successfully launching new enterprises.

Lectures, discussion, 3 hours per week.

Restriction: open to SPMA majors and Business minors until date specified in Registration guide. Students must hold a minimum 3.0 overall credits. Not open to BBA and BAcc majors.

Completion of this course will replace previous assigned grade and credit obtained in ENTR 2P91 and 3P45.

ENTR 2P91

Entrepreneurship

Theories of entrepreneurship and intrapreneurship, entrepreneurial attributes, new venture creation processes and feasibility plan preparation.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA and BAcc majors. In Winter term open to BBA Co-op majors until date specified in Registration guide.

Prerequisites: ACTG 1P12, or MGMT 1P93 and 1P96.

Completion of this course will replace previous assigned grade and credit obtained in ENTR 2P51 and 3P45.

ENTR 3P92

Creativity and the Entrepreneur

Exploration of creative and personal entrepreneurial abilities. Topics include sources of ideas and their transformation into commercial opportunities, environmental

scanning, trend identification and futurism.

Lectures, discussion, 3 hours per week.

Prerequisite: ENTR 2P51 or 2P91 (3P45).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ENTR 3P52.

ENTR 3P93

Managing Growth in Entrepreneurial Firms

Development of management concepts and techniques relevant to new and growing enterprises. Adaptations of management techniques due to limitations of management time and resources in early stage companies and changes to management approaches as companies grow.

Lectures, discussion, 3 hours per week.

Prerequisite: ENTR 2P51 or 2P91 (3P45).

Note: enrolment limited to 40 students per section.

ENTR 3P94

Corporate Entrepreneurship

Management of innovation and entrepreneurship in mid-sized and larger organizations. The role of leadership in developing and maintaining innovation and entrepreneurship and the mechanisms for stimulating organizational growth and entrepreneurial culture. How organizations respond to innovation.

Lectures, discussion, 3 hours per week.

Prerequisite: ENTR 2P51 or 2P91 (3P45).

Note: enrolment limited to 40 students per section.

ENTR 3P96

Venture Capital and the Entrepreneur

Financial challenges and strategies for new and growing ventures; evaluating and packaging new venture opportunities; importance of business angel and venture capital finance.

Lectures, discussion, 3 hours per week.

Prerequisite: ENTR 2P91 (3P45).

Note: enrolment limited to 40 students per section.

ENTR 3P98

Family Business

Theories, research and current practices relating to family business management. Topics include the importance of family businesses, the role of the founder and the entrepreneur, intergenerational succession, going outside the family, managing conflict, strategic management of the family business.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc and BBA majors with a minimum of 10.0 overall credits.

Prerequisite: OBHR 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 4P98 and 4V98.

ENTR 3P99

Behavioural and Organizational Research Methods and Designs

(also offered as OBHR 3P99)

Techniques and methods of conducting reliable and valid research including measurement and evaluation using experimental, survey, and quantitative and qualitative research methods. Emphasis on understanding and critical evaluation of empirical human resource management, organizational behaviour, human resource management, entrepreneurship and organizational theory studies.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the entrepreneurship and human resource management concentrations until the date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4P92 and 4V92.

ENTR 3V90-3V99

Topics in Entrepreneurship I

Courses in specialized areas within the discipline.

ENTR 4F90

Research Topic

Directed intensive study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

ENTR 4P10

Planning New Venture Creation

Identification and assessment of appropriate forms for commercial development of new ventures. Strategic and operational planning relevant to the creation of an entrepreneurial firm. Preparation of a formal business plan.

Lectures, case discussion, presentations, 3 hours per week.

Prerequisite: ENTR 2P51 or 2P91 (3P45).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ENTR 3P91 and 3P92.

ENTR 4P91

Research Topic

Directed study or research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: to be chosen in consultation with the supervising faculty member.

ENTR 4P93

International Dimensions of Entrepreneurship
Strategies to recognize global opportunities and to use global networks for resources, design and distribution of goods and services for customers in other parts of the world.

Lectures, case discussion, presentations, 3 hours per week.

Prerequisite: ENTR 2P51 or 2P91 (3P45).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in ENTR 4V93.

ENTR 4V90-4V99

Topics in Entrepreneurship II

Courses in specialized areas within the discipline.

ETHICS

ETHC 3P82

Ethics in Business

Philosophical ideas and ethical issues pertaining to business behaviour, business organizations and economic systems. Topics may include basic concepts of ethics; social purpose of business; rights and responsibilities of employees and employers; product and workplace safety; roles of shareholders and other stakeholders; environmental issues; morality of capitalism and other systems; cases in marketing, finance, operations, employee relations and international business.

Lectures, seminar, 3 hours per week.

Restriction: open to BAcc, BBA and combined Business majors. In Spring Session open to BBA Co-op majors until date specified in Registration guide. In Summer Session open to BAcc Co-op majors until date specified in Registration guide. Completion of this course will replace previous assigned grade and credit obtained in MGMT (PHIL) 2P82 and 3P82.

FINANCE

FNCE 2P50

Introduction to Personal Financial Planning

Financial goal setting, evaluating the financial implications of goals, preparation and analysis of personal financial statements, understanding personal credit and debt; emphasis on mortgage borrowing, investment alternatives for

individuals and families, personal taxes, basic insurance products desired for family protection, financial planning in retirement and estate planning.

Lectures, case discussion, 3 hours per week.

Restriction: not open to BAcc, BBA, BBE, BCB and combined Business majors.

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade and credit obtained in FNCE 2P95.

FNCE 2P51

Introduction to Finance

Criteria used in making investment decisions, risk concepts and the valuation of assets, a financial analysis, forecasting and leverage, the theory of interest, valuation and capital budgeting.

Lectures, discussion, 3 hours per week.

Restriction: not open to BAcc, BBA, BBE, BCB and combined Business majors.

Completion of this course will replace previous assigned grade and credit obtained in FNCE 2P91.

FNCE 2P91

Corporate Finance I

Finance function in the private and public sectors. Techniques of financial analysis. Investment in current assets, capital budgeting, valuation, risk and return.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, BCB, BTEB and combined Business majors. In Fall Term open to BAcc, BAcc Co-op and BBA Co-op majors until date specified in Registration guide.

Prerequisites: ACTG 1P11 or 1P91; ECON 1P91 and 1P92; MATH 1P01 or 1P97; MATH 1P98.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in FNCE 2P51.

FNCE 3P93

Corporate Finance II

Cost of capital, capital structure and dividend policy. Analysis of long and short term financing decisions. Introduction to options and futures, mergers and acquisitions.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, BCB and combined Business majors. In Spring Session open to BAcc Co-op majors until date specified in Registration guide. In Winter Term open to BAcc, BAcc Co-op and BBA Co-op majors until date specified in the Registration guide.

Prerequisite: FNCE 2P91.

Note: enrolment limited to 40 students per section.

FNCE 3P95

Personal Financial Planning

Tools and techniques of developing comprehensive personal financial plans. Topics include financial analysis of client goals, assessing wealth and the capacity to accomplish goals, debt management strategies, personal portfolio management, tax management strategies, risk management and insurance, financial strategies in retirement, and estate planning emphasizing wills, trusts and estate freezing.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P93.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in FNCE 2P95.

FNCE 3P96

Financial Theory

Theoretical foundations of finance and their implications for the financial decision making of both individuals and corporations. Decisions involving the valuation of fixed assets and marketable securities under conditions of certainty and uncertainty and in the context of perfect and imperfect capital markets.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration, general management concentration, international business concentration and BBE financial economics option students, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Prerequisites: FNCE 3P93 (minimum 60 percent); ECON 2P90 or 2P91.

Note: enrolment limited to 40 students per section.

FNCE 4P02

Corporate Financial Policy

Case discussions to develop and apply understanding of material in FNCE 2P91 and 3P93 to situations encountered in business decision settings.

Seminar, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96.

Note: enrolment limited to 40 students per section.

* FNCE 4P03

Financial Analysis

(also offered as ACTG 4P03)

Importance and use of financial statement information in areas such as analysis of credit, equity investment, industry and competitors, analysis of mergers and acquisitions and the firm's strategy in communicating information to capital markets.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration, BAcc and BBE financial economics option students until date specified in Registration guide.

Prerequisite: FNCE 3P93.

Note: enrolment limited to 40 students per section.

FNCE 4P04

Investment Analysis and Portfolio Management

Examination of the investment/asset allocation decision for the individual and institutional investors. Discussion of the main asset pricing models and market efficiency tests. Theoretical and practical valuation models of common stocks, preferred stocks, mutual funds and pension funds. Use of different instruments in various investment strategies such as investment, speculation, hedging and arbitrage. Techniques used by analysts to pick investments such as fundamental analysis, technical analysis and quantitative analysis.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96.

Note: enrolment limited to 40 students per section.

FNCE 4P05

International Finance

Overview of the international financial environment, the theoretical and practical aspects of the various international financial markets and the impact of the international environment on the financial decision making of the individual and the firm.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration, international business concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P93 or 3P96.

Note: enrolment limited to 40 students per section.

FNCE 4P08

Management of Financial Institutions

Organizational structure and operating practices; self-regulation, government and international regulation of financial institutions; managerial aspects associated with savings, credit liquidity, assets, liabilities and capital problems, financial planning, strategy formulation and performance evaluation. Growth of financial services on a global basis.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96.

Note: enrolment limited to 40 students per section.

FNCE 4P09

Portfolio Management

Utility theory and stochastic dominance, the efficient formation of portfolios in mean/variance framework under various assumptions, application of asset pricing models to portfolio management, the evaluation of portfolio performance and current topics in portfolio management. Students will employ computer software in the management of stock and fixed income portfolios.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA and BBA Co-op students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisites: FNCE 3P96 and 4P04.

Note: enrolment limited to 40 students per section.

FNCE 4P15

Advanced Topics in Financial Theory

Theoretical concepts are extended to include capital structure, dividend policy, leasing and mergers. May include computer applications of theory to empirical data.

Lectures, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06).

Note: enrolment limited to 40 students per section.

FNCE 4P16

Derivatives I

Introduction to options and futures markets. Pricing principles and theory of these derivative

securities as they apply to various trading and hedging strategies.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96.

Note: enrolment limited to 40 students per section.

FNCE 4P17

Derivatives II

Further refinements in the theory of derivative securities and its application to options and futures markets.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 4P16.

Note: enrolment limited to 40 students per section.

FNCE 4P18

Fixed Income Securities

Analysis of the bond markets concentrating on fixed income and fixed income derivatives markets. Risks and returns associated with investments in the markets and on how these instruments can be optimally allocated to yield successful portfolio performance.

Lectures, 3 hours per week.

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96.

Note: enrolment limited to 40 students per section.

FNCE 4P91

Research Topic

Directed intensive study or research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BAcc, BBA, BBE, BCB and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty.

Note: to be chosen in consultation with the supervising faculty member.

FNCE 4V90-4V99

Topics in Finance

Courses in specialized areas within the discipline. Restriction: open to BAcc, BBA, BBE and combined Business majors.

FNCE 4V90

Modern Financial Issues of Real Estate

Theoretical and practical issues in commercial, residential and institutional real estate to include the impact of basic industry characteristics of uncertainty, long life and data problems on the development, financing, portfolio management and legal aspects of modern real estate. More advanced financial techniques such as real option analysis will be used to assist with decision making.

Lectures, discussion, 3 hours per week.

Restriction: open to BAcc and BBA students. Prerequisite: FNCE 3P96.

Completion of this course will replace previous assigned grade and credit obtained in ENTR 4V90.

INFORMATION TECHNOLOGY

INFORMATION SYSTEMS

ITIS 1P97

Data Analysis and Business Modelling

Process of transforming input data into useful information for effective business decision making. The use of data and information to better understand the customers and the markets. Hands-on experience with computer software tools in data analysis, model development and solution analysis.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA and BTEB majors. In Fall term open to BAcc majors until date specified in Registration guide. In Winter Term open to BBA majors until date specified in the Registration guide.

ITIS 2P91

Management of Information Systems and Technology

Value and uses of information systems for business operation and management decision making for strategic advantage. Applications to business including intranet, extranet and e-commerce. Analysis, design, implementation and maintenance of information systems and the management challenges of information technology.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA and BTEB majors. In Fall term open to BBA Co-op majors until date specified in Registration guide.

Prerequisite: ITIS 1P97.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in ITIS 3P97.

ITIS 3P91

Quantitative Methods for Information Systems

Multivariate data analysis and quantitative methods in information systems and their application to business decision making. *SPSS* and/or other relevant statistical software to generate solution output. Topics include data preparation, data testing and transformation, multiple regression, principal components analysis, common factor analysis, multiple discriminant analysis, multiple and logistic regression and multivariate analysis of variance. Introduction to structural equation modelling, hierarchical linear modelling, canonical correlation or multidimensional scaling.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: ITIS 2P91 (3P97) or ACTG 3P97; MATH 1P97 and 1P98.

Note: enrolment limited to 40 students per section.

ITIS 3P98

Fundamentals of Database Design and Management

Role of databases in organizations. Business requirement analysis and use of tools and techniques for designing and administering a new database. Conceptual data modelling and emphasis on the relational database model. Application of concepts using current commercial systems. Database manipulation using SQL and other query mechanisms. Transaction management, maintenance, reliability and security. Database trends and emerging technologies.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: ITIS 2P91 (3P97) or ACTG 3P97.

Note: enrolment limited to 40 students per section.

ITIS 4F90

Research Topic

Directed intensive study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

ITIS 4P21

Data Mining Techniques and Applications

Foundations, functionalities and applications of data mining. Data mining languages and systems, data characterization, generalization and comparison, classification and prediction,

association rule mining, and clustering.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: ITIS 2P91 (3P97) or ACTG 3P97.

Note: enrolment limited to 40 students per section.

ITIS 4P22

e-Business Applications

Architecture of e-commerce applications and communications infrastructure supporting e-business. Managing e-business practices and strategic deployment of e-business for global competitive advantage.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: ITIS 2P91 (3P97) or ACTG 3P97.

Note: enrolment limited to 40 students per section.

ITIS 4P25

Systems Analysis and Design

System development life cycle and design strategies. Feasibility study, process modelling and data modelling. System prototyping, implementation, operation and maintenance and security. User involvement and training. Measurement and evaluation of system performance and emerging trends.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: ITIS 2P91 (3P97) or ACTG 3P97.

Note: enrolment limited to 40 students per section.

#ITIS 4P26

Supply Chain Management

(also offered as OPER 4P26)

Supply chain modelling and performance. Managing material, information and financial flows. Enabling roles of the Internet, technology and information. Design of supply chain networks, applications of ERP, e-commerce and e-procurement technologies and decision support systems in managing supply chains. Business process outsourcing and strategic partnerships.

Lectures, case discussions, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisites: ECON 2P91 and OPER 2P91; ACTG 3P97 or ITIS 2P91 (3P97).

Note: enrolment limited to 40 students per section.

ITIS 4P27

Advanced Topics in Information Systems

Critical debates and issues involved with IT-based information systems in organizations. Topics include the use, development and effects of modern information systems, and the social, organizational and behavioural aspects of

information systems and their application in company environments.

Lectures, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: ITIS 2P91 (3P97) or ACTG 3P97.
Note: enrolment limited to 40 students per section.

ITIS 4P91

Research Topic

Directed study or research under the supervision of a faculty member in an area of demonstrated student competence.

Restriction: open to BBA, BBE, BCB and combined business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

ITIS 4V90-4V99

Topics in Information Systems

Courses in specialized areas within the discipline. Restriction: open to BAcc, BBA, BBE and combined Business majors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits.

MANAGEMENT

MGMT 1P51

Understanding Canadian Business

Basic functional areas of: operations, marketing, human resources, information technology and accounting.

Lectures, discussion, 3 hours per week.

Restriction: open to CSBC, Public Admin Co-op, SPMA majors and Business minors until date specified in the Registration guide. Not open to BAcc, BBA and combined Business majors.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 1P92 and 1P93.

MGMT 1P52

Business and its Environment

Impact on business of political, economic, social and technological forces including legal and ethical considerations. Focus on finance and entrepreneurship with international business.

Lectures, discussion, 3 hours per week.

Restriction: open to CSBC, Public Admin Co-op, SPMA majors and Business minors until date specified in the Registration guide. Not open to BAcc, BBA and combined Business majors.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 1P91 and 1P93.

MGMT 1P93

Principles of Business

Issues relating to managing businesses in Canada. The definition and interaction of the core

functional areas of business, the legal environment and ethical issues.

Lectures, seminar, 3 hours per week.

Restriction: open to BBA, BCB and combined Business majors. In Winter Term, open to BBA, BCB and combined Business majors with a minimum of 2.0 overall credits.

Note: BAcc students with less than 10.0 credits may register. Contact Department.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 1P51, 1P52, 1P91 and 1P92.

MGMT 1P96

Principles of Communication in the Business Environment

Skill-based introduction to business problem solving. Structured case study analysis in major functional areas of business to develop critical reasoning teamwork, professionalism, report writing and business presentation skills.

Lectures, seminar, 3 hours per week.

Restriction: open to BBA, BCB and combined Business majors until the date specified in the Registration guide. After that date open to BAcc, BBA, BCB and combined Business majors. In Fall Term, open to BAcc, BBA, BCB and combine Business majors with a minimum of 2.0 overall credits.

* MGMT 2P82

Business Ethics

(also offered as PHIL 2P82)

Evaluation of the contribution of business practices, institutions and actions to the general human good. Topics include false or misleading advertising, product safety, monopolistic price schemes, effects of pollution, discriminatory hiring policies, the role of shareholders, management, government and the public in determining corporate policy and economic justice.

Lectures, seminar, 3 hours per week.

Restriction: not open to BAcc and BBA majors. Completion of this course will replace previous assigned grade and credit obtained in ETHC 3P82 and MGMT 3P82.

MGMT 3P51

Strategic Management

Identification, development and implementation of organizational strategy.

Seminar, case discussion, 3 hours per week.

Restriction: not open to BAcc, BBA or combined Business majors.

Prerequisites: FNCE 2P51, MKTG 2P51, OBHR 2P51 and OPER 2P51.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 3P80, 3P81, 4P89.

MGMT 3P98

International Business

Global business environment; development, implementation and evaluation of international business strategies; international opportunities and constraints facing Canadian businesses.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA and BTEB majors with a minimum of 8.5 overall credits. In Fall term open to BBA Co-op majors until date specified in Registration guide.

Prerequisites: ACTG 1P11, or ACTG 2P12, MGMT 1P93 and 1P96.

Note: enrolment limited to 40 students per section.

MGMT 3P99

Business Case Analysis and Action

Business case analysis in major functional areas of business, with recommended implementable and defensible strategies: rebuttal of strategies proposed by others; debates concerned with a number of business-related topics.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA and combined Business majors with a minimum of 10.00 overall credits and permission of the instructor.

Note: enrolment limited to 30 students per section.

MGMT 3V90-3V92

Topics in Management I

Courses in specialized areas within the discipline.

MGMT 4F90

Research Topic

Directed intensive study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE, BCB and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

MGMT 4P35

Export Strategy and Management

Techniques required to do business overseas. Concepts, processes and theories associated with the development and management of export markets. Investigation, analysis and reporting on various export marketing management issues.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc and BBA students.

Prerequisite: MGMT 3P98.

MGMT 4P36

Business in Developing Countries

Political, business/economics, legal and social/cultural institutions in developing countries.

Designed to recognize and contend with the unique developing country environment.
Lectures, case discussion, 3 hours per week.
Restriction: open to BAcc, BBA and combined Business majors.
Prerequisite: MGMT 3P98.
Note: enrolment limited to 40 students per section.

MGMT 4P90

Business Strategy

Industry analysis and competitive strategy emphasizing integration of functional area strategies and positioning with regard to market opportunities.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA and combined majors with a minimum of 14.0 overall credits. In Fall term open to BAcc Co-op and BBA Co-op majors until date specified in Registration guide.

Prerequisites: FNCE 3P93, MKTG 2P91, OPER 2P91 and OBHR 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 4P80 and 4P89.

MGMT 4P91

Research Topic

Directed study or research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty.

Note: to be chosen in consultation with the supervising faculty member.

MGMT 4P93

e-Business Strategy

Business models for the web. Business webs: partner networks of producers, service providers, suppliers, infrastructure companies and customers, all linked via digital channels. Mapping, analysis and critique of emerging models.

Lectures, seminar, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, CSBC, BCB and combined Business majors with a minimum of 10.0 overall credits.

Note: enrolment limited to 40 students per section

Completion of this course will replace previous assigned grade and credit obtained in MGMT 4V93.

MGMT 4P94

Transnational Business Management

Multinational firms' operation in a global economy. Motivations and mentalities of internationalization; creation of layers of competitive advantage over multinational markets; alliance and knowledge management.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA and combined Business majors with a minimum of 10.0 overall credits.

Prerequisite: MGMT 3P98.

Note: enrolment limited to 40 students per section.

MGMT 4P97

Advanced Topics in Business and Society

Topics may include neoclassical economics and the social role of business, environmentalism and the "greening" of business, social issues relating to downsizing, automation and the future of work, corporate philanthropy, employment equity and pay equity, the relation of business and government.

Seminar, case discussion, student presentations, 3 hours per week.

Prerequisite: ETHC 3P82 (MGMT 3P82) or MGMT 2P82.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in MGMT 4V97.

MGMT 4P99

Management Consulting

Theoretical perspectives and approaches, conditions for successful intervention, establishing and managing the client relationship, triggering and managing change, politics and group processes, effective communication and ethics.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA and combined Business majors with a minimum of 14.0 overall credits.

Prerequisites: FNCE 3P93, MKTG 2P91, OBHR 2P91 and OPER 2P91.

Note: enrolment limited to 40 students per section.

MGMT 4V90-4V99

Topics in Management II

A course structured by a faculty member having specialized interest in an area within the discipline.

Restriction: open to BBA, BBE, BCB and combined Business majors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits.

MARKETING

MKTG 2P51

Marketing Basics

Introduction to basics of marketing.

Lectures, 3 hours per week.

Restriction: open to CSBC majors and Business minors until date specified in Registration guide. Not open to BAcc, BBA, BBE, SPMA and combined Business majors.

Prerequisite: MGMT 1P51 or 1P93.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P91, RECL (TOUR) 3P40 and SPMA 3P65.

MKTG 2P52

General Marketing Management

Exploring the marketing management process.

Lectures, 3 hours per week.

Restriction: open to CSBC majors until date specified in Registration guide. Not open to BAcc, BBA, BBE, SPMA and combined Business majors.

Prerequisite: MKTG 2P51.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P91, MKTG 3P24, MKTG (OEVI) 4P92, OEVI 4V92, RECL (TOUR) 3P40 and SPMA 3P65.

MKTG 2P91

Introduction to Marketing

Characteristics of the marketing function in Canada, basic marketing concepts and the marketing function in organizations.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, BCB, BTEB and combined Business majors. In Fall Term open to BAcc, BAcc Co-op and BBA Co-op majors until date specified in Registration guide. Students must have a minimum of 2.5 overall credits.

Prerequisite: ACTG 1P12 or 1P91.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P51, 2P52 and 3P22.

MKTG 3P24

Marketing Management

Marketing concepts in decision-making and the role of the marketing manager.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, BCB and combined Business majors. In Winter Term open to BBA Co-op majors until date specified in Registration guide.

Prerequisite: MKTG 2P91.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P52.

MKTG 3P96

Marketing Research

Market research as a managerial tool including scientific method, research and questionnaire design, experimentation, sample selection, data collection and research procedure.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration and general management concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors.

Prerequisite: MKTG 2P52 or 3P24.

Note: a fieldwork assignment will be required. Enrolment limited to Note: enrolment limited to 40 students per section.

MKTG 4F90

Research Topic

Directed intensive study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

MKTG 4P23

Marketing Communications

Management problems in the formulation, implementation and evaluation of programs in the areas of advertising, selling and promotional activities.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

MKTG 4P25

Marketing Strategy

Topics include analysis of industry, customer, market and competitive environments, sources of competitive advantage and methods of allocating resources to new and established products. The strategic role of market evolution and cost dynamics.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

MKTG 4P26

Sales Management

Management of the sales force and the role of the sales function in marketing strategy. Topics include the interface between sales strategy and marketing strategy; duties of the sales manager with respect to sales force selection, training, compensation and evaluation; time and territory management; sales forecasting; the impact of new technology on the sales management function; career paths in sales management.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

MKTG 4P28

Retail Management

Managerial role and its effect on retailing decisions. Institutional structure of retailing and its past and probable future patterns. Marketing strategies and interrelationships among suppliers, customers and members of the distribution channels.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

MKTG 4P29

Business to Business Marketing

Application of marketing principles to business products and services to other companies, government bodies and institutions. Unique aspects of business marketing including the shifting of power in buyer-seller relationships, shortness of distribution channels emphasizing personal selling. Types of business customers and increasingly important role of B2B commerce in the business marketplace.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

MKTG 4P31

Consumer Behaviour

Application of behavioural science concepts to marketing; the interactions of consumers, sellers, public policy makers and researchers.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

MKTG 4P33

International Marketing

Marketing concept and individual components of the marketing mix in the context of the international environment; the differences between international and domestic marketing and how they affect the planning, organization and control of marketing programs.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration and international business concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisites: MKTG 3P24 and MGMT 3P98.

Note: enrolment limited to 40 students per section.

MKTG 4P34

Marketing Financial Services

Application of marketing principles to financial services.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration and international business concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: site visits to Canadian and US financial institutions. Enrolment limited to 40 students per section.

MKTG 4P36

Marketing Channel Management

Channels from the manufacturer to end-users including structure and design, selecting channel members and managing channel relationships for superior performance.

Restriction: open to BBA students approved to the marketing concentration and general management concentration, until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined

business majors. Students must have a minimum of 10.0 overall credits.
Prerequisite: MKTG 2P52 or 3P24.
Note: enrolment limited to 40 students per section.

MKTG 4P91

Research Topic

Directed study or research under the supervision of a faculty member in an area in which the student has shown particular competence.
Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.
Note: to be chosen in consultation with the supervising faculty member.

MKTG 4P92

Wine Marketing

(also offered as OEVI 4P92)

Understanding the wine consumer, segmentation, positioning, marketing mix, marketing research, marketing strategy, domestic and international wine marketing issues.

Lectures, case discussion, 3 hours per week.

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P52, 4V92, OEVI 4V92 and SPMA 3P65.

MKTG 4P93

Internet Marketing

New marketing as enhanced, enabled and challenged by rapidly-evolving electronic and interactive media and communications methods. Opportunities provided by the Internet; exposure to the Internet marketing sector. Topics include personalization, permission marketing, traffic building, brand development and web measurement.

Lectures, class discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration until date specified in Registration guide. After that date open to BAcc, BBA, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 4V93.

MKTG 4P94

New Product Development

Examination of process through which new products are designed, developed and commercialized. Integration of different functions including design, marketing, packaging and finance in the development of a successful new product.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 4V94.

MKTG 4P95

Services Marketing

Nature and characteristics of services, their marketing and service quality.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 2P52 or 3P24.

Note: enrolment limited to 40 students.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 4V95.

MKTG 4P98

Pricing

Price strategies and interaction of price with other marketing mix variables. Normative management practice and underlying conceptual theories and models involved in pricing decisions. Topics include customer-driven pricing, relevant costs, price sensitivity, managing competitive information, negotiated prices, segmented pricing, pricing psychology, ethics and price law.

Lectures, 3 hours per week.

Restriction: open to BBA students approved to the marketing concentration, until date specified in the Registration Guide. After that date open to BAcc, BBA, BBE, CSBC, BCB and combined majors. Students must have a minimum of 10.0 overall credits.

Prerequisites: MKTG 3P24 and 3P96.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 4V98.

MKTG 4V90-4V99

Topics in Marketing

Courses in specialized areas within the discipline.
Restriction: open to BAcc, BBA, BBE and combined Business majors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits.

ORGANIZATIONAL BEHAVIOUR

OBHR 2P51

Basics of Organizational Behaviour and Design
Micro and macro aspects of formal organizations from a behavioural perspective. Theories, research and current practices in the management of human resources and the design of organizations. Topics include motivation, leadership, group dynamics, organizational goals and effectiveness, environment and other contingencies and organizational culture.

Lectures, case discussion, 3 hours per week.

Restriction: open to CSBC majors and Business minors until specified date in Registration guide. Not open to BAcc, BBA, SPMA and combined Business majors.

Prerequisite: MGMT 1P51 or 1P93.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 2P91, 3P42, RECL 2P10, 2P90, 3P10, 3P20, SPMA 2P05, 2P21 and 3P21.

OBHR 2P52

Basics of Human Resources Management and Industrial Relations

Human resource management and industrial relations in the workplace. Importance of legislation and its relationship to rights and to various systems associated with both human resource management and employee's industrial relations.

Lectures, case discussion, 3 hours per week.

Restriction: open to CSBC majors until date specified in the Registration guide. Not open to BAcc, BBA, BBE, BCB, SPMA and combined Business majors.

Prerequisite: OBHR 2P51 or 2P91.

Students will not receive earned credit for OBHR 2P52 if OBHR 3P96, 3P97 or 4P63 have been successfully completed. Note: Completion of this course will replace previous assigned grade and credit obtained in RECL 2P10, 2P90, 3P10, 3P20, SPMA 2P05 and 2P21.

OBHR 2P91

Organizational Behaviour

Micro aspects of formal organizations from a behavioural science perspective. Theories, research and current practices in the management of human resources. Topics may include motivation, leadership, group dynamics, interpersonal communication, conflict, stress management and organizational theory and design.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, BCB, BTEB and combined Business majors. In Fall Term open to BAcc, BAcc Co-op and BBA Co-op majors until date specified in Registration guide.

Prerequisite: ACTG 1P12, or MGMT 1P93 and 1P96.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 2P51.

OBHR 3P42

Organization Theory and Design

Macro aspects of formal organizations from a behavioural perspective. Theories, research and current practices in organizational design and redesign. Topics include the development of management thought, organizational goals, organizational effectiveness and efficiency; environment, technology, structural alternatives, power and politics in organizations and organizational culture.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BBE, BCB and combined Business majors. In the Winter Term open to BBA Co-op majors until date specified in the Registration guide.

Prerequisite: OBHR 2P91.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 2P51.

OBHR 3P96

Labour Relations

Labour management relations in Canada emphasizing the collective bargaining process, the grievance and arbitration process and other aspects of collective agreement administration.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4P63.

OBHR 3P97

Human Resource Management

Recruitment, selection and training, wage and salary administration and the design and administration of benefit programs.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration and general management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: OBHR 2P91.

Note: enrolment limited to 40 students per section.

OBHR 3P98

Occupational Health and Safety

Legal, technical and management issues regarding employee health and safety.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until the date specified in the Registration guide. After that date open to BAcc, BBA, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 2P52 or 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4P98 and 4V98.

* OBHR 3P99

Behavioural and Organizational Research Methods and Designs

(also offered as ENTR 3P99)

Techniques and methods of conducting reliable and valid research including measurement and evaluation using experimental, survey and quantitative and qualitative research methods. Emphasis on understanding and critical evaluation of empirical, organizational behaviour, human resource management, entrepreneurship and organizational theory studies.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management and entrepreneurship concentrations until the date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4P92 and 4V92.

OBHR 4F90

Research Topic

Directed intensive study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

OBHR 4P61

Organizational Development: Individual and Interpersonal Skills

Theory and practice of individual and interpersonal skills needed to affect development and change in organizations emphasizing small

group experiential exercises for skill development. *Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits. Prerequisite: one of OBHR 2P52, 3P42, 3P97. Note: enrolment limited to 40 students per section.

OBHR 4P65

Negotiating in Organizations

Causes and consequences of conflict in organizations, and strategies and tactics to manage conflict. Emphasis on the use of bargaining and negotiation skills to manage conflict and resolve disputes.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P42 or 3P97.

Note: enrolment limited to 40 students per section.

OBHR 4P66

Compensation Management

Compensation theory and practice, design and administration of compensation and reward systems. Pay and benefits determination; job and market evaluation; use of individual, group and organizational incentives.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P97 or permission of the instructor.

Note: enrolment limited to 40 students per section.

OBHR 4P67

Training and Development

Three sequential steps in the training and development process in organizations: assessment of training needs, development and implementation of the training program and evaluation of the training program. Training methods used in employee orientation, skill training and management development in the context of adult education.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must

have a minimum of 10.0 overall credits.
Prerequisite: OBHR 3P97.
Note: enrolment limited to 40 students per section.

OBHR 4P68

Leadership

Theoretical and practical aspects of leadership to familiarize students with personal leadership capacities.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: one of OBHR 2P52, 3P42, 3P97.
Note: enrolment limited to 40 students per section.

OBHR 4P69

Recruitment and Selection

Personnel selection, placement and performance evaluation in organizations in the context of human rights/equal employment legislation. Recruitment and selection strategies and the validation of selection, placement and performance evaluation practices.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P97.

Note: enrolment limited to 40 students per section.

OBHR 4P72

Labour Law

Federal and provincial labour statutes, the practices of federal and provincial labour relations boards and ministries of labour and the common law of employer employee relations. The impact of these statutes, regulations, boards and ministries on management, unions and employees.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: one of OBHR 2P52, 3P42, 3P97.
Note: enrolment limited to 40 students per section.

OBHR 4P90

International Organizational Behaviour

Understanding behaviour in global organizations. Topics may include cultural differences, managing decision-making and

personnel transitions, international negotiations and organization design for global competition.
Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration and international business concentration until date specified in the Registration guide. After that date open to BAcc, BBA, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: one of OBHR 2P52, 3P42, 3P97.
Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4V90.

OBHR 4P91

Research Topic

Directed study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA and combined business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising Faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

OBHR 4P93

Planned Organizational Change

Theories, research and practice in the area of planned organizational change emphasizing the organization as a whole and the interdependency of its elements.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in Registration guide. After that date open to BAcc, BBA, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: one of OBHR 2P52, 3P42, 3P97.
Note: enrolment limited to 40 students.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4V93.

OBHR 4P94

Human Resources Planning

Human resource strategies and their support of organizational strategies. Identification of business strategies, determination of appropriate human resource strategies, assessment of current human resource assets and planning future human resource requirements of the firm.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until the date specified in the Registration guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P97.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4V91.

OBHR 4P96

Administration of the Collective Agreement

Issues faced by employees, union representatives, supervisors and managers in the day-to-day administration of collective agreements. Types of disputes include discipline and discharge, seniority related disputes, compensation, management rights and the reasons why some complaints cannot be decided by arbitrators.

Seminar, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P96 (4P63).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 4V96.

OBHR 4V90-4V99

Topics in Organizational Behaviour and Human Resources

Courses in specialized areas within the discipline. Restriction: open to BBA, BBE and combined Business majors with a minimum of 10.0 overall credits.

OBHR 4V92

2009-2010: Managing Diversity

Diversity theories; opportunities and dilemmas managers face when working with diverse populations.

Lectures, discussion, 3 hours per week.

Restriction: open to BBA students approved to the human resource management concentration until date specified in the Registration guide. After that date open to BAcc, BBA and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P97.

Note: enrolment limited to 40 students per section.

OPERATIONS MANAGEMENT

OPER 2P51

General Operations Management

Operations management and its interactions with other functional areas. Topics include process analysis, forecasting, scheduling, materials management, quality assurance and capacity planning.

Lectures, case discussion, 3 hours per week.

Restriction: not open to BAcc, BBA, BBE, BCB or combined Business majors.

Prerequisite: ACTG 1P91 or MATH 1P98.

Completion of this course will replace previous assigned grade and credit obtained in OPER 2P91.

OPER 2P91

Operations Management

Improving efficiency and quality in organizations. Service and product design, process design, managing technology, capacity planning, facility location and design, resource planning, inventory management, scheduling, improving productivity, managing quality and various tools for decision-making.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BCB, BTEB and combined Business majors. In the Fall Term open to BAcc and BAcc Co-op majors and in the Winter Term open to BBA and BBA Co-op majors until date specified in Registration guide. Prerequisites: ACTG 1P12 or 2P12; ITIS 1P97. Completion of this course will replace previous assigned grade and credit obtained in OPER 2P51.

OPER 3P91

Advanced Operations Management

Skills and intuition development for approaching various operational challenges. Tools for more advanced analysis and software for improving efficiency and quality.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: OPER 2P91.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade and credit obtained in OPER 3P31.

OPER 3P92

Project Management

Concepts and techniques for managing projects. Role of the project manager, strategic issues, resource allocation, conflict management, planning, budgeting, scheduling and controlling projects.

Lectures, case discussion, 3 hours per week.

Restriction: open to BBA students approved to the operations management and information systems concentration until the date specified in the Registration guide. After that date open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: OPER 2P91.

Note: enrolment limited to 40 students per section.

OPER 3P93

Quality Management

Effectively managing quality, combining theory and practice to formulate models for quality improvement and control. Statistical tools, techniques for process re-engineering and improvement, and designing quality into products and services.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: OPER 2P91.

Note: enrolment limited to 40 students per section.

OPER 4F90

Research Topic

Directed intensive study and research under the supervision of a faculty member in an area in which the student has shown particular competence.

Restriction: open to BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

Note: topic to be chosen in consultation with the supervising faculty member.

* OPER 4P26

Supply Chain Management

(also offered as ITIS 4P26)

Supply chain modelling and performance. Managing material, information and financial flows. Enabling roles of the Internet, technology and information. Design of supply chain networks, applications of ERP, e-commerce and e-procurement technologies and decision support systems in managing supply chains. Business process outsourcing and strategic partnerships.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisites: ECON 2P91 and OPER 2P91; ACTG 3P97 or ITIS 2P91 (3P97).

Note: enrolment limited to 40 students per section.

OPER 4P31

Simulation of Business Systems

Science and art of business modelling, using computer software with animation. Models for operations, information systems, finance, marketing and other types of systems. Technical aspects of simulation blended with the practical realities of working with real data in real situations. Implementation of the entire simulation modelling process, including data collection, model development, analysis of outputs and how to improve on existing system configurations and/or decision rules.

Lectures, case discussion, lab, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisite: OPER 2P91.

Note: enrolment limited to 40 students per section.

OPER 4P41

Management Science

Emphasis on modelling business issues. Topics include network optimization, integer, nonlinear and goal programming, queuing models and computer simulation.

Lectures, case discussion, 3 hours per week.

Restriction: open to BAcc, BBA, BCB and combined Business majors.

Prerequisites: ECON 2P91 and OPER 2P91.

Note: enrolment limited to 40 students per section.

OPER 4P91

Research Topic

Directed study or research under the supervision of a faculty member in an area of demonstrated student competence.

Restriction: open to BBA, BBE, BCB and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member

Note: topic to be chosen in consultation with the supervising faculty member.

OPER 4V90-4V99

Topics in Operations Management

Courses in specialized areas within the discipline. Restriction: open to BAcc, BBA, BBE and combined Business majors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits.

Business Economics

This program is offered through the Department of Economics

Co-ordinator
Joseph Kushner

Director, Co-operative Programs
Cindy Dunne

General Information

Administrative Assistant
Karen Phillips

905-688-5550, extension 4697
Plaza 427
<http://www.brocku.ca/economics/>

Business economists provide analyses and recommendations to policy makers in both the private and public sectors. The program seeks to develop the skills and knowledge required for such tasks. Possible fields of employment include financial analysis, market research and managerial positions in the private and public sectors.

Business Economics offers a four-year program of study leading to an Honours BBE degree designed for students who wish to combine the study of economics and business. There are two streams: Financial Economics for those who wish to combine economics with finance and Consumer Economics for those who wish to combine economics with marketing. Students must declare their stream by the end of Year 2.

The Business Economics Co-op program combines academic and work terms over a period of four and one-half academic years. Students spend two years in an academic setting studying the functional areas of business economics prior to taking the first work placement. In addition to the current fees for courses in academic study terms, students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue in the Business Economics Co-op program is based on the student's major and non-major averages. A student with a minimum 70 percent major average and a minimum 60 percent non-major average may continue. A student with a major average lower than 70 percent will not be permitted to continue in the Business

Economics Co-op program. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-op Admissions Committee.

The Business Economics Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Computer Literacy is required for some economics. Students who are not computer literate should consider taking APCO 1P01 or 1P93 as an elective.

Graduates of the Business Economics program may normally pursue graduate studies in Economics or Business Economics without taking additional courses.

Program Notes

1. ECON 1P91 and 1P92 may be taken concurrently or in either order.
2. WRIT 1P93 is recommended.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Financial Economics stream

- Year 1
- ACTG 1P91
 - ECON 1P91 and 1P92
 - one of MATH 1P01, 1P05, 1P97
 - MATH 1P98
 - one Humanities context credit
 - one Sciences context credit
 - one-half non-business elective credit (see program note 2)

- Year 2
- ACTG 2P12
 - ECON 2P21, 2P22, 2P30, 2P54 and 2P90
 - FNCE 2P91
 - MKTG 2P91
 - one non-business elective credit

- Year 3
- ECON 3P03, 3P04, 3P10, 3P21, 3P22, 3P90 and 3Q91
 - FNCE 3P93 and 3P96
 - one-half non-business elective credit

- Year 4
- ECON 3P92, 3P95, 4P13 and 4P14
 - one and one-half credits from FNCE 4P03, 4P04, 4P05, 4P08, 4P09, 4P15, 4P16, 4P17, 4P18
 - one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
 - one non-business elective credit

Consumer Economics stream

- Year 1
- ACTG 1P91
 - ECON 1P91 and 1P92
 - one of MATH 1P01, 1P05, 1P97
 - MATH 1P98
 - one Humanities context credit
 - one Sciences context credit
 - one-half non-business elective credit

- Year 2
- ACTG 2P12
 - ECON 2P21, 2P22, 2P30, 2P54 and 2P90
 - FNCE 2P91
 - MKTG 2P91
 - one non-business elective credit (see program note 2)

- Year 3
- ECON 3P06, 3P10, 3P21, 3P22, 3P90 3P92 and 3Q91
 - one-half ECON credit numbered 2(alpha)90 or above
 - MKTG 3P24
 - one-half non-business elective credit

- Year 4
- ECON 3P95, 4P13 and 4P14
 - MKTG 3P96, 4P25 and 4P31
 - one-half MKTG credit numbered 4(alpha)00 or above
 - one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
 - one non-business elective credit

Business Economics Co-op

Students admitted to the Business Economics Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- ACTG 1P91 and 2P12
- ECON 1P91 and 1P92
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit

Year 2

- ECON 0N90, 2P21, 2P22, 2P30, 2P54, 2P90, 3P21 and 3P22
- FNCE 2P91 and 3P93
- one-half non-business elective credit (see program note 2)

Year 3

Fall Term:

- ECON 3P03, 3P10, 3P90 and 3Q91
- FNCE 3P96

Winter Term:

- ECON 0N01

Spring/Summer Sessions:

- one-half ECON credit
- ECON 3P04
- MKTG 2P91 or one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
- one non-business elective credit

Year 4

Fall Term:

- ECON 0N02

Winter Term:

- ECON 3P95, 4P13 and 4P14
- one of FNCE 4P03, 4P04, 4P05, 4P08, 4P09, 4P15, 4P16, 4P17 and 4P18
- MKTG 2P91 or one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR (not taken in Year 3)

Spring/Summer Sessions:

- ECON 0N03

Year 5

Fall Term:

- ECON 3P92
- one credit from FNCE 4P03, 4P04, 4P05, 4P08, 4P09, 4P15, 4P16, 4P17 and 4P18
- one-half ECON credit numbered 2(alpha)90 or above
- one-half non-business elective credit

Description of Courses

See relevant calendar entry for course descriptions.

Canadian Studies

Director

Marian Bredin

Assistant Professor

Renée Lafferty (History)

Academic Adviser

Alisa Cunningham

General Information

Administrative Assistant

Sylvia Barlow

905-688-5550, extension 4029
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<http://www.brocku.ca/canstudies/>

The Centre for Canadian Studies offers an opportunity to study Canadian culture and society from a variety of disciplinary perspectives, with co-operating faculty from Communication, Popular Culture and Film, Dramatic Arts, Economics, English Language and Literature, Modern Languages, Literatures and Cultures, Geography, History, Political Science, Sociology and Visual Arts.

Students take required interdisciplinary Canadian Studies (CANA) courses along with a number of Canada-centred courses offered by other departments emphasizing the unique nature of the Canadian experience, and upon the value and practice of combining disciplinary approaches in the study of culture and society.

CANA core courses offered in years 1, 2 and 3 are designed to introduce students to interdisciplinary studies in a progressive manner. The year 1 course is taught by one instructor and examines the development of Canadian culture from the perspectives of disciplines within the Humanities. Year 2 and 3 courses are interdisciplinary courses which combine Humanities and Social Science perspectives on a particular topic or issue related to the study and understanding of Canada.

The Centre for Canadian Studies offers combined major programs leading to a BA (Honours or Pass) and a Minor for students in other disciplines. Canadian Studies core courses may also be taken as electives by students in other degree programs. Canadian Studies may be combined with any other discipline or program in the Humanities or Social Sciences which offer a combined major program.

Language Requirement for Humanities Majors

Students in the Centre for Canadian Studies are required to complete one credit in French.

Program Notes

1. CANA students must take one credit in FREN (required in some combined major programs) or one credit related to French Canada as part of their degree program. Eligible courses appear with an asterisk (*) in the list of approved Canadian Studies courses.

2. Students in a combined major program are designated "Humanities" or "Social Sciences" students according to the designation of the co-major discipline. Humanities students must fulfill the language requirement of the co-major discipline in which they are working.

3. One credit from COMM 1F90, ECON 1P91 and 1P92, ENGL 1F91, 1F95, 1F97, GEOG 1F90, HIST 1F95, 1F96, LABR 1F90, SOCI 1F90 strongly recommended for Political Science co-majors.

4. COMM 1F90, ECON 1P91 and 1P92, ENGL 1F91, 1F95, 1F97, GEOG 1F90, HIST 1F95, 1F96, LABR 1F90 or SOCI 1F90 strongly recommended.

5. It is strongly recommended that all CANA students complete one course in Canadian history, one course in Canadian politics, one course in Canadian literature and one Canadian-related DART, FILM or VISA course as part of their combined major program of study.

6. To encourage interdisciplinary study, CANA credits must be chosen from approved courses outside the student's co-major.

7. Each student should meet with the Humanities Academic Adviser and the Chair/Director of the co-major discipline before the end of the first year of study, to ensure that his or her choice of courses meets the criteria for the combined major degree.

8. Students contemplating a thesis or project must consult the Director or academic adviser at the end of year 3.

9. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00

to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- CANA 1F91
- POLI 1F90
- one credit from the co-major discipline (see program note 3)
- one Sciences context credit
- one elective credit (see program note 4)

Year 2

- CANA 2P91 and 2P92
- one credit numbered 2(alpha)00 or above from the list of approved Canadian Studies courses (see program note 7)
- two credits from the co-major discipline
- one language credit (see language requirement; see program note 2)

Year 3

- CANA 3P16
- CANA 3P15 or 3P17
- one credit numbered 2(alpha)90 or above from the list of Canadian Studies approved courses (see program note 7)
- two credits from the co-major discipline
- one elective credit (see program note 9)

Year 4

- CANA 4P00 and 4P90
- one credit numbered 3(alpha)90 or above from the list of approved Canadian Studies courses (see program note 7)
- two credits from the co-major discipline
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Minor in Canadian Studies

Students in other disciplines can obtain a Minor in Canadian Studies within their degree program by completing the following courses with a minimum 60 percent overall average:

- CANA 1F91, 2P91, 2P92 and 3P16
- CANA 3P15 or 3P17
- one credit from the list of approved Canadian Studies credits numbered 2(*alpha*)90 or above

Approved Canadian Studies Courses Offered by Other Departments/Centres

Note: As many of the courses listed below have prerequisites, students should plan their programs in advance.

*Courses which may be used to fulfill the French/French Canadian requirement.

ABST 2F90
Studies in Aboriginal History I

ABST 2F96
Studies in Aboriginal Culture I

CHSC 2P21
The Health of Canadian Society

CHYS 3P27
Policies of Childhood and Youth: Canadian Perspectives

CHYS 3P39
Children, Youth and the Law

COMM 3P14
Media Industries
(also offered as PCUL/SOCI 3P14)

COMM 4P17
Communication and Cultural Policy
(also offered as PCUL 4P17)

COMM 4P55
Advertising, Mass Media and Culture
(also offered PCUL 4P55)

DART 2P96
Aboriginal Theatre
(also offered as ABST 2P96)

DART 2P97
Canadian Theatre

ECON 2P28
Economics of the Environment
(also offered as TREN 2P28)

ECON 2P54
Canadian Economics Issues
(also offered as LABR 2P54)

ECON 2V60-2V69
Topics in Canadian Economic Policy

ECON 3P19
Regional Economics

ENGL 2P64
Early Canadian Literature

ENGL 2P65
Modern Canadian Literature from 1920 to the Present

ENGL 2P66
Contemporary Canadian Literature

ENGL 3P66
Filming Canadian Literature

ENGL 3V60-3V69
Special Topics in Canadian Literature

ENGL 4P64
Contemporary Canadian Fiction: The Short Story

ENGL 4P65
Space and Place in Modern and Contemporary Canadian Poetry

ENGL 4V60-4V69
Topics in Contemporary Canadian Writing

FILM 2P56
Canadian Cinema
(also offered as COMM/PCUL 2P56)

FILM 3P21
Canadian Television
(also offered as COMM/PCUL 3P21)

FILM 3P56
Issues in Canadian Cinema
(also offered as COMM 3P56)

*FREN 1F00
Introductory French I

*FREN 1F50
Introductory French II

*FREN 1F90
Intermediate French

*FREN 2F00
Grammar and Composition

*FREN 3P73
Canadian Literature in French to 1939

*FREN 3P74
Canadian Literature in French from 1939 to 1960

*FREN 3P96
Contemporary Canadian Theatre in French

GEOG 2P03
Urban Geography

GEOG 2P06
Cultural and Historical Geography
(also offered as PCUL 2P06)

GEOG 2P50
Geography of Canada

GEOG 3P74
Geography and Gender
(also offered as WISE 3P74)

HIST 2P01
Pre-Confederation Canada

HIST 2P02
Post-Confederation Canada

HIST 2Q90
Canada: Nations Transformed

HIST 2Q91
Modern Canada

HIST 2Q93
Women in North America to 1865
(also offered as WISE 2Q93)

HIST 2Q94
Women in North America: 1865 to the Present
(also offered as WISE 2Q94)

HIST 2Q97
Native - Newcomer Relations in Canada

HIST 3P08
God's Country: Religion in North America before 1850

HIST 3P09
The Church Besieged: Religion in North America after 1850

HIST 3P35
North America's First Nations

HIST 3P74 Canadian Immigration and Ethnic History	POLI 3P17 Politics and the Mass Media in Canada (also offered as COMM 3P17)	POLI 4V10-4V19 Issues in Canadian Politics
HIST 3P75 Canadian Labour History (also offered as LABR 3P75)	POLI 3P18 Law and Politics	POLI 4V60-4V69 Selected Topics in Canadian Public Policy
HIST 3P76 Canadian Regional History	POLI 3P28 Canadian Foreign Policy	SOCI 2P22 Education and Equity
HIST 3P77 The Canadian West	POLI 3P66 Environmental Policy, Law and Administration (also offered as TREN 3P66)	SOCI 2P32 In and Out of Work in the Global Economy (also offered as LABR 2P32)
HIST 3P98 French Canada	POLI 3P67 Issues in Canadian Public Policy (also offered as LABR 3P67)	SOCI 3P36 Critical Issues in Contemporary Society
HIST 3V90 - 3V94 Topics in Canadian History	POLI 3P98 Public Sector Management	SOCI 3P46 Aboriginal Peoples in Canadian and Global Perspectives (also offered as ABST 3P46)
LABR 2P03 Labour Law and Labour Unions (also offered as POLI 2P03)	POLI 4P10 Issues in Local Government	SOCI 3P47 Racism and Anti-Racism
LABR 2P34 Contemporary Labour Movements (also offered as SOCI 2P34)	POLI 4P12 Canadian Civil Society, Institutions and Political Culture	SOCI 3P51 Gender and Society (also offered as WISE 3P51)
MUSI 3P91 History of Music in Canada	POLI 4P14 Federalism in Canada	SOCI 3P55 Sociology of Professional Wrestling (also offered as SPMA 3P55)
OEVI 4P93 The Business of Grape Growing and Wine Making	POLI 4P15 Canadian Political Economy (also offered as LABR 4P15)	SOCI 3P58 Women and Aging (also offered as WISE 3P58)
PCUL 2P21 Canadian Popular Culture (also offered as COMM/FILM 2P21)	POLI 4P19 The Canadian Judicial Process	SOCI 3P66 Social Movements (also offered as LABR 3P66)
POLI 2F12 The Government and Politics of Canada	POLI 4P22 Canada and the Developing World	SOCI 3P71 The State and Society
POLI 2Q98 Introduction to Canadian Public Administration (also offered as COMM 2Q98 and LABR 2Q28)	POLI 4P38 Nationalism and Ethnic Politics	SOCI 3P82 Women and Crime
POLI 3P05 Canadian Political Thought	POLI 4P50 Machinery of Government	SOCI 4P33 Law and Society
POLI 3P11 Local Government	POLI 4P52 Managing the New Public Organization	SOCI 4P70 Social Issues in the Community
POLI 3P12 Canadian Political Parties and Electoral Behaviour	POLI 4P54 Business-Government Relations (also offered as LABR 4P54)	SOCI 4Q41 Social Policy (also offered as WISE 4Q41)
POLI 3P13 The Politics of Labour (also offered as LABR 3P13)	POLI 4P66 Politics of Environmental and Resource Scarcity	STAC 2P93 Critical Practice in the Fine and Performing Arts (also offered as IASC 2P93)
POLI 3P15 Politics in Ontario	POLI 4P71 Tutorial in Canadian Politics	TREN 4P19 Environmental Heritage

VISA 2P50
Canadian Identities: From Nouvelle France to the Mid-20th Century

VISA 2P51
Canadian Art Since 1960: Contemporary Trends

WISE 2P99
Canadian Women in a Global Context
(also offered as INTC/SOCI 2P99)

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

CANA 1F91
Introduction to Canadian Studies
Interdisciplinary examination of critical themes in Canadian culture, history, society and citizenship from the contact period to the present drawing on artistic, political and historical texts, inquiring into the development of, and challenges to, the Canadian nation.
Lectures, seminar, 3 hours per week.

CANA 2P86
Women in the Economy
(also offered as ECON 2P86, LABR 2P86, SOCI 2P86 and WISE 2P86)
Women in the Canadian labour market. Topics include the allocation of time between the household and the labour market, gender segregation in the work place, how earnings are determined, causes of occupational and earning difference by gender, role of investment in education and discrimination, recent developments in the labour market and their impact on women and men, selected policy issues.
Lectures, 3 hours per week.
Restriction: students must have a minimum of 4.0 overall credits.

CANA 2P91
Culture and Power in Canada I: Cultural Communities

Interdisciplinary examination of Canadian culture and society employing a variety of methods and perspectives. Approaches drawn from cultural studies, social theory and critical analysis applied to examples of Canadian literature, art, cinema and popular culture. Topics may include dynamics of race, class and gender, linguistic diversity, multiculturalism, ethnic relations and cultural appropriation.
Lectures, seminar, 3 hours per week.
Note: CANA 1F91 recommended.
Completion of this course will replace previous assigned grade and credit obtained in CANA 2F91.

CANA 2P92
Culture and Power in Canada II: Cultural Institutions
Interdisciplinary examination of Canadian culture and society employing a variety of methods and perspectives. Approaches drawn from cultural studies, social theory and critical analysis applied to examples of Canadian literature, art, cinema and popular culture. Topics may include cultural industries and institutions, cultural and media policies, Canada-US relations and examination of Canadian myths.
Lectures, seminar, 3 hours per week.
Note: CANA 1F91 recommended.
Completion of this course will replace previous assigned grade and credit obtained in CANA 2F91.

CANA 3M90-3M99
Selected Interdisciplinary Studies
Application of principles of interdisciplinary studies and techniques to the study of Canada.

CANA 3P15
A Foreign Prospect: Canada from Beyond its Borders
Perceptions of Canada and Canadians originating outside of the nation's borders, topics include Aboriginal relations, government, the environment, warfare, the arts and cultural conflict. From first contact to the contemporary period, drawing upon fictional, historical, political and artistic interpretations of the nation.
Lectures, seminar, 3 hours per week.
Prerequisite: CANA 1F91 or permission of the instructor.

CANA 3P16
Politics in Québec
(also offered as POLI 3P16)
Québec's political, social and economic evolution since 1945. Topics may include old and new varieties of nationalism, the Quiet

Revolution, the changing roles of church and state, the decline of the anglophone minority, Québec's impact on Canadian Federalism.
Lectures, seminar, 3 hours per week.
Prerequisite: one of CANA 2P91, 2P92 (2F91), one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

CANA 3P17
Unity in Diversity
Development of Canada through the lens of those outside the corridors of power including Aboriginals, immigrants, women, gays and lesbians.
Lectures, seminar, 3 hours per week.
Prerequisite: CANA 1F91 or permission of the instructor.

CANA 3V90-3V94
Canadian Cultural Studies I
Selected topics in Canadian cultural studies emphasizing methods and issues with a Humanities orientation.
Lectures, seminar, 3 hours per week.
Prerequisites: CANA 2P91 and 2P92 (2F91) or permission of the instructor.

CANA 3V95-3V99
Canadian Cultural Studies II
Selected topics in Canadian cultural studies emphasizing methods and issues with a Social Science orientation.
Lectures, seminar, 3 hours per week.
Prerequisites: CANA 2P91 and 2P92 (2F91) or permission of the instructor.

CANA 4F99
Honours Thesis/Project
Independent interdisciplinary study under the guidance of a faculty adviser.
Restriction: open to CANA majors with approval to year 4 (honours) and permission of the Director.
Note: students are responsible for making arrangements with a supervising faculty member and must submit a written proposal by September 15. Thesis/project, to be evaluated by a faculty committee representing the disciplinary areas to which the thesis/project is related.

CANA 4P00
Directed Reading
Directed individual or group reading and written work in an area of Canadian Studies.
Restriction: open to CANA majors with approval to year 4 (honours) and permission of the Director.
Note: students are responsible for arranging their course with a supervising faculty member and must submit a written proposal, signed by the supervisor, to the Director for approval before registration.

CANA 4P90

Advanced Topics in Canadian Studies

Interdisciplinary examination of critical themes in Canadian culture, history, economy, politics, geography and citizenship focusing on regional and national identities, border crossings and the binational relationship.

Lectures, seminar, 3 hours per week.

CANA 4V10-4V70

Topics in Canadian History

Seminar, 3 hours per week.



Chemistry

Chair

Heather L. Gordon

Professors Emeriti

Martin S. Gibson, J.S. Hartman, Richard R. Hiatt, Jack M. Miller, David C. Moule

Professors

Jeffrey Atkinson, Ian D. Brindle, Tomas Hudlicky, Andrew G. Reynolds, Stuart M. Rothstein, Art van der Est

Associate Professors

Travis Dudding, Heather L. Gordon, Costa Metallinos, Melanie Pilkington, Georgii Nikonov

Assistant Professors

Martin T. Lemaire, Hongbin (Tony) Yan

Adjunct Professor

Christopher H. Marvin

Adviser

Art van der Est

Laboratory Co-ordinator/Instructor

Sergio Paone, Paul Zelisko

Senior Demonstrator - Research Technician

Donna Vukmanic

Co-ordinator, Analytical Services

Tim R. B. Jones

NMR Technologist

Razvan Simionescu

Director, Co-operative Programs

Cindy Dunne

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Stuart M. Rothstein

General Information

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Chemistry is the study of matter and its interactions with various forms of energy. Brock students are involved in the analysis, synthesis and purification of substances, determining their structures and properties and explaining the mechanisms of processes.

Our programs stress chemical principles and practice through research in organic, inorganic, analytical, physical and theoretical chemistry, with a strong emphasis on the interdisciplinary fields of bio-inorganic and bio-organic chemistry and chemical biophysics. Research interests of the department include development of new chiral ligands, organometallic reagents, and methods for asymmetric synthesis, green chemistry including bacterial dioxygenase-mediated degradation of aromatics, new approaches in natural product synthesis emphasizing morphine alkaloids, design and synthesis of fluorinated inhalation anesthetic agents and unnatural oligo-saccharide conjugates, ligand design and crystal engineering aimed at self-assembly of novel molecule-based materials, organic electrochemistry, energetics of photosynthesis studied by time-resolved electron spin resonance of short-lived paramagnetic intermediates, nuclear magnetic resonance spectroscopy, organometallic mass spectrometry, quantum and computational chemistry, pesticide and trace element analysis, protein affinity labelling and protein-lipid interactions, and structure-activity correlations of anticancer pharmaceuticals.

The Honours program in Chemistry is designed to give the student a broad knowledge of chemistry as well as depth in areas in which the student is most interested. A research project must be successfully completed and a thesis written as part of the requirements for an Honours degree. The Honours program and certain combined Honours programs listed below, when taken with CHEM electives, satisfy the requirements for membership in the Chemical Institute of Canada and are the normal requirements for admission to graduate school in chemistry.

The Chemistry Co-op program combines academic and work terms over a four and one half year period. Students spend two years in an academic setting, where they acquire the necessary background prior to taking the first work placement. Successful completion of courses in the core areas of Chemistry provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Chemistry Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue in the Co-op program is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Chemistry Co-op program, but may continue in the non Co-op Chemistry

stream. For further information, see the Co-op Programs section of the Calendar, and contact the Department of Chemistry.

The requirement for graduation with a Chemistry (Honours) degree is a minimum 70 percent major average and a minimum 60 percent non-major average. The Chemistry Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

The equipment available in the Mackenzie Chown Complex is actively used for both teaching and research. Undergraduate students gain hands-on experience in operating modern equipment for separating of complex mixtures, determining molecular structures, and making quantitative measurements. Newer equipment is computer-controlled and is connected to the University's Ethernet backbone. The department also has a variety of computers and UNIX workstations for advanced computation, data interpretation and molecular modelling.

Instrumentation includes 300 and 600 MHz NMR cryospectrometers for high-resolution solution and solids studies. Mass spectrometry facilities include a high resolution machine with EI, CI and FAB ion sources, an ion trap ESI/LC/MS system, a MALDI/TOF spectrometer and two capillary GC/MS facilities. A number of spectroscopic instruments are available in the research laboratories including time-resolved EPR, ICP and ICP/MS, FTIR, UV/Visible, fluorescence cuvette and microplate fluorimeters. There are several chromatography systems for HPLC and capillary GC analysis. This instrumentation is augmented by a range of modern facilities available through the Cool Climate Oenology and Viticulture Institute, which support work in biochemistry, especially work involving proteins, nucleic acids, yeasts and bacteria.

Students should consult the Department Chair when planning years 3 and 4 of the BSc (Honours) and BSc with Major programs, or year 3 of the BSc (Pass) program.

In addition to its own programs, the Chemistry department participates in combined major programs with six other departments/centres and is also a major participant in the Biochemistry, Biotechnology, Environment, and Oenology and Viticulture programs.

Program Notes

1. Professional schools may require an introductory PHYS credit with a lab.
2. The elective credits are normally taken from the Faculty of Mathematics and Science (except ASTR 1P01, 1P02, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, SCIE 1P50 and 1P51).
3. APCO 1P93 is recommended. MATH 2F05 is recommended for students interested in physical chemistry and MATH 2P81 and 2P82 are recommended for students interested in analytical chemistry.
4. CHEM 3P40 and 3P41 are required for CHEM majors and are highly recommended for combined majors. At least one of these is a prerequisite for most projects in CHEM 4F90 and 4F91 and should be taken in year 3 by students intending to proceed to a year 4 thesis in Chemistry. Combined majors proceeding to research in organic and inorganic chemistry must take CHEM 3P40 while combined majors proceeding to research in analytical, physical, and theoretical chemistry must take CHEM 3P41.
5. Students planning to pursue graduate studies in Chemistry are strongly recommended to take at least two and one-half CHEM credits numbered 3(alpha)90 or above covering at least three of the sub-disciplines of physical, inorganic, analytical and organic chemistry, in addition to CHEM 4F90 and 4F91. Chemistry majors planning to pursue graduate studies in biochemistry or biological chemistry are strongly recommended to take CHEM 4P27, 4P67, or 4P68, and two additional year 4 CHEM credits.
6. Students with a minimum 70 percent in 4U chemistry take CHEM 1F92. Students with a minimum 70 percent in 4U chemistry may not take CHEM 1P00 without permission from the Department, which is granted only in exceptional cases.
7. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- CHEM 1F92 (see program note 6)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22 or 1P92 (recommended; see program note 1)
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one Humanities context credit
- one Social Sciences context credit

Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- one of PHYS 2P02, 2P20, 2P31, 2P50, 2P51
- one-half APCO or MATH credit (see program note 3)
- one elective credit (see program note 2)

Year 3

- CHEM 3P40 and 3P41
- two and one-half credits from CHEM 3P20, 3P21, 3P30, 3P31, 3P51, 3P53, 3P93
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2)
- one elective credit (CHEM 3P60 or 3P61 recommended; see program notes 2 and 5)

Year 4

- CHEM 4F90 and 4F91
- one credit from CHEM 3P20, 3P21, 3P30, 3P31, 3P51, 3P53, 3P93 (not taken in year 3)
- one CHEM credit numbered 3(alpha)90 or above
- one elective credit (see program notes 2 and 5)

Chemistry Co-op (Honours only)

Students admitted to the Chemistry Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- CHEM 1F92 (see program note 6)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22 or 1P92 (recommended; see program note 1)
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one Humanities context credit
- one Social Sciences context credit

Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- SCIE 0N90
- one of PHYS 2P02, 2P20, 2P31, 2P50, 2P51
- one-half APCO or MATH credit (see program note 3)
- one elective credit (see program note 2)

Spring/Summer Sessions:

- CHEM 0N01

Year 3

Fall Term:

- CHEM 3P20, 3P30, 3P40 and 3P51
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2) or one-half elective credit

Winter Term:

- CHEM 0N02

Year 4

Fall Term:

- CHEM 0N03

Winter Term:

- CHEM 3P21, 3P31, 3P41, 3P53, 3P93

Year 5

- CHEM 4F90 and 4F91
- one CHEM credit numbered 3(alpha)90 or above
- two elective credits

Research-oriented Co-op (Honours only)

Year 1

- CHEM 1F92 (see program note 6)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one Humanities context credit
- one Social Sciences context credit

Spring/Summer Sessions:

- one-half elective credit

Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- APCO 1P93
- MATH 2F05, or MATH 2P81 and 2P82
- one of PHYS 2P02, 2P20, 2P31, 2P50, 2P51
- SCIE 0N90

Spring/Summer Sessions:

- CHEM 0N01 and 2P98

Year 3

Fall Term:

- CHEM 3P20, 3P30, 3P40 and 3P51
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2), or one-half elective credit

Winter Term:

- CHEM 0N02

Year 4

Fall Term:

- CHEM 0N03 and 3P98

Winter Term:

- CHEM 3P21, 3P31, 3P41, 3P53 and 3P93

Spring/Summer Sessions:

- CHEM 4F90 and 4F91

Year 5

Fall Term:

- one-half CHEM credit numbered 3(*alpha*)90 or above
- one elective credit (see program note 7)

BSc Honours in Chemistry: Environmental stream (Honours only)

The following has a biological content. A similar pattern with ERSC or GEOG courses replacing BIOL courses is possible. Consult the Chair. This program does not satisfy the requirements for membership in the Chemical Institute of Canada.

Year 1

- CHEM 1F92 (see program note 6)
- BIOL 1F90
- one of MATH 1P01 and 1P02, MATH 1P05 and 1P06 (recommended), MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)
- TREN 1F90

Year 2

- CHEM 2P12 or 2P63
- CHEM 2P20, 2P21, 2P32 and 2P42
- BIOL 2Q04
- PHYS 1P23
- one-half BIOL credit
- one Humanities context credit

Year 3

- CHEM 3P20, 3P21, 3P30, 3P31, 3P40 and 3P41
- CHEM 3P60 or 3P61
- TREN 3P25
- one elective credit (BIOL recommended)

Year 4

- CHEM 4F90, 4F91 and 4P41
- TREN 4P14
- one-half CHEM credit numbered 3(*alpha*)90 or above
- one and one-half elective credits (CHEM or BIOL recommended)

BSc with Major Program

This program differs from the Honours program in that honours standing is not required for entry into year 4, and year 4 does not include the research project and thesis courses (CHEM 4F90 and 4F91). Combined majors should consult the Chair.

Year 1

- CHEM 1F92 (see program note 6)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one Humanities context credit
- one Social Sciences context credit

Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- one of PHYS 2P02, 2P20, 2P31, 2P50, 2P51
- one-half APCO or MATH credit (see program note 3)
- one elective credit (see program note 2)

Year 3

- CHEM 3P40 and 3P41
- two credits from CHEM 3P20, 3P21, 3P30, 3P31, 3P51, 3P53
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2)
- one and one-half elective credits (CHEM 3P60 recommended; see program notes 2 and 5)

Year 4

- one credit from CHEM 3P20, 3P21, 3P30, 3P31, 3P40, 3P51, 3P53 (not taken in year 3)
- three CHEM credits numbered 3(*alpha*)90 or above
- one elective credit (CHEM 3P60 or 3P61 and either CHEM 3P62 or 3P93 recommended)

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Biochemistry

Consult the Biochemistry calendar entry for a listing of courses and program requirements.

Biotechnology

Consult the Biotechnology calendar entry for a listing of courses and program requirements.

Concurrent BSc/BEd

The Department of Chemistry and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEd programs. The Chemistry BSc (Honours)/BEd programs combines the BSc Honours program or BSc Integrated Studies Honours program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10). Refer to the Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior) or Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) program listings for further information.

Combined Major Program

Combined Honours and Pass programs can be taken in Chemistry/Biology, Chemistry/Computer Science (Honours only), Chemistry/Earth Sciences, Chemistry/Environment, Chemistry/Mathematics and Chemistry/Physics. In most of the combined major programs a research project must be successfully completed and a thesis written as part of the requirements for an Honours degree.

Chemistry and Mathematics

Honours

Year 1

- CHEM 1F92 (see program note 6)
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12 and 1P40
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)
- one Humanities context credit or Social Sciences context credit

Year 2

- CHEM 2P12 or 2P63
- CHEM 2P20, 2P32 and 2P42
- MATH 2P12
- MATH 2F05, or MATH 2P03 and 2P08
- one of PHYS 2P02, 2P20, 2P31, 2P50, 2P51
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- CHEM 3P40 or 3P41
- CHEM 3P51 and 3P53
- MATH 2F40, 2P81, 2P82, 3P08 and 3P09
- one-half CHEM credit numbered 2(alpha)90 or above

Year 4

- CHEM 4F90 and 4F91
- CHEM 3P20 and 3P21, or CHEM 3P30 and 3P31
- MATH 2P12 and 3P60
- one CHEM or MATH credit numbered 2(alpha)90 or above

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Chemistry and Physics

Honours

Year 1

- CHEM 1F92 (see program note 6)
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)
- one Humanities context credit
- one Social Sciences context credit

Year 2

- CHEM 2P12, 2P20, 2P32 and 2P42
- MATH 2F05
- PHYS 2P02 or 2P20
- PHYS 2P31, 2P50 and 2P51

Year 3

- CHEM 2P63 and 3P51
- MATH 3P08 and 3P09
- PHYS 3P35 and 3P36
- one and one-half credits from CHEM 3P20, 3P21, 3P30, 3P31, 3P40, 3P41, 3P53
- one-half elective credit

Year 4

- CHEM 4F90 and 4F91 or PHYS 4F90 and 4F91
- one of CHEM 3P20, 3P21, 3P30, 3P31, 3P40, 3P41, 3P53
- one CHEM or PHYS credit numbered 2(alpha)90 or above
- one of PHYS 3P02, 3P90, 4P61, 4P70
- one elective credit (see program note 7)

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Minor in Chemistry

Students in other disciplines may obtain a minor in chemistry within their degree program by completing the following courses with a minimum 60 percent average:

- CHEM 1F92
- two CHEM credits numbered 2(alpha)00 or above
- one CHEM credit numbered 3(alpha)00 or above

Brock-Colleges Articulation Agreement

Mohawk College

This agreement allows Brock to admit Mohawk graduates who have a minimum 78 percent overall average in the Chemical Engineering Technology Program to the Honours BSc program in Chemistry. Students automatically receive 6.5 credits towards the Honours BSc program in Chemistry.

Master of Science (MSc) Program

Candidates with either an Honours or a (Pass) BA or a BSc degree in Chemistry, or equivalent, may apply to the Director of the Graduate Studies Office for entry into this program. Candidates holding a Pass degree will be required to take a qualifying year, similar to year 4 of the Honours program, before formally enrolling for the MSc degree. Candidates may be required to write Graduate Record Aptitude and Advanced Chemistry Examinations.

Candidates with an Honours degree, or who have completed a qualifying year, require a minimum of one year of full-time study. The department offers a wide range of courses and research opportunities in analytical, inorganic, organic, physical and theoretical chemistry.

For further information about the MSc program see the Graduate Calendar and the department's Graduate Studies brochure.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

CHEM 1F92

Chemical Principles and Properties

A chemical approach to describing the natural world. Molecular structure, shapes, and behaviour of molecules emphasizing organic compounds. Bonding and intermolecular interactions; the states of matter; solutions and their properties. Thermochemistry, entropy, free energy, chemical equilibrium, and reaction

rates. Labs emphasize chemical syntheses, stoichiometry, and modern analytical techniques.

Lectures, 3 hours per week; tutorial, 1 hour alternating weeks; plus a minimum of six 3-hour labs per term.

Prerequisite: a minimum 70 percent grade in 4U/M chemistry (or equivalent course), CHEM 1P00, or permission of the Department.

CHEM 1P00 Introductory Chemistry

Fundamental principles of chemistry. Topics include atomic structure and the periodic table, names and formulas of chemical compounds, principles of chemical bonding, types of chemical reactions, and basic chemical calculations. Tutorials emphasize the development and practice of problem solving skills.

Lectures, 3 hours per week; lab, tutorial and problems solving session, 3 hours per week.

Note: open to students with less than 70 percent 4U/M chemistry or equivalent who are enrolled in a program leading to a BSc degree, or with permission from the Department. CHEM 1P00 is designed to assist those with insufficient background in chemistry to succeed in CHEM 1F92. Students with less than 70 percent in 4U/M chemistry, or who have not taken an advanced high school chemistry course are allowed to take CHEM 1F92 instead of CHEM 1P00 by permission of the Department if they pass a written test of basic chemistry knowledge, to be administered before classes begin.

CHEM 1P90 Chemical Principles and Properties

General chemistry, stoichiometry, inorganic and organic structures and reactions. Laboratory work includes chemical purification and analysis.

Lectures, 3 hours per week; plus a minimum of six 3-hour labs.

Restriction: open to CAST majors.

CHEM 2P12 Introduction to Modern Physical Chemistry

Phase equilibrium; gas phase kinetics; electronic structure of atoms and molecules; interaction of light with matter.

Lectures, 3 hours per week; tutorial, 1 hour per week; plus a minimum of six 3-hour labs.

Prerequisites: CHEM 1F92; one of MATH 1P01 and 1P02, MATH 1P05 and 1P06 (preferred), MATH 1P97.

CHEM 2P20 Principles of Organic Chemistry I

An introduction to the principles and techniques of organic chemistry; correlation of reactions and physical properties of organic

compounds with structure and energetic concepts. Introduction to applications of spectroscopy in organic chemistry and biochemistry. Selected experiments in organic preparations and techniques.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 1F92 (minimum 60 percent) or permission of the instructor.

CHEM 2P21 Principles of Organic Chemistry II

Introduction to aromatic molecules and electrophilic aromatic substitution reactions. Chemistry of natural products, their origin and biological significance. Topics include concepts of carbonyl and carbohydrate chemistry, DNA and an introduction to amino acids and proteins. Selected experiments in organic synthesis, and characterization and analysis.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P20.

CHEM 2P32 Principles of Inorganic Chemistry

A survey of the periodic table stressing periodicity of chemical behaviour. Chemistry and reactions in aqueous solutions; structure and bonding in simple compounds; applications to biological and environmental processes.

Lectures, 3 hours per week; plus a minimum of six 3-hour labs.

Prerequisite: CHEM 1F92.

CHEM 2P42 Introduction to Analytical Chemistry

Introduction to separation methods such as chromatography, solvent extraction and precipitation; use of buffers for pH-control; statistical treatment of analytical data including normal distributions, significance testing and linear regression.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 1F92.

* CHEM 2P63

Introduction to Biophysical Chemistry

(also offered as BTEC 2P63)

Physical chemistry as applied to biological sciences. Introductory thermodynamics, kinetics, equilibria, and transport phenomena as applied to proteins, biological membranes and other biological systems. Laboratory work includes kinetic measurements, equilibrium constant measurements and protein purification and characterization.

Lectures, lab, 6 hours per week.

Prerequisites: CHEM 1F92; one of MATH 1P01 and 1P02, MATH 1P05 and 1P06 (preferred), MATH 1P97.

CHEM 2P98 Undergraduate Research

Undergraduate research project carried out either in the department under the supervision

of a faculty member or as an employee in a chemical industry or other suitable laboratory. Restriction: open to CHEM (single or combined) majors and permission of the Department.

Note: if both CHEM 2P98 and CHEM 3P98 are taken, only one of these may be based on work done in the department.

CHEM 3P20 Structure and Reactivity of Organic Molecules

Methods for functional group manipulation including oxidation, reduction and the use of protecting groups in organic chemistry. General methods for carbon-carbon bond formation emphasizing three dimensional structure and mechanism. Modern methods of asymmetric synthesis. Selected experiments in synthetic organic chemistry and the handling of air and water sensitive reagents.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P21 or permission of the Department.

Note: CHEM 3P40 recommended. May be taken concurrently.

CHEM 3P21 Organic Reactions

The chemistry of amines, heterocyclic and heteroaromatic compounds. Pericyclic reactions and reactive intermediates. Molecular rearrangements, peptide synthesis and protecting groups, design of organic synthesis. Introduction to organic photochemistry and the chemistry of carbenes.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 3P20.

CHEM 3P30 Main Group Inorganic Chemistry

Systematic inorganic and organometallic chemistry of the transition elements, emphasizing structure, bonding and reactivity in inorganic and organometallic compounds. Selected experiments in inorganic and organometallic synthesis; use of modern structural methods for determination of composition, structure and bonding.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P32.

Note: CHEM 3P40 recommended. May be taken concurrently.

Completion of this course will replace previous assigned grade and credit obtained in CHEM 3P32.

CHEM 3P31 Transition Metal Chemistry

Continuation of CHEM 3P30, emphasizing the main group elements.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 3P30 (3P32).

Note: CHEM 3P40 recommended. May be taken concurrently.

CHEM 3P40**Spectroscopic Techniques for Structure Elucidation**

Use of instrumental methods for the determination of structures of molecules. Techniques will include mass spectrometry, nuclear magnetic resonance spectroscopy, covered Fourier transform infrared spectroscopy, visible and UV spectroscopy, computerized data manipulation.

Lectures, tutorial, 6 hours per week.

Restriction: students must have a minimum of 9.0 overall credits.

Prerequisite: CHEM 2P20.

CHEM 3P41**Instrumental Methods for Quantitative Analysis**

Use of instrumental methods for quantitative determination of elements and molecular species. Techniques include chromatography, atomic spectrometry, X-ray fluorescence spectrometry, nuclear emission and neutron-activation analysis, introduction to electroanalytical techniques. Emphasis on sample preparation and cleanup and aspects of quality assurance/quality control.

Lectures, lab, 6 hours per week.

Restriction: students must have a minimum of 9.0 overall credits.

Prerequisite: CHEM 2P42.

CHEM 3P51**Quantum Chemistry**

Schrodinger equation, solution of the harmonic oscillator problem, hydrogen atom, angular momentum theory, variational method with applications to atomic and molecular systems, molecular orbital theory and simple group theory. Introduction to FORTRAN 77.

Lectures, 3 hours per week; lab, 2 hours per week; tutorial, 1 hour per week.

Prerequisite: CHEM 2P12 or 2P63.

CHEM 3P53**Atomic and Molecular Structure and Spectroscopy**

Group theory and theory of electro-magnetic radiation and spectroscopic transitions. Rotational and vibrational spectroscopy (Microwave, IR, Raman); atomic and molecular electronic spectroscopy (UV/Visible); magnetic resonance (NMR, EPR); X-ray crystallography.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 3P51.

CHEM 3P60**Industrial Chemistry**

Principles and practice of industrial chemistry. A survey of the chemical industry, pollution control, plant design, corrosion and similar topics. Selected industrial processes will be

discussed in detail. Tours of chemical plants and industrial laboratories.

Lectures, 3 hours per week; seminars and plant tours, 3 hours per week.

Prerequisite: one credit from CHEM 2P12, 2P20, 2P32, 2P42, 2P63.

CHEM 3P61**Organic Chemistry in Industry**

Chemicals with specialized applications, such as dyes and pigments, fragrances, flavourants, agrochemicals and surfactants. Topics include the chemistry and applications of these chemicals.

Lectures, seminar, 3 hours per week.

Prerequisites: CHEM 2P20, 2P21 and 2P63.

*** CHEM 3P62****Bio-organic Chemistry**

(also offered as BTEC 3P62)

Mechanistic description of the biosynthesis and metabolism of natural products including alkaloids, terpenes and acetate-derived compounds. Selected examples of biologically/medicinally active classes of natural products along with their physiological modes of activity.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P21.

*** CHEM 3P93****Protein and Nucleic Acid Chemistry**

(also offered as BTEC 3P93)

Structure and chemistry of proteins and nucleic acids. Selected aspects of transcription, translation, protein folding, post-translational modification, targeting, synthesis and sequencing, and detection techniques.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 2P21.

Completion of this course will replace previous assigned grade and credit obtained in CHEM (BTEC) 3P63.

CHEM 3P98**Undergraduate Research Project**

Undergraduate research project carried out either in the department under the supervision of a faculty member or as an employee in a chemical industry or other suitable laboratory. Restriction: open to CHEM (single or combined) majors with 9.0 overall credits and permission of the Department.

Note: if both CHEM 2P98 and CHEM 3P98 are taken, only one of these may be based on work done in the department.

CHEM 4F90**Research Project**

Experimental or theoretical research to be carried out under faculty supervision.

Restriction: open to CHEM (single or combined) and BCHM majors with approval to year 4 (honours) and permission of the Chair. Prerequisite: CHEM 3P40 or 3P41.

Co-requisite: CHEM 4F91.

CHEM 4F91**Thesis**

The thesis incorporates the results of the research in CHEM 4F90 and forms the basis for a seminar to be presented by the student.

Restriction: open to CHEM (single or combined) and BCHM majors with approval to year 4 (honours) and permission of the Chair. Prerequisite: CHEM 3P40 or 3P41.

Co-requisite: CHEM 4F90.

CHEM 4P01**Special Topics**

Tutorials, seminars, special projects or directed readings in an area of chemistry.

Lectures/seminar/ tutorial, 3 hours per week.

Restriction: open to CHEM (single or combined) majors with a minimum of 14.0 overall credits and permission of the Chair.

CHEM 4P14**Statistical Thermodynamics in Chemistry and Biology**

Ensembles, entropy, free energy, statistical mechanics of simple gases and solids, heat capacity, chemical equilibrium, substrate binding, water as a solvent, and polymers and biopolymers.

Lectures, seminar, 3 hours per week.

Prerequisite: CHEM 3P51.

Co-requisite: CHEM 3P53.

CHEM 4P17**Biophysical Photochemistry**

Principles of light induced processes such as electron, energy and signal transfer and their role in biological systems. Marcus theory, Dexter and Foerster mechanisms of energy transfer. The optical and magnetic resonance spectroscopy of excited states.

Lectures, 3 hours per week.

Prerequisite: CHEM 3P40, 3P53 or permission of the instructor.

*** CHEM 4P18****Computational Chemistry: Applications in Biotechnology**

(also offered as BTEC 4P18)

Structure-based drug design, molecular modelling, conformational search techniques, secondary and tertiary protein structure prediction, quantitative structure activity relationships and bioinformatics.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 13.5 overall credits.

Prerequisite: CHEM 2P12 or 2P63.

CHEM 4P21**Organic Reactions and Synthesis**

The disconnection approach to organic synthesis. Problems of chemo-, regio- and stereo-selectivity. Appreciation of elaborate syntheses. Synthetic organic chemistry topics

from the recent literature.
Lectures, seminar, 3 hours per week.
Prerequisite: CHEM 3P21.

CHEM 4P22

Organic Reactions and Mechanisms

Topics include conformational analysis, introduction to transition state theory and the description of stereo and electronic control in organic reactions. Pertinent applications will be taken from the recent literature.

Lectures, seminar, 3 hours per week.
Prerequisite: CHEM 3P21.

CHEM 4P23

Organometallics in Organic Synthesis

Use of organometallic reagents for organic transformations. Metalation and transmetalation using organolithium, magnesium, cerium and zinc reagents; stable precursors and reactive intermediates in transition metal catalyzed organic reactions employing palladium, nickel, ruthenium, and other metals. Topics from recent literature involving applications to organic synthesis, emphasizing stereoselectivity.

Lectures, seminar, 3 hours per week.
Prerequisite: CHEM 3P21.

* CHEM 4P27

Enzyme and Co-enzyme Mechanisms (also offered as BTEC 4P27)

Hydrolytic and other processes catalyzed by enzymes lacking non-protein prosthetic groups; transferase reactions involving biotin, pyridoxal phosphate, thiamine pyrophosphate, folic acid and cobalamin; oxidation mechanisms involving pyridine nucleotides, flavoenzymes, hydroperoxidases and oxygenases.

Lectures, seminar, 3 hours per week.
Prerequisites: CHEM 2P21, BCHM 3P01 and 3P02.

CHEM 4P30

Advanced Co-ordination Chemistry

Bonding and electronic structure of transition metal coordination complexes through an application of symmetry properties and group theory tools. Topics include bonding, electronic structure and properties (ligand field theory), molecular magnetism, EPR properties.

Prerequisites: CHEM 2P32 and 3P51.

CHEM 4P31

Advanced Inorganic and Organometallic Chemistry

Continuation of CHEM 3P30 and 3P31 focusing on advanced topics of inorganic and organometallic chemistry of main group and transition metal elements, emphasizing the use of modern physical methods for determination

of composition, structure and bonding of inorganic and organometallic compounds.

Lectures, 3 hours per week.

Prerequisite: CHEM 3P31 and CHEM 3P53.

Note: CHEM 3P53 may be taken concurrently with permission of the instructor.

CHEM 4P32

Bio-inorganic Chemistry

Principles governing selection, uptake, storage, transport, and role of metal ions in biological processes. Topics include electron-transfer systems, substrate binding and activation by nonredox enzymes, metal-containing drugs, and biomineralization.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum of 12.0 overall credits.

Prerequisites: CHEM 2P21 and 2P32.

CHEM 4P41

Enviro-Analytical Chemistry

Chemical speciation studied by a variety of modern analytical techniques. Transport and fate of various compounds and elements in the environment.

Lectures, seminar, 3 hours per week.

Prerequisite: CHEM 3P41.

CHEM 4P60

Principles of Polymer Chemistry

Polymer synthesis involving condensation, living anionic and cationic polymerization and atom transfer radical polymerization. Cross-linked and dendritic polymers and their properties, and the role played by polymers in biomedical applications such as drug delivery and implantable devices.

Lectures, seminar, 3 hours per week.

Prerequisites: CHEM 2P20 and 2P21.

Note: CHEM 3P20 and 3P21 are recommended.

CHEM 4P61

Principles of Silicon Chemistry

Chemistry of silicon in organic, organometallic and polymeric compounds emphasizing structure, bonding and reactivity. Applications of silicon in the biomedical field and the interaction with biomolecules.

Lectures, 3 hours per week.

Prerequisites: CHEM 2P20 and 2P21.

Note: CHEM 2P32, 3P20 and 3P21 are recommended.

* CHEM 4P67

Biophysical Techniques

(also offered as BCHM 4P67 and BTEC 4P67)

Modern instrumental methods of biotechnology emphasizing understanding theory. Development of newer technologies which utilize biological components. Topics include optical, X-ray and NMR techniques, separation techniques, hybridization assays,

immunoassays, biosensors and mass spectral techniques; membrane chemistry.

Lectures, seminar, 3 hours per week.

Prerequisites: CHEM 2P21 and 2P63 or permission of the instructor.

* CHEM 4P68

Biotransformations

(also offered as BTEC 4P68)

The organic reactions carried out by isolated enzymes, fungal cultures and bacteria. The production of pharmaceutical, agricultural and industrial chemicals by biological processes.

Lectures, 3 hours per week.

Prerequisite: one of CHEM 3P20, 3P62, 3P63 or permission of the instructor.

CHEM 4P92

Library Research and Seminar

Detailed study of the scientific literature under faculty supervision.

Restriction: open to students in the BSc with a Major in Chemistry program with a minimum of 15.0 overall credits or permission of the Department.

Note: the results of the study will be written up in a major essay and presented as a formal seminar.

CO-OP COURSES

CHEM 0N01

Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

CHEM 0N02

Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

CHEM 0N03

Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

CHEM 0N04

Work Placement IV

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

CHEM 0N05

Work Placement V

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

SCIENCE

SCIE 1P50

Science and Society I

Basic questions and problems in understanding the nature of science in relation to current environmental issues and their impact on society. Most common scientific concepts and theories associated with major environmental problems facing the world today.

Lectures, 3 hours per week; seminar, 1 hour alternate weeks.

Note: for non-science majors. Co-ordinated through the Department of Chemistry.

Completion of this course will replace previously assigned grade and credit obtained in SCIE 1F30.

SCIE 1P51

Science and Society II

Introduction to interrelationships between science, technology and society. Topics include the nature of science and technology, genetic engineering, pharmaceutical industry and food additives.

Lectures, 3 hours per week; seminar, 1 hour alternate weeks.

Note: for non-science majors. Co-ordinated through the Department of Chemistry.

Completion of this course will replace previously assigned grade and credit obtained in SCIE 1F30.

CO-OP COURSE

SCIE 0N90

Co-op Training and Development

Framework for the development of learning objectives for individual work terms, for students in the co-op programs in the Faculty of Mathematics and Science. Includes orientation to the co-op experience, goal setting, career planning, résumé preparation and interview skills preparation.

Lectures, presentations, site visits, 2 hours per week.

Restriction: open to Science Co-op students.

Note: see Director of Co-op Programs Office.

Child Health

This program is offered through the Department of Community Health Sciences

Chair

Anthony F. Bogaert

Undergraduate Program Co-ordinator

Jackie Robb

General Information

Administrative Assistant

Joanne Boucher

905-688-5550, extension 4228

Academic South 329

<http://fahs.brocku.ca/chsc/>

The BA (Honours) in Child Health is designed for students wishing to pursue careers concerned with the health of children as an educator or as a health professional following post graduate study. The program provides students with a biological, psychological and sociological overview of the major determinants of health from birth through adolescence.

Program Notes

1. To proceed to year 2, students must achieve a minimum 70 percent major average with a minimum grade of 60 percent in CHSC 1F90 and MATH 1F92.
2. At least one credit each year must be taken outside the Department of Community Health Sciences.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program (only)

Year 1

- CHSC 1F90
- BIOL 1F90
- CHYS 1F90
- MATH 1F92
- one Humanities context credit (one of ENGL 1F91, 1F95, 1F97 recommended)

Year 2

- CHSC 2P07, 2P09, 2P21, 2P50 and 2P91
- CHYS 2F10, 2P35 and 2P38
- one-half elective credit

Year 3

- CHSC 3P07, 3P21, 3P50 and 3P80
- one and one-half credits from CHSC 2P60, 2P97, 3P60, CHYS 3P20, 3P35, 3P38, PSYC 3P23
- one and one-half elective credits

Year 4

- CHSC 3P33 and 4P80
- one and one-half credits from CHSC 3P94, 3P96, 3P97, 4F90, 4P60, 4P99
- one credit from CHYS 3P43, 3P94, 3P95, 3P96, 3P99, 3V80-3V99
- one and one-half elective credits (see program note 3)

Description of Courses

See relevant calendar entry for course descriptions.

Child and Youth Studies

Chair

Tom O'Neill

Professors

Maureen Connolly, Maurice Feldman, Dorothy Griffiths, Zopito Marini, Teena Willoughby

Associate Professors

Heather Chalmers, Jan Frijters, Voula Marinou, John McNamara, Tom O'Neill, Frances Owen, Rebecca Raby, Hans Skott-Myhre, Christine Tardif-Williams, Donato Tarulli, Tricia Vause, Terrance J. Wade, Dawn Zinga

Assistant Professors

Richard Mitchell, Shannon Moore, Shauna Pomerantz, Ayda Tekok-Kilic

Adjunct Professors

James Porter, Kathy Skott-Myhre

Department Co-ordinator

Alison Lahn

Administrative Co-ordinator

Carol Penner

Course Co-ordinator

Ellen Carter

Student Facilitator

Jo-Anne Sinnige-Egger

General Information

Administrative Assistant

Julia Gottli

905-688-5550, extension 3740

South Block 431

<http://www.brocku.ca/childand youthstudies/>

The Department of Child and Youth Studies (CHYS) offers a four-year program leading to the BA Honours in Child and Youth Studies, a three-year BA Pass degree and a concurrent BA (Honours) degree/BEEd (Primary/Junior) degree program in child and youth development theory and its application. Each program integrates psychological, sociological and educational perspectives (for further information see the Child and Youth Studies Student Handbook).

The BA in Child and Youth Studies is not equivalent to an Early Childhood Education diploma and does not directly lead to certification as a preschool teacher. Many colleges offer fast-track Early Childhood Education programs designed for University graduates. Alternately, the Association for Early Childhood Education (Ontario) may issue a letter of equivalency upon completion of additional qualifications. Normally, graduates must have successfully completed CHYS 3P50 and 3P52.

Brock students, both full-time and part-time, may apply to Child and Youth Studies. All CHYS courses; PSYC 1F90 and SOCI 1F90; one of MATH 1F92, PSYC 2F23 (recommended), SOCI 2P11, 2P13 (for combined CHYS/SOCI majors); will be used to calculate the CHYS average. Students who have other credits may be evaluated on an individual basis. Students failing to maintain the required average may request an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once and for only one full academic year (Spring, Summer, Fall/Winter). Application forms for the Child and Youth Studies BA program (available at <http://www.brocku.ca/childand youthstudies/>) must be completed and returned to the Child and Youth Studies office by May 1, in addition to the University "Request to Declare or Change Majors" form. New applications to the Child and Youth Studies Honours and Pass BA programs are accepted in years 2 and 3. Late applications will not be accepted.

This is a limited enrolment program, and applicants must have the approval of the Chair of Child and Youth Studies. Admission is not guaranteed by attainment of the minimum requirements. Applicants for Honours Child and Youth Studies year 4 must submit a Child and Youth Studies departmental application form (available at <http://www.brocku.ca/childand youthstudies/>) to the Child and Youth Studies office by May 1, in addition to the University *Application for Year 4 Studies* form. Students must apply to complete either a thesis, project or course work option for an Honours degree. Late applications will not be accepted. This is a limited enrolment program, and applicants must have the approval of the Chair of Child and Youth Studies. Admission is not guaranteed by attainment of the minimum requirements. Acceptance into the Individual Thesis stream may also be based in part on the availability of an approved supervisor from the CHYS department.

Students who have completed an appropriate College of Applied Arts and Technology two or three-year diploma must have a minimum

85 percent cumulative average for consideration by Child and Youth Studies for CHYS BA (single or combined) and may receive between three and five transfer credits if they are admitted to Brock. Child and Youth Studies evaluates the files of eligible students in consultation with the Registrar's Office after acceptance to Brock has been completed and transferable credits have been awarded. All applicants must take CHYS 1F90. It is recommended that CHYS BA (single or combined) majors seek academic advice (<http://www.brocku.ca/childand youthstudies/advising/> or <http://www.brocku.ca/childand youthstudies/yr1advising/>). See the Child and Youth Studies Student Handbook (<http://www.brocku.ca/childand youthstudies/handbook.pdf>) for more information.

Students who have completed an appropriate College of Arts and Technology two-year diploma must have a minimum 85 percent cumulative average for consideration for the BA Child and Youth Studies (Honours)/BEEd Program and may receive a maximum of three transfer credits if they are admitted to Brock; students who have completed a Child and Youth Worker diploma may receive four transfer credits. All applicants must take CHYS 1F90. It is recommended that CHYS BA (Honours)/BEEd majors seek academic advice from the Concurrent Education Programs Office (<http://concurrent.ed.brocku.ca/>).

Child and Youth Worker

The Child and Youth Worker program involves courses offered through Brock and Durham College of Applied Arts and Technology. This five-year program combines courses and training in a variety of community settings at Durham College with an Honours degree in Child and Youth Studies at Brock. The program caters to individuals who wish to have a career working with children and adolescents and their families in a variety of settings such as the Children's Aid Society, group homes for young offenders, children's mental health centres, and schools and day programs for distressed children and youth. The program allows students to gain both solid applied skills and training, and a strong theoretical knowledge about a variety of topics in Child and Youth Studies. Students who successfully complete the requirements for this program will be granted both an Honours degree in Child and Youth Studies from Brock, and a Child and Youth Worker diploma from Durham College. Gaining both a degree and this diploma would ordinarily involve attending college for three years after gaining a university degree, but the Brock and Durham program combines the two in a single integrated package that can be completed in five years. Students will normally apply for admission to the program following

the successful completion of Year 1 courses, as specified below. Applicants must have a minimum 75 percent Brock University overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Child and Youth Worker program are available from the Office of the Dean of Social Sciences.

Montessori Education

The Montessori Education Program involves courses offered through Brock and Sheridan College of Applied Arts and Technology. This four-year program combines courses and training in Montessori Education settings at Sheridan College with an Honours degree in Child and Youth Studies at Brock. The program caters to individuals who wish to have a career in teaching in a Montessori setting. The program allows students to gain both solid applied skills and training in Montessori education, and a strong theoretical knowledge about a variety of topics in Child and Youth Studies. Students who successfully complete the requirements for this program will be granted both an Honours degree in Child and Youth Studies from Brock and a diploma in Montessori Education from Sheridan College. Students will also receive an Early Childhood teaching credential from the American Montessori Society (AMS). Gaining both a degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and Sheridan program combines the two in a single integrated package that can be completed in four years. Students will normally apply for admission to the program following the successful completion of Year 1 courses, as specified below. Applicants must have a minimum 75 percent Brock University overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Montessori Education program are available from the Office of the Dean of Social Sciences.

Teachable Subjects

Students wishing to apply to teacher education programs in provinces other than Ontario are advised to check the admission requirements in the pertinent faculties of education with regard to teachable subjects. Students wishing to apply to teacher education programs in Ontario who do not take a minimum of three elective credits in courses designated as teachable subjects in one area may be restricted to certification at the Primary/Junior level.

Concurrent CHYS BA (Honours)/BEd (Primary/Junior)

The Department of Child and Youth Studies and the Faculty of Education cooperate in offering a Concurrent BA (Honours)/BEd program. The Child and Youth Studies BA (Honours)/BEd program combines the BA Honours program with the teacher education program for students interested in teaching Primary/Junior (grades K-6). Refer to the Education - Concurrent BA (Honours)/BEd Child and Youth Studies Program listing for additional information.

Program Notes

1. Students wishing to proceed to years 2 and 3 of the BA program must have achieved a minimum of 60 percent in Child and Youth Studies required courses.
2. All Child and Youth Studies majors are encouraged to choose electives from other departments to broaden their academic experience. If CHYS majors register in more than one-half credit from required CHYS courses as electives, they may be deregistered.
3. CHYS majors will require departmental approval to register in more than three and one-half CHYS credits until date specified in Registration guide.
4. Combined CHYS/SOCI majors who change to a single CHYS major will be required to take MATH 1F92 or PSYC 2F23. PSYC 2F23 is recommended.
5. Admission to year 4 (Honours) is by application through the Department and requires a minimum 70 percent major average. Students wishing to apply for either an individual thesis or group thesis are also required to have a minimum 75 percent overall average in CHYS 3P10 and 3P15.
6. Admission to combined CHYS/PSYC Year 4 (Honours) is by application through the Department and requires a minimum 75

percent major average and a minimum 70 percent overall average.

7. Applicants to the individual thesis option are required to submit a detailed (one page minimum) letter of research interests.
8. SOCI 4F90 is restricted to students with a minimum major average of 80 percent.
9. SOCI 4F91 is restricted to students with a minimum major average of 75 percent.
10. CHYS and CHYS BA (Honours)/BEd (Primary/Junior) majors cannot take PSYC 2P12, 3P18 or 4P35 in fulfilment of their degree requirements.
11. WRIT 1P93 is recommended.

12. Elective credit may be taken in Year 3. If elective is not taken in Year 2 then one and one-half elective credits must be taken in Year 3.

13. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- CHYS 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or Science context credit
- one elective credit (see program note 11)

Year 2

- CHYS 2F10, 2P35 and 2P38
- MATH 1F92 or PSYC 2F23 (recommended)
- the Humanities context credit or Science context credit not taken in year 1
- one elective credit

Year 3

- CHYS 3P10 and 3P15
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60

- one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P40, 3P44
- two and one-half elective credits

Year 4

Depending upon the major average and other departmental requirements, students may select one of three options:

Individual Thesis option:

- CHYS 4F99 and 4P98 (see program note 5)
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- two elective credits

Group Thesis option:

- CHYS 4F97 and 4P98 (see program note 5)
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- two elective credits

Course Work option:

- One CHYS credit numbered 3(alpha)90 to 4(alpha)99
- two CHYS credits numbered 4(alpha)00 to 4(alpha)99
- two elective credits

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Students may take a combined degree in Child and Youth Studies and another discipline. For requirements in the co-major discipline the student should consult the relevant department. It should be noted that not all departments provide a combined major option.

Child and Youth Studies and Applied Linguistics

Consult the Applied Linguistics entry for a listing of program requirements.

Child and Youth Studies and Geography

Honours

Year 1

- CHYS 1F90
- GEOG 1F90
- PSYC 1F90
- SOCI 1F90
- one Science context credit

Year 2

- CHYS 2F10, 2P35 and 2P38
- GEOG 2P10
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P07, 2P13
- PSYC 2F23

Year 3

- One of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- CHYS 3P10 and 3P15
- one of CHYS 3P20, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P40, 3P43, 3P44, 3P47, 3P60
- GEOG 3P57
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)89 from group A or C (see Geography department)
- one Humanities context credit

Year 4

Students may select one of three options:

Group Thesis option:

- CHYS 4F97 and 4P98 (see program note 5)
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- two GEOG credits numbered 3(alpha)90 or above from group A or C (see Geography department)
- one-half elective credit

Individual Thesis option:

- CHYS 4F99 and 4P98 (see program note 5)
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- two GEOG credits numbered 3(alpha)90 or above from group A or C (see Geography department)
- one-half elective credit

Course Work option:

- One CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one CHYS credit numbered 4(alpha)00 to 4(alpha)99

- two GEOG credits numbered 3(alpha)90 or above from group A or C (see Geography department)
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Child and Youth Studies and Psychology

Honours

This is a specialized Combined Honours program that has students choosing to focus on either Child and Youth Studies or Psychology upon entry to Year 3.

For Child and Youth Studies Focus:

Year 1

- CHYS 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or Science context credit
- one elective credit (see program note 11)

Year 2

- CHYS 2F10, 2P35 and 2P38
- PSYC 2F23
- one PSYC credit numbered 2(alpha)00 to 2(alpha)90
- the Humanities context credit or Science context credit not taken in year 1

Year 3

- One of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- CHYS 3P10 and 3P15
- one of CHYS 3P20, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P40, 3P43, 3P44, 3P47, 3P60
- two PSYC credits numbered 3(alpha)00 to 3(alpha)99
- one elective credit

Year 4

- CHYS 4F97 or 4F99 (see program note 5)
- CHYS 4P98
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00-4(alpha)99
- PSYC 4P92
- one PSYC credit numbered 3(alpha)90 to 4(alpha)99
- one-half elective credit

For Psychology Focus:

Year 1

- PSYC 1F90
- CHYS 1F90
- SOCI 1F90

- one Humanities context credit or Science context credit
- one elective credit (see program note 11)

Year 2

- PSYC 2F23
- one PSYC credit numbered 2(alpha)00 to 2(alpha)00
- CHYS 2F10, 2P35 and 2P38
- the Humanities context credit or Science context credit not taken in year 1

Year 3

- PSYC 3P39
- PSYC 3F40 and one PSYC credits numbered 3(alpha)00 to 3(alpha)99, or PSYC 3P30 and one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- CHYS 3P10
- one of CHYS 3P20, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P40, 3P43, 3P44, 3P47, 3P60
- one-half CHYS credit numbered 3(alpha)00 to 3(alpha)99
- one-half elective credit

Year 4

- PSYC 4F90 or 4F91 (see program note 6)
- PSYC 4P92 and 4P93
- one PSYC credit numbered 3(alpha)90 to 4(alpha)99
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00-4(alpha)99
- one-half elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Child and Youth Studies and Sociology

Honours

Year 1

- CHYS 1F90
- PSYC 1F90
- SOC 1F90
- one Humanities context credit or one Science context credit
- one elective credit (see program note 11)

Year 2

- CHYS 2F10, 2P35 and 2P38
- SOC 2P11 and 2P13 (see program notes 4 and 5)
- one SOC credit numbered 2(alpha)00 or above
- the Humanities context credit or Science context credit not taken in year 1

Year 3

- One of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- CHYS 3P10 and 3P15
- one of CHYS 3P20, 3P23, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P40, 3P43, 3P44, 3P47, 3P60
- one SOC credit numbered 2(alpha)90 or above
- SOC 3P00 and 3P01
- one elective credit

Year 4

Students may select one of four options:

CHYS Group Thesis option:

- CHYS 4F97, 4P38 and 4P98 (see program note 5)
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- SOC 4F91 or one of SOC 3P99, 4P10, 4P11, 4P15, 4P16, 4P70 and one-half SOC credit numbered 3(alpha)90 or above (see program note 9)
- one SOC credit numbered 3(alpha)90 or above
- one-half elective credit

CHYS Individual Thesis option:

- CHYS 4F99 and 4P98 (see program note 5)
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one and one-half SOC credits numbered 3(alpha)90 or above
- SOC 4P38
- one elective credit

SOC Thesis option:

- CHYS 4P38
- one and one-half CHYS credits numbered 4(alpha)00 to 4(alpha)99
- SOC 4F90 and 4F01 (see program note 8)
- one elective credit

Course Work option:

- One CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one CHYS credit numbered 4(alpha)00 to 4(alpha)99
- two SOC credits numbered 3(alpha)90 or above
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Brock/Colleges Articulation Agreement

Child and Youth Worker-Durham College

Year 1

- CHYS 1F90
- PSYC 1F90
- SOC 1F90
- one Humanities Context credit
- one Science Context credit

Spring/Summer Sessions:

- PSYC 2F23

Year 2

- CHYS 2F10, 2P35, 2P38, 3P15 and 3P10
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60
- one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P40, 3P44
- one-half elective credit (see program notes 12 and 13)

Year 3

Individual Thesis Option:

- CHYS 4F99 and 4P98
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- one elective credit (see program notes 12 and 13)

Group Thesis Option:

- CHYS 4F97 and 4P98
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99
- one elective credit (see program notes 12 and 13)

Course Work Option:

- One CHYS credit numbered 3(alpha)90 to 4(alpha)99
- two CHYS credit numbered 4(alpha)00 to 4(alpha)99
- one elective credit (see program notes 12 and 13)

Year 4

taken at Durham College

Year 5

taken at Durham College

Montessori Education-Sheridan College

This program does not lead to an Ontario Certificate of Qualification.

Year 1

CHYS 1F90

PSYC 1F90

SOCI 1F90

one Humanities Context credit

one Science Context credit

Spring Session:

PSYC 2F23

Year 2

CHYS 2F10, 2P35, 2P38, 3P10 and 3P15

one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33

one of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60

one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P40, 3P44

Year 3

taken at Sheridan College

Year 4

Students may select one of three options:

Individual Thesis Option:

CHYS 4F99 and 4P98

one CHYS credit numbered 3(alpha)90 to 4(alpha)99

one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99

one and one-half elective credits (see program note 13)

Group Thesis Option:

CHYS 4F97 and 4P98

one CHYS credit numbered 3(alpha)90 to 4(alpha)99

one-half CHYS credit numbered 4(alpha)00 to 4(alpha)99

one and one-half elective credits (see program note 13)

Course Work Option:

One CHYS credit numbered 3(alpha)90 to 4(alpha)99

two CHYS credits numbered 4(alpha)00 to 4(alpha)99

one and one-half elective credits (see program note 13)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

CHYS 1F90

Introduction to Child and Youth Studies

Theories, methods and issues involved in studying children and youth from a multidisciplinary perspective. Topics may include the history of childhood, family life, peer relations and children and youth with special needs.

Lectures, seminar, 3 hours per week.

Restriction: open to students admitted to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), CHLH, BA (Honours)/BEd (Intermediate/Senior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) until date specified in Registration guide.

CHYS 1M90-1M99

Special Topics

Topic will vary depending on the needs of the program and availability of a faculty instructor.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors.

CHYS 1M95

2009-2010: Child and Youth Studies in Aboriginal Contexts

Theories, methods and issues involved in studying children and youth from a multidisciplinary perspective. Topics may include the developmental psychology, history of childhood, family life, peer relations and children and youth with special needs within an aboriginal education context.

Lectures, seminar, 96 contact hours.

Restriction: open to BEd-Primary/Junior (Aboriginal) majors.

CHYS 2F01

Cognition and Learning

(also offered as EDUC 2F01)

Psychological approaches to cognitive, behavioural, and social development. Cognitive processes in learning and instruction (i.e., assisting students to use appropriate cognitive processes on specific academic tasks). Cognitive theories applied to school subject areas including reading, writing, mathematics, science.

Lectures, seminar, 3 hours per week.

Restriction: open to BA CHYS (Honours)/BEd (Primary/Junior) students with a minimum of 6.0 overall credits.

Prerequisite: CHYS 1F90 or PSYC 1F90.

CHYS 2F10

Child and Youth Development

Basic concepts and contemporary issues in the development of the child and youth, including processes in cognitive and social-emotional patterns of change. Developmental theory and research provides the conceptual framework.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), BA (Honours)/BEd (Intermediate/Senior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), CHLH, LING (single or combined), CHSC, HLSC majors until date specified in Registration guide.

Prerequisite: CHYS 1F90.

Note: students may not concurrently register in PSYC 2P12. A half-day placement per week is required for all students. Placements are available in a variety of settings. School placements for students not enrolled in a Concurrent Education Program are not guaranteed and will depend on availability. School placements are arranged by the Associate Administrative Director, Concurrent Education Programs. Non-school placements are organized by the Child and Youth Studies Course Co-ordinator. Transportation to placement is a student responsibility. Students having school placements require Identification Cards issued by Ontario Education Services Corporation (OESC) based on a satisfactory police record check. Application packages for OESC are available at <http://www.oesc-oseo.org>. Students in non-school placements will be required to make arrangements for a standard police check. For placement purposes,

proof of freedom from active tuberculosis may be required. This course is designed to promote the bridging of disciplines. Failure to submit the completed, signed, placement verification form (Attendance Record) will result in a grade of "F" for the course.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F12 or 2P12.

CHYS 2P35

Diversity and Development

Theoretical aspects of development of children and youth with exceptional needs. Topics may include cognitive, physical and psychological/emotional differences.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), CHLH majors and CODC Certificate students until date specified in Registration guide.

Prerequisite: CHYS 1F90.

* CHYS 2P38

Childhood, Youth and Society

(also offered as SOCI 2P38)

Historical, cross-cultural and sociological perspectives on the relationship between childhood, youth and society. Topics include children and youth in schools, communities, popular culture and state policy.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), SOCI (single or combined) and CHLH majors until date specified in Registration guide.

Prerequisite: CHYS 1F90.

CHYS 2P99

Literacy in Childhood and Youth

(also offered as LING 2P99)

Exploration of selected issues in literacy development. Topics may include reading, writing, the impact of information technology on literacy development in the Canadian or global context.

Lectures, seminar, 3 hours per week.

Prerequisite: LING 1F94 or PSYC 1F90.

CHYS 3F94

Children and Youth with Special Needs

Theoretical and applied issues in assessment and intervention; topics may include field work relationships, ethical issues, participant observation, and issues in program development, application and evaluation. Extended community placement.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or

combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits or permission of the Department.

Prerequisite: one of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60.

Note: enrolment will be limited to the availability of an appropriate match between a student and a child/youth. Transportation to placement is a student responsibility. Screening such as police checks for criminal activity may be required. Cost associated is a student responsibility.

CHYS 3P09

Culture and Mental Health of Children/Youth
Environmental risk factors on the etiology and trajectories of childhood and youth behavioural/emotional disorders. Emphasis on the influence of culture, gender, and race/ethnicity.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10.

CHYS 3P10

Qualitative Research Methods in Child and Youth Studies

Qualitative research design and analysis. Topics include participant observation, interviewing, archival research, discourse analysis, ethics.

Lectures, tutorial, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits.

Prerequisites: CHYS 2F10, 2P35 and 2P38.

* CHYS 3P11

Theories of Development and Socialization
(also offered as PSYC 3P11)

Interdisciplinary exploration of child and youth development and socialization, including the foundational literature in psychology, sociology and anthropology; as well as contemporary and critical interpretive theories of childhood and youth.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and PSYC (single or combined) majors with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90 or permission of the Department.

Prerequisite: CHYS 2F10 or PSYC 2P12 (2F12).

CHYS 3P12

Emotions in Children and Youth

Multidisciplinary consideration of theoretical and applied issues in the development of emotion, including interaction between cognition and emotion, and the role of motivation. Topics may include emotion theories, theory of mind, empathy, motivation, disorders, and cross-cultural perspectives.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10.

CHYS 3P15

Quantitative Research Methods in Child and Youth Studies

Practical, theoretical and ethical issues in quantitative research design including computer applications and analyses.

Lectures, tutorial, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits.

Prerequisites: CHYS 2F10; one of MATH 1F92, PSYC 2F23, SOCI 2P11 and 2P13 (for combined CHYS/SOCI majors).

CHYS 3P20

Learning Disabilities

Current theoretical, methodological and remedial approaches to learning disabilities in children and youth. Cognitive and social aspects of learning disabilities.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P35.

Note: CODC students may register. Contact the Department.

CHYS 3P21

Learning Disabilities: Laboratory

Supervised experience in analysis and evaluation of informal assessment and treatment strategies to be used with children at-risk for learning disabilities.

Lectures, lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits.

Prerequisite: CHYS 3P20.

CHYS 3P23

Psychology of Parenting
(also offered as PSYC 3P23)

Determinants, varieties and consequences of parenting focusing on psychological research findings in contemporary parenting/parenthood issues. Topics include different styles of parenting, parent-child relationships, child maltreatment, parenting children with different temperaments and parenting in ecological contexts.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), CHLH, PSYC (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: CHYS 2F10 or PSYC 2P12 (2F12).

CHYS 3P24

Development of Peer Relationships

Influences of peer relationships on cognitive, social and emotional development. Topics may include social competence, social influence, aggression and bullying.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10.

Note: students may not concurrently register in CHYS 3P77.

Completion of this course will replace previous assigned grade and credit obtained in CHYS (PSYC) 3P77.

CHYS 3P26

Introduction to Infants and Preschoolers with Special Needs

Issues in the assessment of children, as well as preventative and early intervention strategies. Variety of assessment techniques including testing, observation and rating scales.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), CHLH and PSYC (single or combined) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P35.

Note: CODC students may register. Contact the Department.

CHYS 3P27

Policies of Childhood and Youth: Canadian Perspectives

Canadian initiatives in child welfare, education, health and children's rights within a broader global context. Roles of national and local governments, non-governmental organizations, professionals, adults and children.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

CHYS 3P28

Policies of Childhood and Youth: The Rights of the Child

Canadian and global initiatives in child provision, child protection and child participation before and after the 1989 United Nations Convention on the Rights of the Child.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

CHYS 3P30

Embodiment of Children and Youth

How the physical body is experienced and performed in the lives of children and youth.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

CHYS 3P31

Practical and Theoretical Issues in Child and Youth Work

Introduction to key issues in policy and programmatic responses, philosophy, values, roles, ethics and tasks.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

CHYS 3P32

Children, Youth and Popular Culture

Influences of popular culture, including film, television, music, performing arts, video games and literature.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

CHYS 3P35

Developmental Disabilities: Issues of Inclusion

Philosophical and practical issues of inclusion of the child and youth with disabilities in the family, schools and the community.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P35.

Note: CODC students may register. Contact the Department.

CHYS 3P38

Children, Youth and Families

Research on children and youth in families from historical, comparative and contemporary perspectives. Topics may include theories of the family, comparative family relations, issues of social change and policy and their impact on children and youth in the context of family life.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

Note: students may not concurrently register in SOCI (WISE) 2P21.

Completion of this course will replace previous assigned grade and credit obtained in SOCI (WISE) 2P21.

CHYS 3P39

Children, Youth and the Law

Introduction to the ways in which children and youth are regulated through the law in Canada. Exploration of various statutes and provisions relating to education, sexuality, family violence, mental health, and the youth justice system.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd

(Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.
Prerequisite: CHYS 2P38.

CHYS 3P40

Macro Factors Affecting Youth Crime

Multidisciplinary perspectives in understanding youth in conflict with the law. Role of macro factors in the commission of offences, including unemployment, systemic discrimination based upon gender, race and sexuality, and media constructions of youth.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 2F90.

CHYS 3P41

Micro Factors Affecting Youth Crime

Topics may include peers and violence, girls and crime, mental health issues, family violence, restorative justice and rights-based interventions.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 2F90.

CHYS 3P43

Behavioural Challenges of Children and Youth
Factors influencing behavioural challenges presented by children and youth, within a multi-modal paradigm. Use of case examples to illustrate the model from the perspective of assessment and intervention.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P35.

Note: CODC students may register. Contact the Department.

* CHYS 3P44

Gender and Sexuality in Childhood and Youth (also offered as SOCI 3P44 and WISE 3P44)

Historical, cross-cultural and sociological approaches to the development of gender identities and sexuality amongst children and youth. Topics include the role of families, schools, peers and state policies.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), SOCI and WISE (single or combined) majors, SOCI or WISE minors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: one of CHYS 2P38, SOCI 2P11 and 2P13, WISE 2P90, 2P91.

CHYS 3P47

Foundations of Behaviour Analysis and Therapy

Basic learning principles and concepts focusing on research, education, clinical practice and everyday life.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P35 or PSYC 2F23.

Note: not open to students who have completed PSYC 2P45 (2F45) and students may not concurrently register in PSYC 2P45 (2F45). CODC students may register. Contact the Department.

CHYS 3P48

Applications of Behaviour Analysis and Therapy

Diverse habilitative and rehabilitative work with children, youth and families focusing on research, education, clinical practice and everyday life.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 3P47 or PSYC 2P45 (2F45).

CHYS 3P50

Focus on Early Childhood Education I

(also offered as EDUC 3P50)

Early childhood education programs for children from birth to age eight. Topics include the historical and societal influences on early childhood education, program models derived

from theories of learning and child development and research on the effectiveness of these programs.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) students with a minimum of 9.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

Prerequisite: CHYS 2F10 or permission of the instructor.

CHYS 3P52

Early Childhood Education II

(also offered as EDUC 3P52)

Methods in early childhood education programs for children from birth to age eight. Topics include curricula, instructional strategies and evaluative techniques.

Lectures, seminar/lab, 4 hours per week.

Restriction: permission of the instructor.

Prerequisite: EDUC 3P50.

Note: students have a school placement and require Identification Cards issued by Ontario Education Services Corporation (OESC) based on a satisfactory police record check. Application packages for OESC are available at <http://www.oesc-cseo.org>.

CHYS 3P60

Autism

Nature, epidemiology, assessment, treatment and research of Autism and the other Autistic Spectrum Disorders focusing on research, educational and clinical practice.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P35.

Note: CODC students may register. Contact the Department.

CHYS 3P61

Child Language Acquisition: Early Stages

(also offered as LING 3P61 and PSYC 3P61)

Theories, research and methods in early language development. Linguistic stages in the development of child language at the level of grammar and meaning (phonology, morphology, syntax, semantics, pragmatics). Discourse as an indicator of the socialization process. Effect of interaction with care givers. Early bilingualism.

Lectures, seminar, 3 hours per week.

Prerequisite: LING 1P92 and 1P93 or PSYC 1F90.

CHYS 3P65

Thinking and Development

Advanced introduction to major content areas, theoretical approaches and applied issues in the development of thinking in children and youth.
Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10.

Note: students may not concurrently register in PSYC 3P60.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P60.

* CHYS 3P74

Psychology of Computers in Education

(also offered as PSYC 3P74)

Uses of computers in education in light of current theories of child and youth development.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), PSYC (single or combined), BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisites: CHYS 2F10 or PSYC 2P12 (2F12).

Note: this is not a computer programming course.

CHYS 3P77

Social Development

(also offered as PSYC 3P77)

Social competence, aggression, friendship and other topics in social development from a variety of developmental perspectives. Methodological and intervention issues relevant to the study of social development.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P12 (2F12), CHYS 2F10 or permission of the instructor.

Note: students may not concurrently register in CHYS 3P24.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P24.

CHYS 3P80

The Health of Children

(also offered as CHSC 3P80)

Biological, psychological and sociological determinants of health during childhood. Emphasizing a wellness perspective.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), BMED, CHLH, CHSC, HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 1F90 or CHYS 2F10.

CHYS 3P83

Family Conflict and Violence

(also offered as SOCI 3P83)

Conflict within modern family relationships. Contemporary research on spousal violence, power and decision-making, sexual abuse and child abuse. Socio-historical factors contributing to increased family stress. Institutional and interpersonal strategies for reducing family conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), SOCI (single or combined) majors and SOCI minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90.

CHYS 3P94

Childhood, Youth and Equity Issues

Research on contemporary children and youth focusing on how age and generation intersect with social class, race and gender. Topics include children's rights, child poverty and equity strategies.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

CHYS 3P95

Childhood and Youth Through the Ages

Historical conceptions of children, childhood, youth and development, and their relation to contemporary theory and research.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10 or 2P38.

CHYS 3P96

Racism and Constructions of Race

Historical and current construction and effects of race and ethnicity in the lives of children and youth in Canada and globally.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10 or 2P38.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P85 or 4P05.

CHYS 3P99

Contemporary Issues in Childhood and Youth Studies

Current research in the area of child and youth cultures. Topics may include the ethnography of childhood, youth and popular culture.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2P38.

* CHYS 3Q33

Conflict, Contradictions and Development

(also offered as PSYC 3Q33)

Conflict in early human development including the understanding of the causes, management and outcomes of conflicts. Cognitive and social strategies used to resolve conflicts.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and PSYC (single or combined) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10, PSYC 2P12 (2F12) or permission of the instructor.

CHYS 3Q90

Directed Studies

Program of study or research practicum not available among the regular course offerings, designed in consultation with the faculty member directing the course.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits and approval of the co-ordinator.

Note: arrangements must be agreed upon with the co-ordinator prior to registration. Normally taken in conjunction with an honours thesis.

CHYS 3V80-3V99

Special Topics Seminar

The topic will vary depending on the needs of the program and availability of a faculty instructor.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd (Primary/Junior) majors with a minimum of 8.0 overall credits.

CHYS 3V90

2009-2010: Development of Conscience and Self-Regulation

How conscience develops, when it first emerges, and the implications of the development of early conscience for children's future adjustment. Historical, theoretical and applied shifts in focus from single components of conscience and self-regulation to the current emphasis on their integration.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3V80.

CHYS 3V91

2009-2010: Children and Youth in Indigenous Communities

Multidisciplinary exploration of North American and International perspectives on children and youth in Indigenous communities.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior) and CHLH majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10 or 2P38.

CHYS 4F97

Honours Group Thesis

Group research projects providing experience with different methods of data collection and analysis.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined) and majors with a minimum of 14.0 overall credits, approval to year 4 (honours) and permission of the Department.

Prerequisites: CHYS 3P10 and 3P15.

Co-requisite: CHYS 4P98.

Note: students must hold a minimum 75 percent overall average in CHYS 3P10 and 3P15.

CHYS 4F99

Honours Individual Thesis

Research project carried out under the supervision of a faculty adviser.

Restriction: open to CHYS (single or combined) majors with a minimum of 14.0 overall credits, approval to year 4 (honours) and permission of the Department.

Prerequisites: CHYS 3P10 and 3P15.

Co-requisite: CHYS 4P98.

Note: students must hold a minimum 75 percent overall average in CHYS 3P10 and 3P15, and submit a detailed (one page minimum) letter of research interests.

CHYS 4P01

Development of Self and Identity

Multidisciplinary exploration of the development of self and identity in childhood and adolescence, focusing on classic and contemporary theoretical frameworks. Topics include distinction between self-as-subject and self-as-object, unity versus multiplicity in the self, and social construction of selfhood.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4P02

Peer Cultures

Survey of peer cultures emphasizing social structural and interpretive understandings of peer group formation and their impact on child and youth identity.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4P03

Approaches to Family Assessment and Intervention

Theoretical, research and clinical issues pertaining to assessment and intervention with families. Interventions include parent training, self-help groups and family counselling. Focussing on early identification and intervention.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P91.

CHYS 4P04

Early Intervention and Prevention Systems

Examination of community and organizational systemic factors contributing to the prevention of problems, and aiding in early intervention in the lives of children and youth with special needs. Topics include examination of the nature of prevention, and the development and maintenance of coordinated service delivery systems.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4P06

Children in War Zones

Physical, social and psychological consequences of modern warfare on children as both victims and combatants.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in CHYS 4V03.

CHYS 4P16

Children, Youth and Globalization

Political-economic and postmodern perspectives on globalization and its effect on children and youth.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4P22

Critical and Postmodern Theories of Childhood and Youth

Social construction of childhood and youth through approaches oriented toward critiquing and changing society as a whole. Focus on radical, emancipatory forms of inquiry into the relationship of children, youth and contemporary social issues. Theorists may include Foucault, Deleuze, Spivak, Marx, bell hooks, Hardt and Negri.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in CHYS 4V02.

CHYS 4P33

Theoretical and Practical Issues in Conflict Resolutions

Sociocognitive examination of theories and evidence-based practices of conflict resolution interventions. Focus on traditional and recent transformative approaches to resolving peer relational difficulties, and developmental outcomes of functional and dysfunctional resolution.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Note: CHYS 3Q33 highly recommended.

CHYS 4P35

Issues in Diversity and Development

Contemporary issues of social policy and practice affecting the diversity and development of children and youth.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

* CHYS 4P38

Issues in Childhood, Youth and Society

(also offered as SOCI 4P38)

Canadian and international research on childhood and youth in changing societies. Topics include globalization of childhood and youth, child labour, child welfare and Canadian policy.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and SOCI (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours). Prerequisites: CHYS 2P38; one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P44, SOCI 3P36, 3P70.

CHYS 4P39

Sentencing and Punishment of Youth

Philosophical and legal foundations, objectives and process of sentencing and punishment of young offenders in Western societies. Gaps between sentencing theory and practice, and issues such as the roles of plea bargaining, mitigating and aggravating factors, victims, and adult sentences for youth.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: CHYS 3P39 or SOCI 3P62.

* CHYS 4P41

Risk-Taking in Youth

(also offered as PSYC 4P41)

Topics may include youth lifestyle choices, problem behaviour theory, risk and protective factors, competence, and developmental pathways in the context of community, family, peer, and intrapersonal factors.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisites: CHYS 1F90 or PSYC 1F90; one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33, PSYC 3P18.

Note: PSYC majors may register. Contact the Department of Child and Youth Studies.

CHYS 4P44

Advanced Topics in Gender and Sexuality

Theories of gender and sexuality. Development of gender and sexual identities. Historical and cross-cultural investigations, institutional patterns, representations and inequality.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: CHYS 2P38.

CHYS 4P48

Advanced Topics in Applied Behaviour Analysis

Current research applications focusing on research, educational and clinical practice.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: CHYS 3P48 or two of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60.

CHYS 4P50

Trauma and Abuse in the Lives of Children and Youth

Issues in identification, prevention and intervention in trauma and abuse of children and youth. Systemic analysis focusing on family, school and social influences on prevention and recovery.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4P56

Maturation and Development

(also offered as PSYC 4P56)

Influences of brain maturation on psychological development and vice versa.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd (Primary/Junior), NEUR and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits or 5.0 PSYC credits above PSYC 1F90.

Prerequisite: one of CHYS 2F10, PSYC 2P12 (2F12), 2P36 (2F36).

CHYS 4P65

Issues in Thinking and Development

Contemporary issues in learning and cognitive development. Topics may include memory, problem solving, creativity, collaborative thinking processes, moral reasoning and social cognition.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Note: CHYS 3P65 recommended.

CHYS 4P98

Thesis Seminar

Applications of principles of research design and data analysis.

Lectures, seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) majors with a minimum of 14.0 overall credits, approval to year 4 (honours) and permission of the Department.

Prerequisites: CHYS 3P10 and 3P15.

Co-requisite: CHYS 4F97 or 4F99.

Note: students must hold a minimum 75 percent overall average in CHYS 3P10 and 3P15.

CHYS 4Q90

Directed Studies

Program of study or research practicum not available among the regular course offerings, designed in consultation with the faculty member directing the course.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits, approval to year 4 (honours) and approval of the co-ordinator.

Note: arrangements must be agreed upon with the co-ordinator prior to registration. Normally taken in conjunction with an honours thesis.

CHYS 4V00-4V10
Advanced Special Topics

CHYS 4V07

2009-2010: Issues in Multiculturalism

Policy and practice around multiculturalism in Canada and globally. Topics include educational policy, developing perceptions of multiculturalism, cultural diversity and intercultural relations.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4V08

2009-2010: Companion Animals and Children and Youth

Multidisciplinary consideration of the role of companion animals in the social and emotional lives of children and youth. Topics may include animal/child abuse, disability and therapy, empathy and self-esteem, coping and resilience, and sociocultural perspectives.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

CHYS 4V09

2009-2010: Critical Disability Studies in Children and Youth

Key theoretical frameworks in the field of critical disability, including phenomenological, feminist and postmodern approaches.

Seminar, 3 hours per week.

Restriction: open to CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Classics

Chair

Michael J. Carter

Professors Emeriti

Noel Robertson, David W. Rupp

Associate Professors

Barbara Burrell, Michael J. Carter, Allison M. J. Glazebrook, Carol U. Merriam, Richard W. Parker

Assistant Professors

Fanny L. Dolansky, Elizabeth S. Greene, Roberto Nickel, R. Angus Smith, Katharine Témple von Stackelberg

Undergraduate Officer

R. Angus Smith

Academic Adviser

Alisa Cunningham

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Classics is an interdisciplinary field, overlapping all the main areas of the Humanities. The Department of Classics offers two types of courses: courses in Greek or Latin language and literature, and courses in Classics, embracing ancient civilization in all its aspects: literature, philosophy, education, history, religion, art and archaeology. In general, CLAS courses require no knowledge of Greek or Latin.

The Department has special resources for illustrating ancient life. Archaeological training sessions are conducted in the summer in Mediterranean lands. Brock is a contributing member to several research and teaching institutions located in the Mediterranean, including the American School of Classical Studies in Athens and the Canadian Institute in Greece.

The Brock Museum of Cypriote Antiquities contains a representative collection of art and artifacts from the Neolithic period to beyond the Roman Empire. The Niagara Peninsula Society of the Archaeological Institute of America, in conjunction with the Department, organizes archaeological programs and lectures.

Study tours in the Mediterranean are offered jointly by Classics, Visual Arts and other departments.

The brochure Classics at Brock contains additional information about the Department of Classics and its programs. Students are encouraged to consult the Chair, Undergraduate Officer or Academic Adviser to discuss their educational objectives and career plans.

Students are advised that graduate programs in Classics require competence in Greek and Latin. Those considering graduate work in Classics (including classical archaeology) should plan to go beyond the minimum four GREE/LATI credits required in the Classical Studies Honours program.

Language Requirement for Humanities Majors

Students in the Department of Classics are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirement, both half credits must be in the same language. Note that either Greek or Latin may be used to satisfy this requirement.

Program Notes

1. A maximum of one credit in field work may be counted.
2. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Students seeking an Honours degree have a choice of three streams in Classics:

1. Classical Languages emphasizes proficiency in the Greek and Latin languages and knowl-

edge of Greek and Roman literature.

2. Ancient Art and Archaeology examines the cultures of the ancient Mediterranean and Near East from the perspectives of both anthropological archaeology and art history.

3. Classical Studies combines the study of Greek and Roman history, religion and literature-in-translation.

Honours majors should consult with the Undergraduate Officer to arrange a suitable program.

Classical Languages stream

Twelve credits labelled CLAS, GREE or LATI are required for an Honours degree:

- CLAS 3P07, 3P08, 3P09 and 3P10
- one credit from CLAS 2F05, 3F01, 3F02
- one credit from CLAS 3P22, 3P23, 3P24, 3P25
- GREE 2F00
- LATI 2F00
- six GREE or LATI credits (see program note 2)
- one Sciences context credit
- one Social Sciences context credit
- six elective credits

Ancient Art and Archaeology stream

Fourteen credits labelled CLAS, GREE or LATI are required for an Honours degree:

- CLAS 3P07, 3P08, 3P09 and 3P10
- one credit from CLAS 2F05, 3F01, 3F02
- six credits from CLAS 2P27, 2P32, 2P35, 3M20-3M29, 3P22, 3P23, 3P24, 3P25, 3F75, 3V30-3V39, 4V20-4V29, 4V30-4V39 (see program notes 1 and 2)
- one credit from CLAS 3P22, 3P23, 3P24, 3P25
- four GREE or LATI credits (see program note 2)
- one Sciences context credit
- one Social Sciences context credit
- four elective credits

Classical Studies stream

Twelve credits labelled CLAS, GREE or LATI are required for an Honours degree:

- One credit from CLAS 2F05, 3F01, 3F02
- CLAS 3P07, 3P08, 3P09 and 3P10
- one credit from CLAS 3P22, 3P23, 3P24, 3P25
- four CLAS, GREE or LATI credits (see program note 2)
- four GREE or LATI credits (see program note 2)
- one Sciences context credit
- one Social Sciences context credit
- six elective credits

Pass Program

Classical Studies combines the study of Greek and Roman history, religion, literature-in-translation, art and archaeology. Pass majors should consult with the Academic Adviser to arrange a suitable program.

Classical Studies stream

Eight credits labelled CLAS, GREE or LATI are required for a Pass degree:

- One credit from CLAS 3P07, 3P08, 3P09, 3P10
- six CLAS, GREE or LATI credits (see program note 2)
- one GREE or LATI credit (see program note 2)
- one Sciences context credit
- one Social Sciences context credit
- five elective credits

Combined Major Program

A student may combine either an Honours or a Pass program in Classical Studies and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

The Honours program consists of a minimum of seven credits labelled CLAS, GREE or LATI, four of which must be numbered 2(*alpha*)90 or above and, of these, two must be numbered 3(*alpha*)90 or above; two must be GREE or LATI.

The Pass program consists of a minimum of five credits labelled CLAS, GREE or LATI, two of which must be numbered 2(*alpha*)90 or above; one must be a GREE or LATI credit.

Minor in Classics

Students in other disciplines can obtain a Minor in Classics within their degree program by completing the following courses with a minimum 60 percent overall average:

- CLAS 1P91 and 1P92 or CLAS 1P95 and 1P97
- one of CLAS 2F05, 3F01, 3F02
- one credit from CLAS 2P32, 2P35, 3P22, 3P23, 3P24, 3P25
- one credit from CLAS 2P61, 3P07, 3P08, 3P09, 3P10, 3P61
- one of GREE 1F00, LATI 1F00, LATI 2F00

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

CLAS 1P91 Greek Civilization

Literature, art, thought and political evolution of ancient Greece, based on masterworks of classical literature. Slides are used to illustrate classical history and archaeology.
Lectures, seminar, 3 hours per week.

CLAS 1P92 Roman Civilization

Literature, art, thought and political evolution of ancient Rome, based on masterworks of classical literature. Slides are used to illustrate classical history and archaeology.
Lectures, seminar, 3 hours per week.

CLAS 1P93 Culture and Civilization of Central Europe: From the Prehistoric to the Carolingian Period

(also offered as GERM 1P93)

Cultural development of central Europe from the earliest stone and pottery cultures through the Bronze and Iron Ages, the Celts and Romans. Beliefs and practices, artistic style and architecture. Digitized images are used to illustrate the cultural evidence.
Lectures, 3 hours per week.
Note: given in English.

CLAS 1P95 Myths of the Greek and Roman Gods

Traditional story types: nature myths, ritual myths. Diffusion of myths in the ancient world. The creation, the succession in heaven and the individual gods. Functions of myth in ancient society. Modern theories of myth.
Lectures, seminar, 3 hours per week.

CLAS 1P97 Myths of the Heroic Age

Traditional story types: folktale, legend. Concept of a Heroic Age, centres and cycles of legend, pseudo-history. Response to Greek and Roman myths through the ages.
Lectures, seminar, 3 hours per week.

CLAS 2F05 Introduction to Classical Literature

Works of major authors and genres of Greek and Roman literature, emphasizing literary history and conventions of the major genres. Genres include epic, drama, lyric, elegy, pastoral, didactic, novel and satire.
Lectures, 3 hours per week.

Note: all texts read in English.

Completion of this course will replace previous assigned grade and credit obtained in CLAS 3P05 and 3P06.

* CLAS 2P27 Ancient Civilizations of Egypt and the Near East

(also offered as INTC 2P27)

History and material culture of the civilizations of Egypt, Mesopotamia, Iran, Anatolia and Syro-Palestine from the origins of agriculture through the great Iron Age empires emphasizing the revolutionary social, political, economic and artistic achievements of Near Eastern cultures.
Lectures, seminar, 3 hours per week.

CLAS 2P32 Introduction to Archaeology

History, theory and practice of archaeology.
Lectures, seminar, 3 hours per week.

CLAS 2P35 Classical Archaeology

Archaeology and material culture of the Greek and Roman worlds from the Upper Paleolithic to the fourth century AD.
Lectures, seminar, 3 hours per week.

CLAS 2P40 Ancient Sport

Sport and sporting values and their central role in ancient society. Topics include sporting events and facilities, sporting festivals, religious and political connections, intellectual and popular attitudes, a comparison of ancient and modern realities and values.
Lectures, seminar, 3 hours per week.

* CLAS 2P50

Great Myths in Literature and Art
(also offered as IASC 2P50)

Most influential myths in Greek and Latin literature and in ancient art, emphasizing continuity of themes and images. Selected readings in major genres of poetry and prose. Selected works of painting and sculpture.

Lectures, seminar, 3 hours per week.

Prerequisites: CLAS 1P95 and 1P97.

CLAS 2P51

Great Figures of the Ancient World

History, biography and representation in literature, art and modern media of great figures such as Socrates, Alexander the Great, Julius Caesar and Cleopatra.

Lectures, seminar, 3 hours per week.

Prerequisites: CLAS 1P91 and 1P92.

* CLAS 2P61

Women in the Ancient World

(also offered as WISE 2P61)

Women's social roles, environment and legal rights including conceptions of the female and ideals of women. Consideration given to women from other parts of the Mediterranean, such as Etruria, Egypt and the Near East focusing on women in Greek and Roman society. Emphasis on the nature and limitations of the various types of evidence.

Lectures, seminar, 3 hours per week.

* CLAS 3F01

The Ancient Epic Tradition

(also offered as LART 3F01)

Homer's *Iliad* and *Odyssey*, Apollonius Rhodius' *Argonautica*, Vergil's *Aeneid* and Ovid's *Metamorphoses*. Topics include the conventions of epic, the original oral transmission of heroic verse and its transformation into a written genre, concepts of heroic conduct and character.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 1P95, 1P97, 2F05 or one ENGL or LART (GBLS) credit.

Completion of this course will replace previously assigned grade and credit obtained in GBLS 3F01.

* CLAS 3F02

Ancient Drama

(also offered as DART 3F02)

Greek and Roman tragedy and comedy in English translation, including such authors as the tragedians Aeschylus, Sophocles, Euripides and Seneca, and comic playwrights Aristophanes, Menander, Plautus and Terence. Ancient drama in its literary, theatrical and socio-historical contexts.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 1P95, 1P97, 2F05, DART 1F93.

CLAS 3F75

Archaeological Practicum in Mediterranean Lands

Field work including excavation, surveys, lectures, demonstrations and study tours of ancient sites, monuments and museums.

Restriction: permission of the instructor.

Prerequisite: one of CLAS 2P27, 2P32, 2P35, 3P22, 3P23, 3P24, 3P25 or permission of the Department.

Note: students are expected to pay their own expenses.

Completion of this course will replace previously assigned grade and credit obtained in CLAS 4F75.

* CLAS 3M20-3M29

Study in Mediterranean Lands

(also offered as VISA 3M20-3M29)

Topographical investigations of ancient sites and monuments. Study tours of the great cities and museums of the Mediterranean world emphasizing the art and architecture of the Prehistoric, Classical and later periods.

Restriction: permission of the Department.

Note: offered in the Spring or Summer Session for three or four weeks of intensive study abroad. Students are expected to pay their own expenses.

* CLAS 3M24

2009-2010: Study Tour in Turkey

(also offered as VISA 3M24)

Archaeological and art historical investigation in Turkey, including Istanbul, Cappadocia, Aspendos, Kekova, Knidos, Halikarnassos, Pergamon and Troy. Emphasis on the major Greco-Roman sites and monuments as well as later development in Byzantine and Islamic art and architecture.

Restriction: permission of the Department.

Note: offered in the Spring Session for three weeks of intensive study abroad. Students are expected to pay their own expenses.

CLAS 3P07

History of Early Greece

Social and political history of the Greek world from the Bronze Age to 450 BC: Minoans and Mycenaean, Dark Age, colonizing period, tyrants, rise of Sparta, Persian wars, and Athenian Empire. Readings from Greek historians and documents in translation.

Lectures, 3 hours per week.

CLAS 3P08

History of Classical Greece

Social and political history of the Greek world, 450-323 BC. The great war between Athens and Sparta, rivalry of city-states, rise of national states, Alexander the Great. Readings from Greek historians and documents in translation.

Lectures, 3 hours per week.

CLAS 3P09

History of the Roman Republic

History of Rome from the Battle of Actium (31 BC) emphasizing social and political developments from the Gracchi to Julius Caesar.

Lectures, 3 hours per week.

CLAS 3P10

History of the Early Roman Empire

History of Rome from the Battle of Actium to the death of Marcus Aurelius (AD 180) emphasizing social and political developments.

Lectures, 3 hours per week.

* CLAS 3P22

Art and Architecture of Iron Age Italy and the Roman Republic

(also offered as VISA 3P22)

Art and architecture of the cultures of the Italian peninsula, in the first millennium BC, within the framework of cultural change and external influences.

Lectures, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35, VISA 1Q98 and 1Q99.

* CLAS 3P23

Art and Architecture of Rome in the Imperial Age

(also offered as VISA 3P23)

Roman art and architecture from Augustus to Late Antiquity. Christian art and architecture and the influence of Roman aesthetics on the Renaissance and beyond.

Lectures, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35, VISA 1Q98 and 1Q99.

* CLAS 3P24

Art and Architecture of Early Greece

(also offered as VISA 3P24)

Greek art and architecture from the end of the Bronze age through the end of the Archaic period within the framework of historical and cultural change.

Lectures, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35, VISA 1Q98 and 1Q99.

* CLAS 3P25

Art and Architecture of Classical Greece and the Hellenistic World

(also offered as VISA 3P25)

Greek art and architecture from the early Classical era through the Hellenistic period within the framework of historical and cultural change.

Lectures, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35, VISA 1Q98 and 1Q99.

* CLAS 3P61

Gender and Society in Ancient Mediterranean Cultures

(also offered as WISE 3P61)

Ancient constructions of femininity and masculinity and their relationship to the social, political and legal systems of the Greco-Roman world. Topics include the body, sexuality, male and female identities.

Lectures, seminar, 3 hours per week.

Prerequisite: one of CLAS 1P91, 1P92, 2P61, WISE 1F90.

* CLAS 3P62

The Ancient Household

(also offered as WISE 3P62)

Social structure, gender and class roles, religious rituals; Mediterranean domestic space and community relationships, urban infrastructure and social networks.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from CLAS 1P91, 1P92, 2P61, WISE 1F90.

CLAS 3V30-3V39

Survey Topics in Mediterranean Art and Archaeology

Topics in Mediterranean art, architecture and archaeology, offering an overview of selected chronological periods, geographic regions and artistic disciplines.

Prerequisites: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35, VISA 1Q98 and 1Q99.

* CLAS 3V30

2009-2010: Aegean Bronze Age Art and Archaeology

Material culture of the Mycenaean, Minoan and neighbouring cultures.

Lectures, seminar, 3 hours per week.

Prerequisites: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35, VISA 1Q98 and 1Q99.

CLAS 4P00

History of the Hellenistic World, 323-30 BC
Political, social and intellectual history of the Hellenistic world between Alexander and Cleopatra. The Successor states and the Hellenistic balance of power, Greek federalism, Roman intervention, the Library and Museum of Alexandria.

Lectures, seminar, 3 hours per week.

Prerequisites: CLAS 3P07 (2P91) and 3P08 (2P92).

CLAS 4V20-4V29

Special Topics in Archaeology

Selected topics and problems in current archaeological research that pertain to the Mediterranean and to the Near East.

Lectures, seminar, 3 hours per week.

Prerequisite: one of CLAS 2P27, 2P32, 2P35,

3P22, 3P23, 3P24, 3P25 or permission of the Department.

CLAS 4V28

2009-2010: Archaeological Ethics

Ethical, legal and practical dimensions of Classical Archaeology. Topics include archaeology as a profession, the antiquities trade, maritime law, underwater archaeology and treasure hunting, cultural resource management and archaeological education.

Seminar, 3 hours per week.

Prerequisite: one of CLAS 2P27, 2P32, 2P35, 3P22, 3P23, 3P24, 3P25 or permission of the Department.

* CLAS 4V30-4V39

Special Topics in Mediterranean Art and Architecture

(also offered as VISA 4V30-4V39)

Selected topics and problems in current art, historical and archaeological research pertaining to the art and architecture of the ancient Greek or Roman world.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from CLAS 3P22, 3P23, 3P24, 3P25, VISA 1Q98 and 1Q99 or permission of the Department.

* CLAS 4V37

2009-2010: The Age of Augustus: Images and Monuments

(also offered as VISA 4V37)

Achievements of the artists and architects of the age of Augustus and how their works helped transform Rome from the havoc of civil war into an imperial city.

Seminar, 3 hours per week.

Prerequisite: one credit from CLAS 3P22, 3P23, 3P24, 3P25, VISA 1Q98 and 1Q99 or permission of the Department.

CLAS 4V50-4V69

Special Subjects in Classics

Study of a special subject in one of the following areas: Greek and Latin linguistics and literature, Greek and Roman history, philosophy and religion.

Lectures, seminar, 3 hours per week.

Prerequisite: one CLAS credit numbered 2(alpha)90 or above or permission of the Department.

CLAS 4V53

2009-2010: The World of Pericles

Literary, historical, archaeological and artistic developments in Classical Athens, particularly the Age of Pericles.

Seminar, 3 hours per week.

Prerequisite: one CLAS credit numbered 2(alpha)90 or above or permission of the Department.

CLAS 4V54

2009-2010: Greek Historical Writing

Development of Greek historiography in the fifth and fourth centuries BC including all the major figures from Hecataeus to the Alexander historians.

Seminar, 3 hours per week.

Prerequisite: one CLAS credit numbered 2(alpha)90 or above or permission of the Department.

CLAS 4V80-4V89

Advanced Archaeological Fieldwork and Directed Research

Fieldwork and study of archaeological material under the supervision of a faculty member. Restriction: permission of the Department.

Prerequisite: CLAS 3F75 (4F75).

Note: students are expected to pay their own expenses.

CLAS 4V82

2009-2010: Studies in Nemea

Restriction: permission of the Department.

Prerequisite: CLAS 3F75 (4F75).

Note: students are expected to pay their own expenses.

CLAS 4V90-4V99

Advanced Study and Directed Research

Individual study in one of the following areas: archaeology, ancient history, classical literature. Restriction: permission of the Department.

Note: content to be determined by the interests of the student and the advice of the Department.

GREEK

GREE 1F00

Language (Introductory)

Fundamentals of Ancient Greek. Selections from various Greek authors.

Lectures, seminar, 4 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in GREE 1P01 and 1P02.

GREE 2F00

Language and Literature

Intermediate selections from Greek authors. Greek prose composition. Fundamentals of Greek philology.

Lectures, seminar, 4 hours per week.

Prerequisite: GREE 1F00 (1P01 and 1P02) or permission of the department.

Completion of this course will replace previous assigned grade and credit obtained in GREE 2P01 and 2P02.

GREE 3V00-3V09

Greek Epic

Selections from Greek epic (authors and works vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 3V10-3V19

Greek Historians

Selections from the works of the classical Greek historians (authors and selections vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 3V90-3V99

Greek Tragedy

One or more Greek tragedies and/or satyr-drama (authors and works vary from year to year).

Lectures, Seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 4V00-4V09

Attic Oratory

Speeches from the Attic orators (authors and works vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 4V00

2009-2010: *Lysias 1, Against Eratosthenes and Xenophon, Oeconomicus*

Seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 4V50-4V59

Greek Comedy

One or more Greek comedies (authors and works vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 4V50

2009-2010: *Aristophanes, Acharnians*

Seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 4V60-4V69

Greek Philosophy

Selected Greek philosophical works (authors and works vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: GREE 2F00 (2P02) or permission of the instructor.

GREE 4V90-4V99

Advanced Readings and Directed Research
Studies in Greek literature. Content to be de-

termined by the interests of the student and availability of instructors.

Seminar, 3 hours per week.

Restriction: permission of the Department.

LATIN

LATI 1F00

Language (Introductory)

Fundamentals of Latin. Selections from various Latin authors.

Lectures, 4 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in LATI 1P01 and 1P02.

LATI 2F00

Language and Literature

Intermediate selections from Latin authors. Latin prose composition. Fundamentals of Latin philology.

Lectures, seminar, 4 hours per week.

Prerequisite: LATI 1F00 (1P02) or OAC Latin or permission of the Department.

Completion of this course will replace previous assigned grade and credit obtained in LATI 2P01 and 2P02.

LATI 3V00-3V09

Roman Comedy

Selections from Plautus and Terence (authors and works vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 3V10-3V19

Latin Speeches, Letters and Dialogues

Selections from Cicero, Seneca and Pliny the Younger (authors and works might vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 3V90-3V99

Roman Lyric and Elegy

Selections from Horace, Catullus, Tibullus, Ovid and Propertius (authors and works might vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 4V00-4V09

Roman Epic, Didactic and Pastoral Poetry

Selections from Vergil and Lucretius (authors and works might vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 4V01

2009-2010: Vergil, Aeneid

Seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 4V10-4V19

Roman Historians and Biographers

Selections from Caesar, Sallust, Nepos, Livy, Tacitus and Suetonius (authors and works might vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 4V16

2009-2010: Caesar

Seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 4V20-4V29

Roman Satire and Epigram

Selections from Juvenal, Martial and Petronius (authors and works vary from year to year).

Lectures, seminar, 3 hours per week.

Prerequisite: LATI 2F00 (2P02) or permission of the instructor.

LATI 4V90-4V99

Advanced Readings and Directed Research

Studies in Latin literature. Content to be determined by the interests of the student and availability of instructors.

Seminar, 3 hours per week.

Restriction: permission of the Department.

Communication, Popular Culture and Film

Chair

Russell Johnston

Professors

Barry K. Grant, Jim Leach

Associate Professors

Nick Baxter-Moore, Marian Bredin, Barry W. K. Joe, Russell Johnston, Jeanette Sloniowski, Bohdan Szuchewycz

Assistant Professors

Jacqueline Botterill, Dale A. Bradley, Tim Dun, Derek Foster, Greg Gillespie, Jennifer Good, Sarah A. Matheson, Christie Milliken, Bohdan Y. Nebesio

Lecturers

M. Sharon Broderick, Scott Henderson

Adjunct Faculty

Terrance Cox, Joan Nicks

Academic Adviser

Penni Lafleur

General Information

Administrative Assistant

Bridget Cahill

905-688-5550, extension 4290

Scotiabank Hall 344

<http://www.brocku.ca/cpcf>

The Department of Communication, Popular Culture and Film offers three separate programs of study in Communication Studies, Film Studies and Popular Culture. A four-year program leading to the BA Honours degree and a three-year program leading to the BA Pass degree is offered in all three programs. In addition, the Department is involved in programs with community colleges which offer students the opportunity to earn an honours degree in Communication Studies and a college diploma or certificate.

Communication Studies

Communication Studies is a limited enrolment, interdisciplinary program that studies human communicative behaviour, the institutions of communication and the social production of meaning. It has three streams. The streams share a core of COMM courses that focus on distinct areas of interest.

The Business Communication stream combines the study of communication with a study of some aspects of business. The stream aims to equip the student with a sound theoretical basis for analysing and practicing communication within the business environment.

The Digital Culture stream views computer networks, information technology and digital media as integral components of contemporary social and cultural practices. Primary emphasis is placed on the study of new media in relation to communication theory. Students also have opportunities to explore these topics and theories in applied settings.

The Media, Culture and Society stream focuses on the impact of media and communication in the creation of meaning, identity and social change emphasizing the study of media content, audiences and institutions in their political, economic, and social contexts in Canada and elsewhere.

Students are generally advised that choice of stream is based on their interest and aptitude. It is possible to change streams although in some cases this may require additional courses; students should consult the Academic Adviser.

Students admitted to Communication Studies may continue in the program upon successful completion of COMM 1F90 with a minimum 65 percent final grade. A student with a major average lower than 65 percent will not be permitted to continue in Communication Studies.

Please consult the Communication Studies entry for a listing of courses and program requirements.

Film Studies

Film Studies is a sequence of critical and historical courses that examine a variety of approaches to film. The courses explore the nature of film language and develop an analytical perspective on film as both an art and a medium. Other courses explore issues and theories in popular culture. Students may have opportunities to engage in media production in selected upper year courses.

Please consult the Film Studies entry for a listing of courses and program requirements.

Popular Culture

The study of Popular Culture focuses on the communicative practices and experiences of everyday life considered within their cultural, economic, political and social contexts. The undergraduate program in Popular Culture is interdisciplinary in nature, bringing together theoretical and analytical perspectives drawn from both the humanities and the social sciences, and applying them to the study of diverse cultural forms including advertising, film, literature, music, popular entertainment and leisure, radio and television, sport and the worldwide web.

Please consult the Popular Culture entry for a listing of courses and program requirements.

Brock/Colleges Articulation Agreement Program

Please consult the Communication Studies, Policing and Criminal Justice and Popular Culture entries for a listing of program requirements.

Communication Studies

This program is offered through the Department of Communication, Popular Culture and Film

Chair

Russell Johnston

Academic Adviser

Penni Lafleur

General Information

Administrative Assistant

Bridget Cahill

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The Department of Communication, Popular Culture and Film offers three separate programs of study in Communication Studies, Film Studies and Popular Culture. A four-year program leading to the BA Honours degree and a three-year program leading to the BA Pass degree is offered in all three programs. In addition, the Department is involved in programs with community colleges which offer students the opportunity to earn an honours degree in Communication Studies and a college diploma or certificate.

Communication Studies is a limited enrolment, interdisciplinary program that studies human communicative behaviour, the institutions of communication and the social production of meaning. It has three streams. The streams share a core of COMM courses but focus on distinct areas of interest.

The Business Communication stream combines the study of communication with a study of some aspects of business. The stream aims to equip the student with a sound theoretical basis for analysing and practicing communication within the business environment.

The Digital Culture stream views computer networks, information technology and digital media as integral components of contemporary social and cultural practices. Primary emphasis is placed on the study of new media in relation to communication theory. Students also have opportunities to explore these topics and theories in applied settings.

The Media, Culture and Society stream focuses on the impact of media and communication in the creation of meaning, identity and social change, emphasizing the study of media content, audiences and institutions in their political, economic, and social contexts in Canada and elsewhere.

Students admitted to Communication Studies may continue in the program upon successful completion of COMM 1F90 with a minimum final grade of 65 percent. A student with a major average lower than 65 percent will not be permitted to continue in Communication Studies.

Students wishing to transfer into Communication Studies must complete and return the *Request to Declare or Change Major* form to the Registrar's Office by May 15. Late requests will not be accepted.

Emergency Management

The Emergency Management program involves courses offered through Brock and Sheridan College of Applied Arts and Technology. This four-year program combines courses and training in Emergency Management at Sheridan College with an Honours degree in Communication Studies at Brock. The program caters to individuals who wish to have a career in Emergency Management for Regional, Provincial, and National governments, as well as private sector corporations. The program allows students to gain applied skills and training in Emergency Management, and theoretical knowledge about a variety of topics in Communication Studies. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a certificate in Emergency Management from Sheridan College. Gaining both an Honours degree and this certificate would ordinarily involve attending college after gaining a university degree, but the Brock and Sheridan program combines the two in a single integrated package that can be completed in four years. Applicants must complete Year 1 with a minimum 70 per cent major average and a minimum 70 per cent overall average to be considered for admission to the program. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Emergency Management program are available from the Office of the Dean of Social Sciences.

Journalism-Print

The Journalism Print program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines courses and training in journalism/print settings at Niagara College with an Honours degree in Communication Studies at Brock. The program caters to individuals who wish to have a career in journalism. The program allows students to gain applied skills and training, and theoretical knowledge about a variety of topics in Communication Studies. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a diploma in Journalism-Print from Niagara College. Gaining both an Honours degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package that can be completed in four years. Applicants must complete Year 1 with a minimum 70 per cent major average and a minimum 70 per cent overall average to be considered for admission to the program. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Journalism-Print program are available from the Office of the Dean of Social Sciences.

Policing and Criminal Justice

The Policing and Criminal Justice program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines training in policing and criminal justice with an education in a chosen academic discipline, which may be Communication Studies, Human Geography, Political Science, Psychology or Sociology. For students majoring in Communication Studies, this four-year program leads to a BA (Honours) in Communication Studies and a diploma in Police Foundations from Niagara College. The program caters to the increasing demand in society for professionals who possess both solid applied skills and the substantive knowledge needed to apply them to the areas of policing and criminal justice. Normally, this involves attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package. Enrolment is limited.

Please consult the Policing and Criminal Justice entry for a listing of program requirements.

Public Relations

The Public Relations program involves courses offered through Brock and Mohawk College of Applied Arts and Technology. This four-year program combines courses and training in Public Relations at Mohawk College with an Honours degree in Communication Studies at Brock. The program caters to individuals who wish to have a career in public relations. Students who enter this program will complete work at both Brock University and Mohawk College in Hamilton. Enrolment in this program is limited, and admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Public Relations program are available at www.brocku.ca/fss/collaborative.php.

Program Notes

1. All Communication Studies majors must meet the requirements for one of the streams.
2. Eligibility to continue in Communication Studies in Year 2 and 3 requires a minimum 65 percent major average. The major average is calculated using all COMM courses and all required upper-year courses. Students who do not achieve the required major average may request an opportunity to upgrade their marks and be reinstated subject to departmental approval.
3. Students must apply to the department to proceed to year 4 (honours) of the program. Admission requires a minimum 70 percent major average and a minimum 60 percent overall average.
4. Students in the Business Communication stream must take their elective credits from outside the Faculty of Business.
5. WRIT 1P93 is recommended.
6. COMM 3P18, 3P92 and 4P51 recommended for Emergency Management students.
7. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be

numbered 2(alpha)00 or above.

Honours Program

Business Communication Stream

Year 1

- COMM 1F90
- FILM 1F94
- MGMT 1P51 and 1P52
- POLI 1F90 or ECON 1P91 and 1P92
- one Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P17, 2P20 and 2P65
- MKTG 2P51 and 2P52
- one elective credit (see program notes 4 and 5)

Year 3

- COMM 3P14, 3P15, 3P18, 3P62 and 3P65
- one-half COMM credit numbered 2(alpha)90 or above
- OBHR 2P51 and 2P52
- one elective credit

Year 4

- One COMM credit numbered 4(alpha)00 or above
- one COMM credit numbered 3(alpha)90 or above
- two credits from MGMT, MKTG, OBHR numbered 3(alpha)90 or above
- one elective credit

Digital Culture Stream

Year 1

- COMM 1F90
- APCO 1P00 and 1P01
- FILM 1F94
- one Sciences context credit
- one Social Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P17, 2P20, 2P26 and 2P90
- one-half credit from COMM 2P16, 2P18, 2P21, 2P27, 2P51, 2P65, 2P95
- one elective credit (see program note 5)

Year 3

- COMM 2P91, 3P14, 3P15, 3P18 and 3P90
- COMM 3P91 or 3P92
- one COMM credit numbered 2(alpha)90 or above
- one elective credit

Year 4

- Two COMM credits numbered 4(alpha)00 or above
- two COMM credits numbered 3(alpha)90 or above
- one elective credit

Media, Culture and Society Stream

Year 1

- COMM 1F90
- ENGL 1F91 or 1F95
- FILM 1F94
- one Sciences context credit
- one Social Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P17, 2P20 and 2P51
- one COMM credit or one of FILM 2F90, LING 1F94, PCUL 1F92, VISA 1Q98 and 1Q99
- one elective credit (see program note 5)

Year 3

- COMM 3P14, 3P15, 3P18, 3P20 and 3P21
- one-half COMM credit
- one COMM credit numbered 2(alpha)90 or above
- one elective credit

Year 4

- Two COMM credits numbered 4(alpha)00 or above
- two COMM credits numbered 3(alpha)90 or above
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program in any stream entitles a student to apply for a Pass degree.

Brock/Colleges Articulation Agreement

Emergency Management - Sheridan College

Year 1

- COMM 1F90
- FILM 1F94
- WRIT 1P93 and 1P96
- one Sciences context credit
- one Social Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P20, 2P51, 2P65 and 3P14
- one COMM credit numbered 2(alpha)90 or above
- one-half elective credit

Year 3

- taken at Sheridan College

Year 4

- COMM 3P15 and 3P18
- one-half COMM credit numbered 2(alpha)90 or above (see program notes 6 and 7)
- one COMM credit numbered 3(alpha)90 or above (see program notes 6 and 7)
- two COMM credits numbered 4(alpha)00 or above (see program notes 6 and 7)
- one-half elective credit

Journalism-Print-Niagara College

Year 1

- COMM 1F90
- FILM 1F94
- ENGL 1F91 or 1F95
- one Social Sciences Context credit
- one elective credit (see program note 2)

Year 2

- COMM 2F50, 2P15, 2P18, 2P20 and 2P51
- one COMM credit numbered 2(alpha)90 to 3(alpha)99
- WRIT 3P18
- one-half elective credit

Year 3

- taken at Niagara College of Applied Arts and Technology

Year 4

- COMM 3P14, 3P15 and 3P18
- one-half COMM credit numbered 3(alpha)90 to 4(alpha)99
- two COMM credits numbered 4(alpha)00 to 4(alpha)99
- WRIT 3P98
- one-half elective credit

Policing and Criminal Justice-Niagara College (Honours only)

Consult the Policing and Criminal Justice entry for a listing of program requirements.

Public Relations- Mohawk College

Business Communication Stream

Year 1

- COMM 1F90
- FILM 1F94
- MGMT 1P51 and 1P52

- ECON 1P91 and 1P92 or POLI 1F90
- one Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P20, 2P21, 2P65 and 3P14
- one COMM credit numbered 2(alpha)90 or above
- one-half elective credit (WRIT 1P93 or 1P94 recommended)

Year 3

- taken at Mohawk College

Year 4

- COMM 3P15, 3P18 and 3P65
- one COMM credit numbered 3(alpha)90 or above
- two COMM credits numbered 4(alpha)00 or above
- one-half elective credit

Digital Culture Stream

Year 1

- COMM 1F90
- APCO 1P00 and 1P01
- FILM 1F94
- one Sciences context credit
- one Social Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P20, 2P21, 2P65 and 3P14
- one COMM credit numbered 2(alpha)90 or above
- one-half elective credit (WRIT 1P93 or 1P94 recommended)

Year 3

- taken at Mohawk College

Year 4

- COMM 3P15, 3P18 and 3P65
- one COMM credit numbered 3(alpha)90 or above
- two COMM credits numbered 4(alpha)00 or above
- one-half elective credit

Media, Culture and Society Stream

Year 1

- COMM 1F90
- ENGL 1F91 or 1F95
- FILM 1F94
- one Sciences context credit
- one Social Sciences context credit

Year 2

- COMM 2F50, 2P15, 2P20, 2P21, 2P65 and 3P14
- one COMM credit numbered 2(alpha)90 or above
- one-half elective credit (WRIT 1P93 or 1P94

recommended)

Year 3

- taken at Mohawk College

Year 4

- COMM 3P15, 3P18 and 3P65
- one COMM credit numbered 3(alpha)90 or above
- two COMM credits numbered 4(alpha)00 or above
- one-half elective credit

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

COMM 1F90

Introduction to Communication

Approaches and issues in communication from both humanities and social science perspectives. Topics include the cultural use of symbols and signs, qualitative and quantitative mass media analysis, critical analysis of texts, the cultural character of the Canadian media and the impact of the media and media institutions upon society.

Lectures, seminar, 3 hours per week.

COMM 2F50

Communication Theory

Systems theory, semiotic and cognitive approaches to message production and reception, symbolic interactionism and other constructivist approaches, interpersonal and group communication theories, communication analysis and theories of the mass media and their functions in society.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM, PCUL and FILM (single and combined) majors until date specified in Registration guide.

Prerequisite: one of COMM 1F90, FILM 1F94, PSYC 1F90, SOCI 1F90 or permission

of the instructor.

COMM 2F92

Popular Narrative

(also offered as ENGL 2F92 and PCUL 2F92)
Textual and contextual analysis of popular literary genres such as the detective novel, gothic fiction, science fiction and the romance novel; adaptation of popular novels to a variety of other media forms.

Lectures, seminar, lab, 4 hours per week.

Prerequisite: one of COMM 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99, FILM 1F94, PCUL 1F92 or permission of the instructor.

COMM 2P14

Technical Writing

(also offered as WRIT 2P14)

Processes of technical writing and editing. Document design for scientific, corporate and industrial communication. Practical experience in the production of technical documents.

Lectures, lab, 3 hours per week.

Prerequisite: one credit from COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, WRIT 1(alpha)90 to 1(alpha)99 or permission of the instructor.

COMM 2P15

Communication Research Methods

(also offered as PCUL 2P15)

Introduction to qualitative and quantitative methods for communication and popular culture research.

Lectures, lab, 3 hours per week.

Restriction: open to COMM and PCUL majors until date specified in Registration guide.

Prerequisite: COMM 1F90, PCUL 1F92 or permission of the instructor.

COMM 2P16

Communication for Organizations

(also offered as WRIT 2P16)

Theory, strategies and practice of writing for both business and public organizations.

Lectures, lab, 3 hours per week.

Prerequisite: one credit from COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, WRIT 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* COMM 2P17

Communication and Public Policy

(also offered as PCUL 2P17)

Historical trends in objectives and implementation of communication policies. Topics include public broadcasting, subsidies, protection, regulation and effect of international trade on domestic media policy.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and PCUL majors until date specified in Registration

guide.

Prerequisite: COMM 1F90 or PCUL 1F92.

COMM 2P18

Reporting and News Writing for Mass Media

(also offered as WRIT 2P18 and PCUL 2P18)

News gathering, writing and editing for print and electronic media; journalistic style and conventions; interviewing and other information-gathering techniques; editing basics.

Lectures, lab, 3 hours per week.

Restriction: open to COMM, EWRT, PCUL majors and WRIT minors until date specified in Registration guide.

Prerequisite: one credit from COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, PCUL 1F92, WRIT 1(alpha)90 to 1(alpha)99 or permission of the instructor.

COMM 2P20

Popular Culture Theory and Research Methods

(also offered as FILM 2P20 and PCUL 2P20)

Theoretical and methodological approaches to the study of various forms of popular culture. Critical and research skills specific to studies in popular culture.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to COMM, FILM (single or combined) and PCUL majors until date specified in Registration guide.

Prerequisite: one of COMM 1F90, CANA 1F91, FILM 1F94, PCUL 1F92 or permission of the instructor.

COMM 2P21

Canadian Popular Culture

(also offered as FILM 2P21 and PCUL 2P21)

Survey of the media in Canada. Studies in the popular arts, with special reference to the ways that institutions (CBC, NFB) and selected artists identify and express a Canadian cultural imagination.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to COMM, FILM (single or combined) and PCUL majors until date specified in Registration guide.

Prerequisite: COMM 2P20 or permission of the instructor.

* COMM 2P22

Media and Sport

(also offered as PCUL 2P22 and SPMA 2P22)

Representation of sport in film, television and advertising. Topics may include issues of race, gender, business, politics and ideology in both professional and non-professional sports.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM, PCUL and SPMA majors with a minimum of 5.0 overall credits or permission of the instructor.

COMM 2P26

The Information Society

Relationship between information technologies and social and political practices since the 19th century. Historical development of information technologies, role of technology in society, critical theory of technology, and concepts of control.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM majors until date specified in Registration guide.

Prerequisite: COMM 2P20

COMM 2P27

Introduction to Digital Imaging

(also offered as IASC 2P27 and VISA 2P27)

Principles in digital imaging: digital cameras and image capture; digital negatives; colour management; image adjustment and enhancement and image output. History of photography, imaging and critical analysis of visual culture.

Lectures, lab, 5 hours per week.

Restriction: open to COMM, IASC (single or combined) VISA (single or combined) and VISA (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of COMM 1F90, APCO 1P00 and 1P01, IASC 1F00, VISA 1P97 or permission of the instructor.

Note: enrolment limited to 24 students. Materials fee required.

COMM 2P51

Language and Communication

Interconnections between language and its cultural and communicative meanings in terms of their situational, interactional, and functional features.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 1F90.

COMM 2P54

Documentary Film

(also offered as FILM 2P54 and SOCI 2P54)

History, theory, aesthetics and cultural implications of documentary film and other visual media.

Lectures, seminar, 3 hours per week; plus weekly film lab.

Prerequisite: one of FILM 1F94, COMM 1F90, SOCI 1F90 or permission of the instructor.

COMM 2P55

Interpersonal Communication

(also offered as SOCI 2P55)

Perspectives on human communication including both verbal and non-verbal communication.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and SOCI (single or combined) majors and SOCI minors until date specified in Registration guide.

Prerequisite: COMM 1F90 or SOCI 1F90.
Completion of this course will replace previous assigned grade and credit obtained in RECL 3P14 and SOCI 2P58.

COMM 2P56

Canadian Cinema

(also offered as FILM 2P56 and PCUL 2P56)
Critical and historical study of Canadian cinema.

Lectures, seminar, 3 hours per week; plus weekly film lab.

Prerequisite: one of FILM 1F94, COMM 1F90, PCUL 1F92 or permission of the instructor.

COMM 2P65

Organizational Culture

Comparison of competing approaches and contemporary debates in cultural analysis of organizations.

Lectures, seminar, 3 hours per week.

Restriction: open to CSBC majors until date specified in Registration guide.

Prerequisite: COMM 1F90.

COMM 2P70

Popular Music and Society

(also offered as MUSI 2P70, PCUL 2P70 and SOCI 2P70)

Critical approaches to popular music in its social, cultural, political, and economic contexts.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to COMM, MUSI (single or combined), PCUL and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: one of COMM 1F90, MUSI 1F00, 1F50, PCUL 1F92, SOCI 1F90 or permission of the instructor.

* COMM 2P90

Computer-Mediated Communication

(also offered as IASC 2P90)

Nature of computer-mediated communication (CMC) and its role in social, educational and interpersonal contexts. Introduction to technology and methodologies essential to explore the potential of CMC.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 1F90, IASC 1F00 or permission of the instructor.

* COMM 2P91

Hypertext: Reading and Writing in New Spaces

(also offered as IASC 2P91)

Theory, philosophy and politics of Hypertext as a communicative mode. Topics include critical theory in a Hypertext context, changing perceptions of reader narrative, new forms of Hypertext fiction and Hypertext compared

with other electronic textuality.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2P90 or permission of the instructor.

COMM 2P94

Popular Cinema

(also offered as FILM 2P94 and PCUL 2P94)

Popular cinema as art and institution emphasizing film genres and cultural contexts.
Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 1F94 or PCUL 1F92.

COMM 2P95

Introduction to Web-based Interactive Media
(also offered as APCO 2P95, IASC 2P95 and VISA 2P95)

Basic technical and design foundations of web-based media production, including image processing, interactive web design and multimedia production. Contemporary digital practices within the broader history of cultural production, tracing developments in technology and media arts.

Lectures, lab, 5 hours per week.

Restriction: open to COMM, IASC (single or combined), VISA (single or combined) and VISA (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of COMM 1F90, APCO 1P00 and 1P01, APCO 2P89, IASC 1F00, VISA 1P97.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials and equipment which they must supply.

COMM 2Q98

Introduction to Canadian Public Administration

(also offered as LABR 2Q98 and POLI 2Q98)
Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; human resources and budgetary processes; ethics and accountability.

Lectures, seminar, 3 hours per week.

Prerequisite: one of COMM 1F90, LABR 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor. Completion of this course will replace previous assigned grade and credit obtained in POLI 2F98 or 3P50.

COMM 3F28

Basic Production: Video

(also offered as FILM 3F28)

Introduction to the theory and practice of video techniques: critique of video and production work.

Workshops, seminar, 3 hours per week; additional

production time as required.

Restriction: permission of the Department.

Prerequisite: two FILM credits.

Note: enrolment limited to 15 students.

Materials fee required.

COMM 3F71

Internship in Communication Industries

Internship emphasizing the economic and social contexts of media organizations, businesses and technology systems.

Tutorial, 3 hours per week; plus internship placement time.

Restriction: open to COMM (Business Communication stream) majors with a minimum of 10.0 overall credits, a minimum 70 percent major average, a minimum 60 percent non-major average and permission of the Undergraduate Program Adviser.

Note: students are responsible for arranging their placement with a prospective employer and arranging their course with a faculty supervisor, in consultation with the Undergraduate Program Adviser, before registration. Enrolment limited to a maximum of 15 students.

COMM 3P01

Directed Reading

Tutorial combined with one or more research papers or projects in an area of Communication Studies of mutual interest to the student and instructor.

Restriction: permission of the Undergraduate Program Adviser.

Note: students are responsible for arranging their course with a faculty member in consultation with the Undergraduate Program Adviser and must submit a written contract signed by the faculty member to the Undergraduate Program Adviser before registration.

* COMM 3P14

Media Industries

(also offered as PCUL 3P14 and SOCI 3P14)
Media industries emphasizing Canadian media production in its economic, political and technological environments.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM, FILM (single and combined), PCUL and SOCI (single and combined) majors with a minimum of 8.0 overall credits.

Prerequisite: COMM 2P20 or SOCI 2P12.

* COMM 3P15

Media Analysis

(also offered as PCUL 3P15)

Introduction to methods of media analysis. Comparison of theoretical and methodological approaches to mass media content, production consumption, and reception.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and PCUL majors with a minimum of 8.0 overall credits.
Prerequisite: COMM 2P15.

COMM 3P17

Politics and the Mass Media in Canada

(also offered as POLI 3P17)

Canadian mass media and their relationship to the political process.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2F50, one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

* COMM 3P18

Audience Studies

(also offered as FILM 3P18 and PCUL 3P18)

Theoretical and methodological approaches to the understanding of audiences for media and cultural products, including print, sound, film, broadcasting, and digital media.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2P15 and 2P20 or FILM 2F90.

COMM 3P20

Television Studies

(also offered as FILM 3P20 and PCUL 3P20)

Historical, theoretical and critical approaches to television.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to COMM, FILM (single or combined), PCUL and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: COMM 2P20, FILM 2F90 or permission of the instructor.

COMM 3P21

Canadian Television

(also offered as FILM 3P21 and PCUL 3P21)

Historical, theoretical and critical approaches to Canadian television.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to COMM, FILM (single or combined), PCUL and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: COMM 3P20 or permission of the instructor.

* COMM 3P26

Social and Political Aspects of Digital Gaming

(also offered as IASC 3P26 and PCUL 3P26)

Critical investigation of digital gaming, particularly of the interrelationships among communication, media, computing and software development.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum 9.0 overall credits or permission of the instructor.

Prerequisite: COMM 2P20 or IASC 2F00.

COMM 3P33

Psychology of Intergroup Behaviour

(also offered as PSYC 3P33)

Social psychological theories and research in the area of intergroup relations and intergroup conflict. Topics include realistic conflict theory, social identity theory, social exchange, relative deprivation and research on intergroup perceptions and attitudes. Current issues/controversies and implications for the resolution of intergroup conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and PSYC (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90

COMM 3P51

Language and Public Communication

Constitutive function of language in public affairs. Topics may include the role of language in public discourse, social issues and movements, and social, political and cultural activism.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2F50.

COMM 3P54

Issues in Documentary Film

(also offered as FILM 3P54 and SOCI 3P54)

Advanced studies in selected aspects of documentary film and other visual media.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: COMM 2P54.

* COMM 3P55

Advertising in Context

(also offered as PCUL 3P55)

Methodological and critical approaches to contemporary advertising in its cultural, social and political-economic contexts.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2P20 or permission of the instructor.

COMM 3P56

Issues in Canadian Cinema

(also offered as FILM 3P56)

Advanced studies in selected aspects of Canadian cinema.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: COMM 2P56.

COMM 3P62

Public Relations and Integrated Marketing Communication

Examination of the public relations process; role, functions, historical evolution and relevance to effective marketing

communication strategy.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM (Business Communication stream) majors with a minimum of 9.0 overall credits.

Prerequisite: MKTG 2P52.

* COMM 3P63

Desktop Publishing and Design

(also offered as WRIT 3P63 and PCUL 3P63)

Practicum in desktop publishing, layout and design.

Lectures, lab, 3 hours per week.

Restriction: open to COMM, EWRI, PCUL majors and WRIT minors with a minimum of 9.0 overall credits.

COMM 3P65

Organizational Communication

Critical examination of the theories and practices relating to the process of communication in various organizational contexts.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM majors with a minimum of 9.0 overall credits.

Prerequisite: COMM 2P65.

COMM 3P69

Geography of Cultural Industries

(also offered as GEOG 3P69 and PCUL 3P69)

Theories and models of cultural production including, Cave's organizational model of cultural industries, Scott's model of cultural-product agglomerations, Veblen's theory of the leisure class, and Bordieu's work on the creative field and habitus. Geography of artistic attraction and regional impacts of cultural policies.

Lectures, seminar, 4 hours per week.

Restriction: open to COMM, GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and PCUL majors until the date specified in Registration guide.

Prerequisites: COMM 2P20 or GEOG 2P02; GEOG 2P01, 2P06 or permission of the instructor.

COMM 3P73

Popular Music and Youth Culture

(also offered as MUSI 3P73, PCUL 3P73 and SOCI 3P73)

Cultural relationship between young people and popular music. Topics include music's role in the formation of identity, the connection between musical taste and various forms of youth fashion or style, and the impact of new technologies on the ways in which young people access music.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM, MUSI (single and combined), PCUL and SOCI (single and combined) majors with a minimum of 8.0

overall credits or permission of the instructor.

COMM 3P75

Cultures of Consumption

(also offered as PCUL 3P75)

Commodities within social life. Topics may include gift giving, shopping malls, identity and status, lifestyles, romanticism and hedonism, and ethical or alternative consumption.

Lectures, seminar, 4 hours per week.

Restriction: students must have minimum of 9.0 overall credits or permission of the instructor.

Prerequisite: COMM 2P20.

COMM 3P80

Psychology of Interpersonal Behaviour

(also offered as PSYC 3P80)

Social psychology of interpersonal attraction and relationships, as studied through experimental, correlational and longitudinal designs. Reinforcement, exchange, attributional, equity and balance models. Levels of relationships. Aspects of the maintenance and dissolution of relationships and of interpersonal psychopathology.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM, PSYC (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

* COMM 3P90

Advanced Topics in Digital Culture

(also offered as IASC 3P90)

Explorations of topics such as virtual communities, cyber-identity/identities and cyber-spirituality.

Lectures, lab, seminar, 4 hours per week.

Prerequisite: COMM 2P90 or permission of the instructor.

COMM 3P91

Information Technology: Policies and Issues

Historical perspectives on information policy, including impact of deregulation and emerging digital technologies. Topics may include privacy, security, copyright, intellectual property, open source software, Internet regulation and universal access.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2F50 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit earned in COMM 4V61.

* COMM 3P92

Technology and Culture

(also offered as IASC 3P92 and PCUL 3P92)

Exploration of mutually productive relationships among cultural practices and technologies, using historical and

contemporary examples.

Lectures, seminar, 3 hours per week.

Prerequisite: one of COMM 2P20, 2P21, IASC 1F00 or permission of the instructor.

* COMM 3P93

Media and Minorities

(also offered as PCUL 3P93 and SOCI 3P93)

Relations between mass media and minority groups in society including dominant representations and stereotypes of cultural, racial and sexual minorities and minority group access to alternative forms of media production.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of COMM 2F50, 2P21, SOCI 2P11 and 2P13 or permission of the instructor.

COMM 3P94

Film Genre

(also offered as FILM 3P94 and PCUL 3P94)

Genre theory and its application to popular film.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: COMM 2P20 and 2P21, FILM 2F90 or permission of the instructor.

COMM 3P96

Issues in Popular Culture

(also offered as FILM 3P96 and PCUL 3P96)

Specialized studies in popular culture and its role in specific social, historical or theoretical contexts.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: COMM 2P20 and 2P21 or FILM 2F90.

COMM 3P97

Gender, Race and Class in Cinema to the 1960s

(also offered as FILM 3P97 and WISE 3P97)

Representation of gender, sexuality, race and class, and implications of spectatorship and ideology.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of COMM 2P20 and 2P21, FILM 2F90, WISE 2P91, or permission of the instructor.

COMM 3P98

Gender, Race and Class in Contemporary Cinema

(also offered as FILM 3P98 and WISE 3P98)

Representation of gender, sexuality, race and class via ideology, feminism, queer theory and spectatorship in film and video texts since the 1960s.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of COMM 2P20 and 2P21, FILM 2F90, WISE 2P91, or permission of the

instructor.

COMM 3Q93

Issues in International Communication

Current theory and research in international communication; evolution of communication networks and global media flows within their historical, political and economic contexts.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2F50 or permission of the instructor.

COMM 3Q94

Television Genres

(also offered as FILM 3Q94 and PCUL 3Q94)

Genre theory and its application to popular television.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: COMM 2P20 and 2P21, FILM 2F90 or permission of the instructor.

COMM 3Q95

Issues in Intercultural Communication

Current theory and research in intercultural communication; relationship between communication and culture; comparison of communication codes and norms emphasizing face-to-face interaction.

Lectures, seminar, 3 hours per week.

Prerequisite: COMM 2F50 or permission of the instructor.

COMM 3V50-3V59

Special Topics in Communication Studies

Lectures, seminar, 3 hours per week.

Prerequisites: COMM 2F50, 2P20 and 2P21 or permission of the instructor.

COMM 4F80

Directed Reading

Directed individual or group reading in an area of communication studies.

Restriction: open to COMM majors with a minimum of 14.0 overall credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Note: students are responsible for arranging their course with a faculty member in consultation with the Undergraduate Program Adviser and must submit a written contract, signed by the faculty member, to the Undergraduate Program Adviser, before registration. The reading may not be on the topic or with the faculty member of the student's COMM 4F99 thesis.

COMM 4F99

Honours Thesis

Thesis to be based on individual study and research carried out under the supervision of a faculty adviser.

Restriction: open to COMM majors with a

minimum of 14.0 overall credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Note: to register in the Honours thesis, the student must consult the Undergraduate Program Adviser about topics, department regulations and the selection of an adviser.

COMM 4P10

Language and Discourse: Theory and Practice (also offered as ENGL 4P10 and WRIT 4P10) Analysis of the relation between stylistic features and discursive contexts; encoding and enacting of social worlds and relations in text (both literary and non-literary); introduction to the field of discourse studies in general and critical discourse analysis in particular.

Seminar, 3 hours per week.

Restriction: open to COMM, ECUL, ENGL (single or combined), ENGL (Honours)/BEEd (Intermediate/Senior), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4, and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

* COMM 4P14

Advanced Research in Cultural Industries (also offered as PCUL 4P14)

Advanced research into the national and international development, operations, and political economy of a single cultural industry. Topics may include press, periodicals, radio, music, film, television or interactive media industries.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and PCUL majors with approval to year 4 (honours) or permission of the instructor.

* COMM 4P17

Communication and Cultural Policy (also offered as PCUL 4P17)

Advanced research on public policy objectives and instruments for the arts, cultural industries, public and private broadcasting in Canada and internationally.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and PCUL majors with approval to year 4 (honours) or permission of the instructor.

* COMM 4P18

Media and the Natural Environment (also offered as PCUL 4P18)

Media constructions of the natural environment, environmental movements and environmental issues such as pollution, climate change and consumerism.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM and PCUL majors with approval to year 4 (honours) or

permission of the instructor.

COMM 4P23

Research on Media and Popular Culture

(also offered as PCUL 4P23 and SOCI 4P23) Advanced research seminar on the relations between mass media and popular culture.

Seminar, 3 hours per week.

Restriction: open to COMM, PCUL and SOCI (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

Prerequisite: COMM 3P14 or 3P15.

COMM 4P30

Theories of Mass Culture

(also offered as FILM 4P30 and PCUL 4P30) Studies in cultural theory and its application to mass media texts, with special reference to the work of the Frankfurt School, French Structuralism and British Cultural Studies.

Lectures, seminar, 3 hours per week.

Restriction: open to FILM (single or combined) and PCUL until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 honours or permission of the instructor.

COMM 4P31

Theories of the Visible

(also offered as FILM 4P31 and PCUL 4P31) Central 20th-century developments in theories of visibility and their relevance to the field of media studies.

Lectures, seminar, 3 hours per week.

Restriction: open to FILM (single or combined) and PCUL until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 honours or permission of the instructor.

COMM 4P32

Comparative Mass Media

(also offered as POLI 4P32)

Selected problems concerning the mass media and the political process in Canada and other countries.

Seminar, 3 hours per week.

Restriction: open to COMM and POLS majors with a minimum of 14.0 overall credits and either a minimum 70 percent major average and a minimum 60 percent non-major average or approval to year 4 (honours).

Prerequisite: COMM 3P17 or permission of the instructor.

COMM 4P33

Gender and Communication

Scholarly theory, social scientific studies, and critical analyses of gender and communication across a range of contexts, including personal relationships, organizations and the media. Application of course material to everyday communication and interaction.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM majors with approval to year 4 (honours) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in COMM 4V59.

COMM 4P34

Taste and Cultural Politics

(also offered as FILM 4P34 and PCUL 4P34) Application of cultural theories to the analysis of taste, distinction, class, cultural standards and moral panics, transgression and trash culture.

Lectures, seminar, 3 hours per week.

Restriction: open to FILM (single or combined) and PCUL until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 honours or permission of the instructor.

COMM 4P50

Ethnography of Communication

Anthropological approaches to cultural variations in communication, particularly verbal communication. Purposes to which speech is put and the way it is organized for these purposes in different cultural contexts.

Lectures, seminar, 3 hours per week.

Restriction: open to COMM majors with approval to year 4 (honours) or permission of the instructor.

COMM 4P51

Language and Power

Role of language in the creation and maintenance of ideology and power structures. Topics include political rhetoric, religious discourse, language in the professions (law, medicine).

Lectures, seminar, 3 hours per week.

Restriction: open to COMM majors with approval to year 4 (honours) or permission of the instructor.

COMM 4P53

Interpersonal Dialogue

Theories of dialogue developed for relational communication and their application to relational processes such as listening and conflict.

Seminar, 3 hours per week.

Restriction: open to COMM majors with approval to year 4 (honours) or permission of the instructor.

* COMM 4P55

Advertising, Mass Media and Culture

(also offered as PCUL 4P55)

Historical research into the development of

Canadian advertising practices in an international context. Evaluation of the cultural and economic impact of advertising on the mass media and the role of advertising in the formation of a consumer culture.

Seminar, 3 hours per week.

Restriction: open to COMM and PCUL majors with approval to year 4 (honours) or permission of the instructor.

COMM 4P60

Directed Project in Information Technology
Supervised training in information technology through placement in a public or private sector organization.

Restriction: open to COMM (Digital Culture stream) majors with a minimum of 14.0 credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Note: enrolment limited.

COMM 4P70

Advanced Studies in Popular Music

(also offered as MUSI 4P70 and PCUL 4P70)
Focus on a specific culture, genre, issue or historical era.

Seminar, 3 hours per week.

Restriction: open to COMM, MUSI (single or combined) and PCUL majors with approval to year 4 (honours) or permission of the instructor.

COMM 4V50-4V59

Contemporary Research in Communication Studies

Special topics in contemporary communication research.

Seminar, 3 hours per week.

Restriction: open to COMM majors with approval to year 4 (honours) or permission of the instructor.

COMM 4V60-4V69

Historical Perspectives in Communication Studies

Special topics in communication history.

Seminar, 3 hours per week.

Restriction: open to COMM majors with approval to year 4 (honours) or permission of the instructor.

COMM 4V61

2009-2010: Conventions of Film Realism

(also offered as FILM 4V61 and PCUL 4V61)

How representation and perception of "reality" have evolved with technology and aesthetics,

from the LumiPress to reality television.

Lectures, lab, seminar, 4 hours per week.

Restriction: open to COMM, FILM (single or combined) and PCUL majors with approval to year 4 (honours) or permission of the instructor.

Community Health

This program is offered through the Department of Community Health Sciences

Chair

Anthony F. Bogaert

Undergraduate Program Co-ordinator

Jackie Robb

General Information

Administrative Assistant

Joanne Boucher

905-688-5550, extension 4228

Academic South 329

<http://fahs.brocku.ca/chsc/>

The BA(Pass) in Community Health Sciences focuses on community health and wellness emphasizing health promotion and assessment as well as program development and evaluation. This foundational degree provides a broad overview of societal trends and systems related to health issues and is a stepping stone for careers in health related areas.

Brock/Colleges Articulation Agreements

Co-ordinated between the Department of Community Health Sciences and a related department at another post-secondary institution, articulation agreements offer students an opportunity to combine practical experience with theoretical knowledge, with courses taken at both Brock University and an Ontario college. Upon successful completion of both programs, students receive a BA (Pass) Community Health and a diploma from the corresponding college. Gaining both a degree and diploma would typically involve attending college after earning a university degree, or vice versa, however, the Brock articulation agreements combine practical and theoretical learning in a single integrated package that may be completed in four years.

Dental Hygiene

Students participating in this articulation agreement earn a diploma in Dental Hygiene from Niagara College and a BA (Pass) in Community Health from Brock University.

Students admitted to Community Health at Brock University for first year admission may apply during the first year of study; applications are due to the Department of Community Health Sciences on February 15 during the first year at Brock and can be found with the Undergraduate Program Co-ordinator. Students complete years two and three at Niagara College and return for year four at Brock University.

Studies at both institutions are directed to help learners gain employment not only as a Dental Hygienist, but also in the field of Health Promotion and Education, and to prepare for many possible career choices in the dental and health-related fields.

Pharmacy Technician

The Pharmacy Technician articulation agreement allows student to receive a Bachelor of Arts (Pass) degree in Community Health at Brock University and a Pharmacy Technician diploma at Lambton College. Years one and four are completed at Brock University, with students attending Lambton College for years two and three. Applications are due to the Department of Community Health Sciences on February 15 during the first year of study at Brock and can be found with the Undergraduate Program Co-ordinator.

Studies at both institutions are directed to help learners gain employment not only as a Pharmacy Technician, but also in the field of Health Promotion and Education, and to prepare for many possible career choices in health-related fields.

Program Notes

1. To proceed to year 2, students must achieve a minimum grade of 60 percent in CHSC 1F90 and MATH 1F92 as well as have submitted a declaration to major.

2. To proceed to year 2 in the Dental Hygiene and Pharmacy Technician programs, students must achieve a minimum 65 percent in CHSC 1F90 and MATH 1P98 or 1F92 with a minimum 60 percent overall average; have completed 5.0 overall credits, which includes 1.0 Humanities context credit and 1.0 Sciences context credit as well as have submitted an application to the Undergraduate Program Co-ordinator by February 15th.

3. At least one credit each year must be taken outside the Department of Community Health Sciences.

4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

•Year 1 is now closed.

Year 2

•CHSC 2P07, 2P21, 2P27 and 2P49
•one credit from CHSC 2P15, 2P40, 2P50, 2P60
•one credit from CHSC 2F95, 2P09, 2P15, 2P40, 2P50, 2P51, 2P60, 2P65, 2P91, 2P97
•one elective credit (see program note 3)

Year 3

•CHSC 3F20, 3P07, 3P37 and 3P50
•one credit from CHSC 3P21, 3P26, 3P27, 3P40, 3P59, 3P60, 3P80, 3P94, 3P96
•one and one-half elective credits (see program notes 3 and 4)

Year 4

•CHSC 4P50
•one and one-half credits from CHSC courses numbered 3(alpha)90 or above
•three elective credits (see program notes 3 and 4)

Pass Program

Year 1

- CHSC 1F90
- MATH 1F92
- one Humanities context credit
- one Science context credit (BIOL 1F90 recommended)
- one elective credit (see program note 1)

Year 2

- CHSC 2P07, 2P21, 2P27 and 2P49
- one credit from CHSC 2P15, 2P40, 2P50, 2P60
- one credit from CHSC 2F95, 2P09, 2P15, 2P40, 2P50, 2P51, 2P60, 2P65, 2P91, 2P97
- one elective credit (see program note 3)

Year 3

- CHSC 3F20, 3P07, 3P37 and 3P50
- one credit from CHSC 3P21, 3P26, 3P27, 3P40, 3P59, 3P60, 3P80, 3P94, 3P96
- one and one-half elective credits (see program notes 3 and 4)

Brock/Articulation Agreements

Niagara College Dental Hygiene Program Diploma graduates who have achieved a minimum 70 percent overall average will be granted five credits towards their BA (pass) Community Health degree.

Dental Hygiene - Niagara College**Pass Program (only)***Year 1*

- CHSC 1F90
- MATH 1F92
- BIOL 1F25
- one Humanities context credit
- one elective credit (see program note 2)

Year 2

- taken at Niagara College

Year 3

- taken at Niagara College

Year 4

- CHSC 2P07, 2P21, 2P27, 2P49, 3F20 and 3P50

- one and one-half elective credits (see program notes 3 and 4)

Pharmacy Technician - Lambton College**Pass Program (only)***Year 1*

- CHSC 1F90
- MATH 1F92
- BIOL 1F25
- one Humanities context credit
- one elective credit (see program note 2)

Year 2

- taken at Lambton College

Year 3

- taken at Lambton College

Year 4

- CHSC 2P07, 2P21, 2P27, 2P49, 3F20 and 3P50
- one and one-half elective credits (see program notes 3 and 4)

Description of Courses

See relevant calendar entry for course descriptions.

Community Health Sciences

Chair

Anthony F. Bogaert

Professors

Anthony F. Bogaert, John Hay

Associate Professors

Brent E. Faught, Brian Jaynes, Kelli-an G. Lawrance, Deborah D. O'Leary, Ana L. Sanchez, Martin Tammemagi, Evangelia L. Tsiani, Terrance J. Wade, Hui Di Wang

Assistant Professors

Paul LeBlanc, Jian Liu, Dan Malleck, Miya Narushima

Adjunct Professors

Susan M. Arai, John Cairney, Wendy Ward

Undergraduate Program Co-ordinator

Jackie Robb

General Information

Administrative Assistant

Joanne Boucher

905-688-5550, extension 4228

Academic South 329

<http://fahs.brocku.ca/chsc/>

The Department of Community Health Sciences offers four-year Honours degrees leading to a Bachelor of Arts (BA) in Child Health, a Bachelor of Public Health (BPH), a Bachelor of Science (BSc) in Health Sciences or Biomedical Sciences and a three-year BA (Pass) degree in Community Health. A Dental Hygiene or Pharmacy Technician diploma may be earned with the BA (Pass) Community Health through articulation agreements with other post-secondary institutions.

The BA (Honours) in Child Health is designed for students wishing to pursue careers as an educator or health professional following post graduate study. The program provides students with a biological, psychological and sociological overview of the major determinants of health from birth through adolescence.

The Bachelor of Public Health (Honours) focuses on individual, community and population health and wellness with emphasis on health promotion, health administration, health policy, and health programming and

evaluation. Students are prepared for careers in a broad range of community and public health fields, and postgraduate study in health-related disciplines.

The BSc (Honours) in Health Sciences prepares students for careers in health professions with a bio-science perspective. This pre health professional degree allows students to meet the requirements for post graduate programs in medicine and the allied health professions.

The BSc (Honours) in Biomedical Sciences focuses on the molecular basis of human health. It draws on the expertise of faculty of Community Health Sciences in the medical aspects of human health and of faculty in Biological Sciences in theory, methods, and applications of molecular biology. This program will prepare students for careers in biomedical research, teaching, or professional programs in health sciences.

The BA(Pass) in Community Health focuses on community health and wellness emphasizing health promotion and health assessment as well as program development and evaluation. This foundational degree provides a broad overview of societal trends and systems related to health issues and is a stepping stone for careers in health related areas.

Brock/Colleges Articulation Agreements

Co-ordinated between the Department of Community Health Sciences and a related department at another post-secondary institution, articulation agreements offer students an opportunity to combine practical experience with theoretical knowledge, with courses taken at both Brock University and an Ontario college. Upon successful completion of both programs, students receive a BA (Pass) Community Health and a diploma from the corresponding college. Gaining both a degree and diploma would typically involve attending college after earning a university degree, or vice versa, however, the Brock articulation agreements combine practical and theoretical learning in a single integrated package that may be completed in four years.

Dental Hygiene

Students participating in this articulation agreement earn a diploma in Dental Hygiene from Niagara College and a Bachelor of Arts (Pass) in Community Health from Brock University.

Students admitted to Community Health at Brock University for first year admission may apply during the first year of study; applications are due to the Department of Community Health Sciences on February 15 during the first year at Brock and can be found with the Undergraduate Program Co-ordinator. Students complete years two and three at Niagara College and return for year four at Brock University.

Students completing the Dental Hygiene program at Niagara College, with a minimum 70 percent average, may apply for consideration to Brock University and complete 10.0 prescribed credits (two years) to earn a BA (Pass) Community Health; applications are available in the department and are due by February 15 of the second year at Niagara.

Studies at both institutions are directed to help learners gain employment not only as a Dental Hygienist, but also in the field of Health Promotion and Education, and to prepare for many possible career choices in the dental and health-related fields.

Pharmacy Technician

The Pharmacy Technician articulation agreement allows students to receive a Bachelor of Arts (Pass) degree in Community Health at Brock University and a Pharmacy Technician diploma at Lambton College. Years one and four are completed at Brock University, with students attending Lambton College for years two and three. Applications are due to the Department of Community Health Sciences on February 15 during the first year of study at Brock and can be found with the Undergraduate Program Co-ordinator.

Studies at both institutions are directed to help learners gain employment not only as a Pharmacy Technician, but also in the field of Health Promotion and Education, and to prepare for many possible career choices in health-related fields.

Please consult the relevant entries for a listing of program requirements.

Science Credit Courses

- CHSC 2F95, 2P07, 2P09
- CHSC 3P07, 3P09, 3P19, 3P51, 3P90, 3P97
- CHSC 4P07, 4P19, 4P95, 4P97

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

CHSC 1F90

Introduction to Community Health Sciences
Issues and controversies in the area of health. Aspects of health status, determinants of health and personal health.

Lectures, seminar, 3 hours per week.

Restriction: open to DADC, BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

CHSC 2F95

Human Anatomy

Human anatomy using a systemic approach. Emphasis on the functional aspects of gross and histologic anatomy. Musculoskeletal anatomy using a regional approach.

Lectures, lab, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC, BKin, BSc (Kin) and PHTH majors until date specified in Registration guide.
Prerequisite: BIOL 1F90 or PEKN 1P90.

CHSC 2P07

Biostatistics I

Fundamental statistical principles and techniques for research. Issues concerning the construction, administration and evaluation of data collection as well as the processing and analysis of data.

Lectures, lab, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors.

Prerequisite: MATH 1F92 or 1P98 or permission of the instructor.

CHSC 2P09

Introduction to Human Physiology

Molecular, cellular, tissue and organ physiology. Topics include cell structure and function, cell transport processes, nerve and muscle tissue, endocrine system, metabolism and reproductive

physiology.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC, NUSC and PHTH students until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: BIOL 1F90.

Note: this course provides foundation for students seeking Cardiac Rehabilitation Certification.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 2P09.

CHSC 2P15

Processes of Health and Wellness

Holistic nature of health and wellness; environmental and government roles; management of alternatives to traditional medicine. Concepts and applications of biophysical and psycho-social dimensions of health and wellness over the lifespan. Traditional and alternative medical responses.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors.

Note: CHSC 2P21 is recommended.

CHSC 2P21

The Health of Canadian Society

Health status of Canadians and the history and structure of the health care system.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC, NUSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 1F90.

CHSC 2P27

Research Methods in Health

Introduction to research designs across health disciplines including issues and controversies in conducting research.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, HLSC and PHTH majors.

Prerequisite: MATH 1F92 or 1P98 or permission of the instructor.

CHSC 2P40

Gerontology: Approaches to Well-being

Aspects of aging; issues relating to health, in terms of both lifestyle and health services.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC, PHTH and SPMA majors until date specified in Registration guide.

Prerequisite: CHSC 1F90.

CHSC 2P49

Health and Behaviour

Topics include major theories, current issues and applications surrounding the study of health behaviour.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 1F90.

CHSC 2P50

Introduction to Human Sexuality

Research methodology, theoretical and biological foundations.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC, NUSC and PHTH majors until date specified in Registration guide. After that date open to WISE majors until date specified in Registration guide.

Prerequisite: CHSC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P34.

CHSC 2P51

Advanced Human Sexuality

Topics include sexual attraction and love, sexual orientation, pornography and prostitution, sexual assault, sexual disorders, STIs and sex therapy.

Lectures, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: CHSC 2P50.

* CHSC 2P60

Medical History

(also offered as HIST 2P60)

Rise of the medical professions through history. Development of the role of health care professionals in society and the formation of public policy.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior), HLSC, PHTH majors and HIST minors until date specified in Registration guide.

Prerequisite: CHSC 1F90 or one HIST credit.

CHSC 2P65

Health Economics

(also offered as ECON 2P65)

Topics may include economic factors affecting the delivery of health care; principles of cost-benefit analysis of health-care services; economic analysis of the supply of health care in Canada; government versus private health insurance; public versus private provision of health care; the economics of medical technology; the supply of physician services, pharmaceutical pricing and access.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 4.0 overall credits.

CHSC 2P91

Nutrition

Introduction to nutritional sciences. Uptake and metabolic role of nutrients and their role in health maintenance throughout the lifespan.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC, NUSC and PHTH majors until date specified in Registration guide.

Prerequisite: BIOL 1F25 or 1F90.

Note: students may not concurrently register in PEKN 4P08.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 4P08.

* CHSC 2P97

Global Issues in Infectious Diseases

(also offered as INTC 2P97)

World changes and their influence on emergence and re-emergence of infectious organisms; antimicrobials and drug resistance, immunizations, immuno-compromised host, nosocomial infections, food and water safety, infectious etiology of cancer and other chronic diseases, infection and tourism, bioterrorism.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

Prerequisites: CHSC 1F90 or INTC (INTL)1F90.

Completion of this course will replace previous assigned grade or credit obtained in INTL 2P97.

CHSC 3F20

Program Planning and Evaluation

Theoretical knowledge and practical skills related to planning, implementing and evaluating health education, health behaviour change and health communication programs.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors with a minimum of 9.0 overall credits.

Prerequisite: CHSC 2P07.

CHSC 3F97

International Health Field Course

Theoretical and practical learning opportunity examining international health issues within a developing country, differences in health and disease patterns, health delivery, and access; cultural and environmental determinants of health.

Restriction: permission of the Department.

Prerequisite: CHSC 2P97, 3P97 or permission of the instructor.

Note: students must contact the instructor for an application form. Students must be over 18 years of age and have a valid passport, visa, and immunizations as required. Students are expected to pay their own expenses.

CHSC 3P07

Biostatistics II

Intermediate statistical principles in research from conceptual and practical perspectives.

Lectures, lab, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors.

Prerequisites: CHSC 2P07 or permission of the instructor.

CHSC 3P09

Introduction to Endocrinology

Physiological functions of hormones and mechanisms of hormonal action. Abnormalities of hormonal control leading to disease. Topics include pituitary, thyroid, adrenocortical, pancreatic and gonadal hormones.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors.

Prerequisite: CHSC 2P09.

CHSC 3P19

Introduction to Pharmacology

Drug absorption distribution, biotransformation, clearance and mechanisms of action. Nervous, cardiovascular, endocrine system, renal and respiratory drugs. Drug development and regulations.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC, NUSC and PHTH majors.

Prerequisites: CHSC 2F95 and 2P09 or permission of the instructor.

CHSC 3P21

Issues in Health Policy

Effects of Canadian health law and policy on individuals and society from birth to death. Topics include health care reform, genetics, reproductive technologies, assisted suicide, legal status of the fetus, biotechnology, regulation of health care providers, confidentiality of information and ethics in health research.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors.

Prerequisite: CHSC 2P21.

CHSC 3P26

Medical Sociology

(also offered as SOCI 3P26)

Social factors associated with physical health, illness and impairments; health care delivery systems and the factors which influence their utilization.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC and SOCI (single or combined) majors and SOCI minors until date specified in the Registration guide. Students must have a minimum 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

CHSC 3P27

Psychiatric Sociology

(also offered as SOCI 3P27)

Social factors associated with psychiatric illness; increased utilization of social science theory and research in the field of psychiatry.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC and SOCI (single or combined) majors and SOCI minors until date specified in the Registration guide. Students must have a minimum 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

CHSC 3P30

Directed Readings

Program of study not available among the regular course offerings, designed in consultation with the faculty member directing the course.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with a minimum of 9.0 overall credits, a minimum 75 percent major average and permission of the Department.

Note: topics are to be chosen in consultation with a faculty member willing to supervise. Forms available from the department.

CHSC 3P33

Internship in Community Health

Clinical/field experience within the many areas of Community Health.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with a minimum of 9.0 overall credits, a minimum 75 percent major average and permission of the Department. Note: this is a limited enrolment course. Enrolment is dependent upon availability of faculty advisers. Internship forms can be obtained from the department.

CHSC 3P37

Qualitative Research in Health Sciences

Introduction to qualitative research approaches to exploring health and public health systems. Examination of different traditions of qualitative inquiry and approaches to qualitative research designs; the development of practical skills in data collection (e.g., interviewing, focus groups) and analysis of qualitative data.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC and PHTH majors. Prerequisite: CHSC 2P27 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P18, RECL 3Q17 and SPMA 3P17.

CHSC 3P40

Introduction to Health Issues in the Workplace

Exploration of current research, issues, opportunities and challenges in workplace health.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors until date specified in the Registration guide.

Prerequisite: CHSC 1F90 or LABR 1F90.

CHSC 3P50

Health Promotion

Strategies and approaches to health promotion; the relationship between theory and practice, historical development and future directions.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors with a minimum 9.0 overall credits.

Prerequisite: CHSC 2P07.

CHSC 3P51

Genetics: Transmission, Development, Population

(also offered as BIOL 3P51)

Concepts of classical genetics including genetic mapping, extra-nuclear inheritance, polyploidy, genetics and development, evolutionary genetics.

Lectures, 3 hours per week; lab, 3 hours per week for 6 weeks.

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or permission of the instructor.

CHSC 3P52

Ergonomics

Science and practice to understand the abilities and limitations of humans and how that knowledge can be used to improve our interactions with objects, systems and environments.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in the Registration guide.

Prerequisite: one of CHSC 2F95, 2P94, PEKN 2P04.

CHSC 3P59

Diversity and Health

Current health issues across diverse populations including elderly persons, disenfranchised youth, people from developing countries, economically disadvantaged persons people with disabilities, substance abuse or mental health problems.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified

in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisite: CHSC 1F90.

CHSC 3P60

Public Health and Society

Emergence and growth of public health; expansion of public health bureaucracy; current issues in medicalization, professionalization and bureaucratization of public health industries; current structures of public health services.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 1F90 or permission of the instructor.

* CHSC 3P80

The Health of Children

(also offered as CHYS 3P80)

Biological, psychological and sociological determinants of health during childhood. Emphasizing a wellness perspective.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, CHYS (single or combined) CHYS BA (Honours)/BEEd, CHYS BA (Pass)/BEEd (Primary/Junior), HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 1F90 or CHYS 2F10.

CHSC 3P90

Cardiac Pathophysiology

Introduction to basic cardiac physiology. Topics include heart structure and function, arterial dynamics and blood flow, risk factors associated with and mechanisms of various types of cardiovascular disease.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: CHSC 2F95.

CHSC 3P91

Cardiac Rehabilitation

Introduction to principles of cardiac rehabilitation. Topics include current national guidelines, best practice procedures and benefits of cardiac rehabilitation.

Lectures, lab, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisite: CHSC 3P90.

CHSC 3P92

Electronic Curriculum

Introduction to electronic curriculum and development of health education units in multimedia environments.

Lectures, lab, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisites: CHSC 1F90; APCO 1P01 or MATH 1P98.

Co-requisite: CHSC 3P50.

CHSC 3P93

Advanced Nutrition

Overview of nutrition in a clinical setting, focusing on current literature outlining nutritional practices associated with specific diseases.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisites: one of CHSC 2P09, BIOL 2P97, PEKN 2P09; CHSC 2P91.

CHSC 3P94

Health Administration

Introduction to management principles of planning, organizing, leading and delivering health services in various health care settings.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 2P21.

CHSC 3P95

Cardiac Rehabilitation Practicum

Practical experience in a cardiac rehabilitation setting. Introduction to exercise stress testing, patient intake and assessment, and exercise prescription.

Placement, 50 hours including one introductory training lecture.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisite: CHSC 3P90.

Note: students gain valuable practical experience which may be used towards accreditation as a Cardiac Rehab Specialist. Must have valid CPR certification prior to first day of class. Transportation is a student responsibility.

CHSC 3P96

The Development of Healthy Communities

Social, economic and environmental factors and processes which influence community well-being.

Lectures, seminar, 3 hours per week.

Prerequisite: CHSC 3P50.

CHSC 3P97

Fundamentals of Infectious Diseases

Overview of medical microbiology. Etiology, prevention and control of infectious diseases in humans with emphasis on Canadian health.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC, NUSC and PHTH majors.

Prerequisite: BIOL 1F90.

CHSC 3V50-3V99

Special Topics in Community Health Sciences

Courses in specialized areas within health and wellness.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors with a minimum of 9.0 overall credits.

CHSC 4F90

Thesis

Original research project culminating in a thesis carried out with a faculty adviser. Topics are to be chosen in consultation with faculty willing to supervise.

Lectures, 1 hour per week in alternate weeks.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with a minimum of 13.5 overall credits, a minimum 80 percent major average and permission of the Department.

Note: proposals must be submitted prior to May 30 and approved by a faculty member prior to registration. Forms available from the department.

CHSC 4P07

Secondary Data Analysis

Utilization of large population surveys and census data emphasizing active (experiential) learning.

Lectures, lab, 4 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with approval to year 4 (honours).

Prerequisite: CHSC 3P07 (3Q07) or permission of the instructor.

CHSC 4P19

Integrated Cardiovascular Pharmacology

Pharmacologic basis for therapeutics and management of cardiovascular disease in humans and approaches used to study drugs and drug mechanisms on the cardiovascular system.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC, NUSC and PHTH majors.

Prerequisite: CHSC 3P19 or permission of the instructor.

CHSC 4P26

Sociology of Health

(also offered as SOCI 4P26)

Selected social policy issues in medical sociology, psychiatric sociology or related subdisciplines. Topics may include the politics of individualizing health problems, clinical sociology and related topics.

Lectures, seminar, 3 hours per week.

Restriction: open to CHSC and SOCI majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Note: CHSC 3P26 or 3P27 recommended.

CHSC 4P30

Advanced Directed Readings

Topic of study not available among the regular course offerings, designed in consultation with the faculty member directing the course.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with a minimum of 13.5 overall credits, a minimum 75 percent major average and permission of the Department.

Note: forms available from the department.

CHSC 4P37

Planning and Conducting Health Needs Assessments

Health-related needs of individuals, organizations and communities.

Lectures, 3 hours per week.

Restriction: open to CHSC and PHTH majors with approval to year 4 (honours).

Prerequisite: CHSC 3P37 or permission of the instructor.

Note: students work in small groups planning and conducting a needs assessment in conjunction with a community organization or initiative.

CHSC 4P44

Public Health Practices

Application of theories, models and concepts to emerging public health issues; contemporary role of public health in local and global communities

Lectures, 3 hours per week.

Restriction: open to CHSC and PHTH majors with approval to year 4 (honours).

Prerequisites: CHSC 3P50 and 3P60.

CHSC 4P50

Research Methods in Epidemiology

Epidemiological research methods and identification of risk factors.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with a minimum of 13.5 overall credits.

Prerequisite: CHSC 2P27.

CHSC 4P51

Current Public Health Issues of the HIV/AIDS Pandemic

Multi-factorial causality of HIV/AIDS to increase understanding and awareness of the ongoing pandemic. Topics include the analysis of biological, physiological, environmental and behavioural factors involved in transmission and persistence; epidemiological patterns; individual and societal factors determining occurrence and impact in different populations.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 3P97 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in CHSC 4V51.

* CHSC 4P60

History of Disease in Society

(also offered as HIST 4P60)

Examination of issues around the perception, treatment and social effects of disease in Western society.

Lectures, 3 hours per week.

Prerequisite: CHSC 2P60.

CHSC 4P80

Pediatric Exercise Science

Roles of physical activity and exercise in the diagnosis, treatment and prognosis of children with chronic illness. Major children's diseases will be discussed from a holistic perspective.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits.

Prerequisites: CHSC 2P09 and 3P80.

CHSC 4P92

Interactive Technologies in Health Promotion
Design and development of web-based interactive multimedia approaches to health promotion.

Lectures, 3 hours per week.

Restriction: open to CHSC, CHLH, HLSC and PHTH majors with a minimum 13.5 overall credits and a minimum 75 percent major average.

Prerequisites: CHSC 3F20 and 3P92.

CHSC 4P95

Principles of Pathology

Principles and current knowledge in General Pathology; generic pathogenic mechanisms and commonly occurring examples of disease from selected organ systems.

Lectures, lab, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with approval to year 4 (honours).

Prerequisites: CHSC 2F95 and 2P09.

CHSC 4P97

Tropical Parasites of Humans and Animals

Major tropical parasitic diseases affecting human and animal health emphasizing neglected diseases. Topics include parasite biology, natural history and epidemiology of disease, risk factors, medical and social impact, and current global efforts directed towards their control.

Lectures, lab, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors until date specified in Registration guide.

Prerequisite: CHSC 2P97 and 3P97 or permission of the instructor.

CHSC 4P99

Clinical Epidemiology

Description and principles of clinical epidemiology. Decision-making strategies for implementing and evaluating clinical research.

Lectures, seminar, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors with approval to year 4 (honours).

Prerequisite: CHSC 3P07.

CHSC 4V50-4V99

Advanced Special Topics in Community Health Sciences

Directed study in concentrated areas of health and wellness.

Restriction: open to BMED, CHSC, CHLH, HLSC and PHTH majors.

Computer Science

Chair

David Hughes

Professor Emeritus

Jack M. Miller

Professors

Ivo Düntsch, Brian Ross

Associate Professors

Jerzy Barchanski, Sheridan Houghten, David Hughes, David McCarthy, Beatrice Ombuki-Berman, Ke Qiu, Jonathan Radue, Michael Winter, Vladimir Wojcik

Adjunct Professors

Günther Gediga, Jack Miller

Instructor

David Bockus

Student Support Co-ordinator

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The Department of Computer Science offers three- and four-year programs of study leading to single or combined BSc (honours), single Computer Science Co-op BSc (honours), combined Mathematics/Computer Science Co-op BSc (honours), single BSc with Major in Computer Science, combined BA (honours) and a single BSc (Pass) degree program. Two concentrations are available: software engineering and intelligent systems. An Internship program is also available in the honours program. There are cross-disciplinary programs in Computing and Business, Computing and Solid-State Device Technology, Computing and Network Communications, and Interactive Arts and Sciences as well as a Minor in Applied Computing.

See relevant calendar entries for a listing of program requirements.

Domain Knowledge Requirement for Practicing Computer Science Professionals

It is widely recognized that the professional practice of Computer Science requires Domain Knowledge - specialized knowledge of the area in which computing is being applied. This phenomenon is often described as Computer Science + X. In order to prepare students for professional practice, the BSc (Honours) Co-op and BSc with Major programs require the completion of the domain knowledge requirement. Students following the BSc (Honours) program must either complete the courses for graduate school entry (see below) or complete the Domain Knowledge Requirement.

The domain knowledge requirement can be fulfilled either by completing a minor in a subject other than Applied Computing or by completing a cohesive set of at least 4.0 credits in an area other than Computer Science or Applied Computing approved by the Computer Science Undergraduate Program Adviser.

Graduate School Entry Requirement

Students pursuing the BSc (honours) program must either complete the courses for graduate school entry: one additional COSC credit; one of COSC 4P42, MATH 2P75, 3P12, 3P60, 3P73; and one of MATH 2P12, 2P71, 2P72, 2P81 or the Domain Knowledge Requirement (see above).

Co-op Program

The Computer Science Co-op program combines academic and work terms over a four and one-half year period. Students spend one and one-half years in an academic setting studying the fundamentals of computer programming, algorithms, data structures and object-oriented programming prior to their first work placement. Successful completion of courses in the core areas of Computer Science provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Co-op students are assessed an annual administration fee (see the Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. Students will be required to maintain a minimum 70 percent major average and a minimum 60 percent non-major average in order to continue in the Co-op program. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Computer Science Co-op Admissions Committee.

The Computer Science Co-op program designation will be awarded to those students who have honours standing and have successfully completed a minimum of twelve months Co-op work experience.

Internship Option

The Internship option combines academic and work experience in a five-year program. It is available in Computer Science honours (single or combined), Computing and Business and Computing and Solid-State Device Technology programs. Students complete the normal four-year honours program and an 8-16 month work placement after second or third year. In order to complete the Internship placement, students will be required to submit an acceptable placement report that will be graded by the Department. In addition to the usual fees for courses, a one-time administration fee will be levied during the work term (see the Schedule of Fees).

Students enrolled in the program may apply for admission to the Internship Option during the Fall Term of year 1 or year 2 (depending on whether they plan a work term after year 2 or 3, respectively). As this is a limited enrolment program admission is not guaranteed by attainment of the minimum requirement. Admission will be based on the achievement (as of January of the application year) and maintenance of a minimum 70 percent major average. Prior to the placement, the student must have completed at least 10, but preferably 15 credits, including COSC 1P50, 2P03, 2P32 and one or more of COSC 2P12, 2P13, 2P89, 2P90. The Computer Science Internship Admissions Committee will make admission decisions.

Applied Computing (APCO) Courses

Courses with the APCO designation are intended for non-Computer Science majors who recognize the need for fluency in computing as a part of their undergraduate program. These courses may be taken individually or as part of a minor.

APCO 1P00, 1P01, 1P30, 1P50 and 1P93 may each be taken as a first APCO course. APCO 1P00 is a non-technical introduction to programming and requires no previous experience. APCO 1P01 discusses software tools for word processing, spreadsheets, presentations, databases and searching the internet and anticipates previous exposure to computer use. APCO 1P30 involves programming for interactive media and assumes no prior programming experience but does assume familiarity with computer applications. APCO 1P50 considers effective and ethical use of computers for information acquisition and dissemination. It requires no previous computing skill. APCO 1P93 will

usually serve as a second programming course but can also serve as an introductory programming course for those who need a more technical introduction to programming.

APCO courses do not count as major credit for COSC (single or combined) majors, Computing and Business, Computing and Network Communications and Computing and Solid-State Device Technology students. Students who have done well in APCO 1P00 and are interested in changing their major to COSC should contact the Department Chair and may be permitted to proceed directly to COSC 1P03.

Department Facilities

A campus-wide fibre optic network links all the University's academic computing facilities. The department's computers form an integral part of this resource. Most computers on campus can be accessed from microcomputers in any of the laboratories. In particular, the department maintains an 8 core AMD Opteron server that serves departmental labs. The department has three microcomputer laboratories: D205, J301 and J310 containing Pentium PCs. Students also have access to scanners, digitizers, robot arms, a robot vision system, computer graphics software (Bryce, Poser, SoftImage) and database software (ORACLE, Access).

Wireless Access

In order to accommodate students who own laptops, the Campus has wireless Internet connection available.

Printer Usage Fees

A non-refundable printer usage fee may be charged for all courses which use departmental or User Services laboratories. Printing beyond the initial quota will incur an additional fee.

Major Credits

In calculating the major average for a Computer Science major or co-major, all COSC courses, MATH 1P66, 1P67, 3F65 and 4P61 are included.

Mathematics in Computer Science

Mathematics is fundamental to the study of Computer Science and thus MATH credits are required in each year of the various programs. In order to be more competitive in the workplace and if considering graduate studies, students are strongly encouraged to take as many MATH courses as possible.

Computer Hardware

Students interested in computer hardware are advised to elect PHYS 2P31, 2P32 and 3P92 within their Computer Science program. PHYS 1P21 or 1P91 (recommended) and one of PHYS 1P22, 1P23, 1P92 (recommended),

1P93 are required as a prerequisite for PHYS 2P31. Students may also wish to consider the Computing and Solid-state Device Technology program. (See separate calendar entry.)

Program Notes

1. Prior computer programming experience is not required for entry to the COSC programs. Students with considerable prior programming experience in a high-level language such as Pascal, Java, C++ or Ada may be granted exemption from COSC 1P02 at the discretion of the Chair.

2. In choosing electives, students should consider: MGMT 1P51, 1P52, WRIT 2P14 and, if considering graduate school, additional MATH courses. Students are advised to take special care in selecting elective credits (both COSC and general), especially in year three, to ensure access to subsequent courses required to complete the four-year programs.

3. MATH 1P05 and 1P06 for Chemistry; MATH 1P97 and 1P98 for Earth Sciences.

4. One elective credit if the required course in year 1 in the other discipline is a Social Sciences context credit or Humanities context credit for the combined degree with Social Sciences context credit or Humanities context credit, respectively.

5. Students may take MATH 1P05 and 1P06 in place of MATH 1P97 and 1P98 in year 1. MATH 1P98 would then be taken in year 2 in place of a one-half credit elective.

6. For students with a special interest in geographic information systems, the following courses are strongly recommended as GEOG and COSC elective credits: GEOG 3P04, 3P05, 3P07, COSC 3P98.

7. The Computer Science and Visual Arts program is limited to 5 students.

8. For students admitted into the combined Honours BSc in COSC and VISA, COSC 1P02 and COSC 1P03 will substitute for the Humanities Language requirement. Should students re-declare their major or combined major, within the humanities, the Humanities Language requirement will have to be satisfied.

9. Students planning on attending graduate school must complete one additional COSC credit; one of COSC 4P42, MATH 2P75, 3P12, 3P60, 3P73; and one of MATH 2P12, 2P71, 2P72, 2P81.

10. Students fulfilling the Domain Knowledge Requirement must complete either a minor in a subject other than Applied Computing or a cohesive set of at least 4.0 credits in an area other than Computer Science or Applied Computing approved by the Computer Science Undergraduate Program Adviser.

11. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- COSC 1P02, 1P03 and 1P50 (see program note 1)
- MATH 1P12, 1P66, 1P67 and 1P98
- one Humanities context credit
- one-half elective credit (see program notes 2, 10)

Year 2

- COSC 2P03, 2P12, 2P13 and 2P32
- MATH 1P05 and 1P06
- one Sciences context credit
- one Social Sciences context credit

Year 3

- COSC 2P90, 3F00 and 3P03
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92
- two elective credits (see program notes 2, 9, 10 and 11)

Year 4

- COSC 4P61
- two and one-half COSC credits (see program notes 9 and 11)
- two elective credits (see program notes 2, 9, 10 and 11)

Computer Science Co-op (honours only)

Students admitted to the Computer Science program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office. Failure to adhere to an approved pattern may result in removal from the program.

Year 1

- COSC 1P02, 1P03 and 1P50 (see program

- note 1)
 •MATH 1P66 and 1P67
 •one Humanities context credit
 •one Sciences context credit
 •one-half elective credit (see program notes 2 and 10)

Year 2

Fall Term:

- COSC 2P03 and 2P12
- MATH 1P05 and 1P12
- SCIE 0N90
- one half elective credit (see program notes 2, 10 and 11)

Winter Term:

- COSC 0N01

Spring/Summer Sessions:

- COSC 2P13 and 2P32
- MATH 1P98
- one Social Sciences context credit

Year 3

- COSC 2P90, 3F00 and 3P03
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92
- MATH 1P06
- one and one-half elective credits (see program notes 2, 10 and 11)

Spring/Summer Sessions:

- COSC 0N02

Year 4

Fall Term:

- COSC 0N03

Winter Term:

- One and one-half COSC credits (see program note 11)
- one elective credit (see program notes 2, 10 and 11)

Year 5

Fall Term:

- COSC 4P61
- one COSC credit (see program note 11)
- one elective credit (see program note 2, 10 and 11)

BSc with Major Program

Year 1

- COSC 1P02, 1P03 and 1P50 (see program note 1)
- MATH 1P12, 1P66, 1P67 and 1P98
- one Humanities context credit
- one-half elective credit (see program notes 2

and 10)

Year 2

- COSC 2P03, 2P12, 2P13 and 2P32
- MATH 1P05 and 1P06
- one Sciences context credit
- one Social Sciences context credit

Year 3

- COSC 2P90, 3F00 and 3P03
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92
- two elective credits (see program notes 2, 10 and 11)

Year 4

- COSC 4P61
- two and one-half COSC credits (see program note 11)
- two elective credits (see program notes 2, 10 and 11)

Pass Program

Year 1

- COSC 1P02, 1P03 and 1P50 (see program note 1)
- MATH 1P12, 1P66, 1P67 and 1P98
- one Humanities context credit
- one-half elective credit (see program note 2)

Year 2

- COSC 2P03, 2P12, 2P13 and 2P32
- MATH 1P05 and 1P06
- one Sciences context credit
- one Social Sciences context credit

Year 3

- COSC 2P90 and 3F00
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92
- one-half COSC credit (see program note 11)
- two elective credits (see program notes 2 and 11)

Computer Science as a Second Degree Program

A student holding an honours or Pass degree in another discipline may obtain a BSc (honours) in Computer Science, a BSc with a Major in Computer Science or a BSc Pass degree. Students should refer to the University regulations concerning "Requirements for a

Second or Subsequent Degree" section for further information. Previous or transfer credits may be used to satisfy some of the following requirements.

Applicants must be able to demonstrate an acceptable level of fluency and accuracy in spoken and written English. Prior to admission, an applicant holding a degree from a non-Canadian university will be required to provide evidence of English language proficiency as demonstrated through one of the means outlined in the "Proof of Proficiency in English" section.

The additional courses taken for a second degree in Computer Science must include a minimum of five (for a subsequent 20 credit degree) or four (for a second Pass degree) Brock COSC credits. All elective credits should be numbered 2(*alpha*)00 or above.

A second-degree program is often taken as part-time study since the normal prerequisite structure requires a minimum of four (for 20 credit) or three (for Pass) years of study. A student wishing to pursue full-time study can usually complete the program in three (for 20 credit) or two (for Pass) years by following the pattern of study below.

Honours

Year 1

- COSC 1P02, 1P03 and 1P50
- MATH 1P12, 1P66, 1P67 and 1P98

Spring/Summer Sessions:

- COSC 2P03

Year 2

- COSC 2P12, 2P13, 2P32 and 2P90
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92
- MATH 1P05 and 1P06

Year 3

- COSC 3F00, 3P03 and 4P61
- two COSC credits numbered 3(*alpha*)90 or above

BSc with Major

Year 1

- COSC 1P02, 1P03 and 1P50
- MATH 1P12, 1P66, 1P67 and 1P98

Spring Term:

- COSC 2P03

Year 2

- COSC 2P12, 2P13, 2P32 and 2P90
- one-half COSC credit
- one-half COSC credit numbered 2(*alpha*)90

or above

- MATH 1P05 and 1P06

Year 3

- COSC 3F00
- one-half COSC credit numbered 2(alpha)90 or above
- two and one-half COSC credits numbered 3(alpha)90 or above

Pass

Year 1

- COSC 1P02, 1P03 and 1P50
- MATH 1P12, 1P66, 1P67 and 1P98

Spring/Summer Sessions:

- COSC 2P03

Year 2

- COSC 2P12, 2P13, 2P32, 2P90 and 3F00
- one-half COSC credit
- one COSC credit numbered 2(alpha)90 or above

Combined Major Program

Students may take a combined major in Computer Science and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

BSc (honours) Computer Science and another Science

Year 1

- COSC 1P02 and 1P03 (see program note 1)
- MATH 1P66 and 1P67
- one MATH credit (see program note 3)
- one credit in the co-major discipline
- one Social Sciences context credit

Year 2

- COSC 1P50 and 2P03
- one Science credit
- two credits in the co-major discipline
- one Humanities context credit

Year 3

- COSC 2P12, 2P13, 2P32 and 2P90
- MATH 1P12 and 1P98
- two credits in co-major discipline

Year 4

- COSC 3F00
- two COSC credits numbered 3(alpha)90 or above
- two credits in the co-major discipline numbered 3(alpha)90 or above

BSc (honours) Computer Science and Mathematics

Year 1

- COSC 1P02 and 1P03 (see program note 1)
- MATH 1P01, 1P02, 1P66 and 1P67
- one Sciences context credit
- one Social Sciences context credit

Year 2

- COSC 1P50, 2P03, 2P32 and 2P90
- MATH 1P12, 1P40, 2P03 and 2P81
- one Humanities context credit

Year 3

- COSC 2P12, 2P13 and 3F00
- MATH 2F40, 2P82 and 3F65
- one-half elective credit

Year 4

- Two COSC credits numbered 3(alpha)90 or above
- MATH 3P60, 4P61
- one MATH credit (see program note 9)
- one elective credit

BSc Computer Science and Mathematics Co-op (honours only)

Consult the Mathematics entry for a listing of program requirements.

BSc (honours) Computer Science and Physics

Consult the Physics entry for a listing of program requirements.

BA (honours) or BSc (honours) Computer Science and a Humanities or a Social Science

Year 1

- COSC 1P02 and 1P03 (see program note 1)
- MATH 1P66 and 1P67
- one credit in the co-major discipline
- one Sciences context credit
- one Social Sciences context credit (see program note 4)

Year 2

- COSC 1P50, 2P03, 2P32 and 2P90
- two credits in the co-major discipline
- one Humanities context credit (see program note 4)

Year 3

- COSC 2P12, 2P13 and 3F00
- MATH 1P97 and 1P98
- two credits in the co-major discipline

Year 4

- Two COSC credits numbered 3(alpha)90 or above
- two credits in the co-major discipline numbered 3(alpha)90 or above
- one elective credit

BSc (Honours) Computer Science and Visual Arts

Year 1

- COSC 1P02 and 1P03 (see program notes 1 and 8)
- VISA 1P96, 1P97, 1Q98 and 1Q99
- MATH 1P66 and 1P67
- one Sciences context credit

Year 2

- COSC 1P50, 2P03, 2P32 and 2P90
- VISA 2P95 and 2P96
- one VISA credit numbered 2(alpha)00 or above (VISA 2P97 and 2P98 recommended)
- one Social Sciences context credit

Year 3

- COSC 2P12, 2P13 and 3F00
- one-half COSC credit numbered 2(alpha)00 or above
- one VISA credit numbered 3(alpha)00 or above (VISA 3F96 recommended)
- MATH 1P12 and 1P97
- one-half elective credit numbered 2(alpha)00 or above

Year 4

- COSC 2P89 and 3P98
- one and one-half COSC credits numbered 3(alpha)90 or above
- one VISA credit numbered 2(alpha)00 or above
- one VISA credit numbered 3(alpha)90 or above
- MATH 1P98

BA (honours) or BSc (honours) Computer Science and Economics

Year 1

- COSC 1P02 and 1P03 (see program note 1)
- ECON 1P91 and 1P92
- MATH 1P66, 1P67, 1P97 and 1P98 (see program note 5)
- one Sciences context credit

Year 2

- COSC 1P50, 2P03, 2P32 and 2P90
- ECON 2P21, 2P22 and 2P30
- one-half ECON credit
- one Humanities context credit

Year 3

- COSC 2P12, 2P13 and 3F00
- ECON 2P90, 3P21, 3P22 and 3Q91
- one elective credit

Year 4

- Two COSC credits numbered 3(alpha)90 or above
- ECON 3P90, 4P13 and 4P14
- one-half ECON credit numbered 2(alpha)90 or above
- one elective credit

BA (honours) Computer Science and Geography

Year 1

- COSC 1P02 and 1P03 (see program note 1)
- GEOG 1F90
- MATH 1P66 and 1P67
- one Humanities context credit
- one Sciences context credit

Year 2

- COSC 1P50, 2P03, 2P32 and 2P90
- GEOG 2P07 and 2P10
- one credit from GEOG 2P02, 2P03, 2P06
- MATH 1P97 and 1P98

Year 3

- COSC 2P12, 2P13 and 3F00
- GEOG 3P57
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group A or C (see Geography department; see program note 6)
- one elective credit

Year 4

- Two COSC credits numbered 3(alpha)90 or above (see program note 6)
- two GEOG credits numbered 3(alpha)90 or above from group A or C (see Geography department)
- one elective credit

BSc (honours) Computer Science and Geography

Year 1

- COSC 1P02 and 1P03 (see program note 1)
- GEOG 1F91
- MATH 1P66 and 1P67
- one Humanities context credit
- one Social Sciences context credit

Year 2

- COSC 1P50, 2P03, 2P32 and 2P90
- GEOG 2P07 and 2P11
- one credit from GEOG 2P04, 2P05, 2P09
- MATH 1P97 and 1P98

Year 3

- COSC 2P12, 2P13 and 3F00
- GEOG 3P56
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group B or C (see Geography department; see program note

- 6)
- one elective credit

Year 4

- Two COSC credits numbered 3(alpha)90 or above (see program note 6)
- two GEOG credits numbered 3(alpha)90 or above from group B or C (see Geography department)
- one elective credit

Concentration Program

Concentration in Software Engineering

This concentration does not lead to a professional engineering degree.

Students can earn a Concentration in Software Engineering by successfully completing the courses listed below as part of their academic work leading to an Honours BSc in Computer Science degree:

- COSC 2P03, 2P13, 2P90, 2P91, 3F00, 3P01, 3P03, 4P42 and 4P61
- one credit from COSC 3P92, 3P94, 4F90, 4P03, 4P13, 4P14, 4P75

Concentration in Intelligent Systems

Students can earn a Concentration in Intelligent Systems by successfully completing the courses listed below as part of their academic work leading to an Honours BSc in Computer Science degree:

- COSC 2P03, 2P32, 2P90, 2P93, 3F00, 3P03, 3P71 and 4P61
- one and one-half credits from COSC 4F90, 4P76, 4P78, 4P79, 4P80, 4P87

Minor in Applied Computing

Computer Science (single or combined), Computing and Business, Computing and Network Communications and Computing and Solid-State Device Technology majors may not obtain a minor in Applied Computing.

Students in other disciplines may obtain a minor in Applied Computing within their degree program by completing the following courses with a minimum 60 percent average:

- Three APCO credits
- one APCO or COSC credit

Brock/Universities Articulation Agreement

Brock-Qingdao University

Under this agreement students study a prescribed program at Qingdao Technical University for two years and then may be admitted to Brock University to complete the final two years of a BSc (Honours) Computer Science or BSc with Major Computer Science program. Students pursuing study at Brock under this agreement must have achieved a B average in their first two years of study at Qingdao, a grade of at least B in all transferred courses and have obtained the requisite level on the English proficiency test. Students meeting these requirements will be awarded ten transfer credits towards their Brock degree. The schedule of transferable courses is available from the Admissions Office.

Brock-San Jiang University

Under this agreement students study a prescribed program at San Jiang University for two years and then may be admitted to Brock University to complete the final two years of a BSc (Honours) Computer Science or BSc with Major Computer Science program. Students pursuing study at Brock under this agreement must have achieved a B average in their first two years of study at San Jiang, a grade of at least B in all transferred courses and have obtained the requisite level on the English proficiency test. Students meeting these requirements will be awarded ten transfer credits towards their Brock degree. The schedule of transferable courses is available from the Admissions Office.

Brock/Colleges Articulation Agreement

Brock-Mohawk College

This agreement allows Brock to admit students from the Mohawk College Computer Systems Technology - Software Engineering Diploma Program who have a minimum GPA of 3.5 (80 percent) to the BSc (Honours) Computer Science, BSc with Major Computer Science or BSc (Pass) Computer Science program. Students who have a grade of B in all transferred courses will be granted up to seven and one-half credits towards any of these three degree programs and can complete the requirements for the BSc Honours and with Major degrees within three years and the Pass degree within two years. The schedule of transferable courses is available from the Admissions Office.

Brock-Niagara College

This agreement allows Brock to admit students from the Niagara College Programmer/Analyst Diploma Program who have a minimum GPA of 3.5 to the BSc (Honours) Computer Science, BSc with Major Computer Science or BSc (Pass) Computer Science programs. Students who have a grade of B in all transferred courses will be awarded seven credits towards any of these three degrees and can complete the requirements for the BSc (Honours) and with Major degrees within three years and the Pass degree within two years. The schedule of transferable courses is available from the Admissions Office.

Brock-Sheridan College

This agreement allows Brock to admit students from the Sheridan College Computer Science Technology Diploma Program who have a minimum GPA of 3.5 to the BSc (Honours) Computer Science, BSc with Major Computer Science or BSc (Pass) Computer Science program. Students who have a grade of B in all transferred courses will be awarded ten credits towards any of these three degrees and can complete the requirements for the BSc (Honours) and with Major degrees within two years and the Pass degree within one year. The schedule of transferable courses is available from the Admissions Office.

Master of Science (MSc) Program

Candidates with either an Honours or a Pass BSc degree in Computer Science, or equivalent, may apply to the Director of the Graduate Studies Office for entry into this program. Candidates holding a Pass degree will be required to take a qualifying year, similar to year 4 of the Honours program, before formally enrolling for the MSc degree. Candidates may be required to write Graduate Record Aptitude Examinations.

Candidates with an Honours degree, or who have completed a qualifying year, require a minimum of one year of full-time study. The department offers a wide range of courses and research opportunities.

For further information about the MSc program see the Graduate Calendar and the department's Graduate Studies brochure.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

APPLIED COMPUTING

* APCO 1P00

Introduction to Media Computation
(also offered as IASC 1P00)

Programming by example; encoding and manipulating pictures (such as grayscale and colour replacement); pixel manipulation (such as red eye and mirroring); designing and debugging; text manipulation with HTML; file processing; automatic generation and manipulation of web pages; sound processing (such as MP3, encoding, volume and splicing); objects and graphical user interfaces.

Lectures, 3 hours per week; lab, 2 hours per week; tutorial, 1 hour per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors.

Note: prior computer experience is not required. Students may not concurrently register in COSC 1P02.

* APCO 1P01

Fluency With Technology
(also offered as IASC 1P01)

Skills, concepts and capabilities of computers, networks and the Internet. Topics include representation of information, current hardware, software and network technologies, modelling with Excel, presentations with PowerPoint, Internet searching and basic web page development with HTML.

Lectures, 3 hours per week, lab, 2 hours per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors.

Note: some prior computer experience is preferred but not required.

APCO 1P30

Programming for Interactive Media
(also offered as IASC 1P30)

Introduction to ActionScript and object-oriented programming syntax and uses for classes, functions, properties and events in interactive Flash applications for the web.

Lab, 4 hours per week.

Restriction: open to IASC (single or combined) majors until date specified in the Registration guide.

Note: enrolment limited to 24 students. Materials fee required. Students must supply any additional materials and equipment.

APCO 1P50

Integrity and Literacy in the Information Age
(also offered as COSC 1P50 and IASC 1P50)
Professional issues in computing including historic and social perspectives, legal issues, licensing and copyright, social and ethical issues, professional conduct and information literacy.

Lectures, 3 hours per week; seminar, 2 hours per week.

Note: this course involves seminars and considerable written work. A good command of written and spoken English is required.

* APCO 1P93

Applied Programming
(also offered as IASC 1P93)

Modern software techniques including problem solving and design of effective algorithms, structured program design methodology, subprogram library usage, documentation, correctness, floating-point arithmetic and error analysis.

Lectures, 3 hours per week, lab, 2 hours per week; tutorial, 1 hour per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors.

Prerequisite: APCO 1P00 or 4U MATH credit.

APCO 2P01

Personal Computers and Networks

Inner workings of modern computers from a user's point of view. Understanding the hardware, network and system software. Topics include CPUs, memory, video, input/output, networks, security, installation of operating systems and hands-on trouble shooting.

Lectures, 2 hours per week, lab, 3 hours per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors.

Prerequisite: APCO 1P01 (minimum 60 percent) or permission of the instructor.

APCO 2P32

File and Database Systems
(also offered as COSC 2P32)

File organizations and access methods, fundamental data base concepts: specification

and design of databases and applications; various database models including the relational model; processing with SQL; database administration; security. Practical database experience (normally ORACLE).

Lectures, 3 hours per week; lab, 2 hours per week.
Prerequisite: COSC 2P03 (minimum 60 percent).

Note: students minoring in Applied Computing requesting permission to register should have completed APCO 1P00 and 1P93 with a minimum 60 percent. Contact the Department.

APCO 2P60

Web 2.0 Content, Construction, Collaboration

(also offered as IASC 2P60)

Context and topics in web-based interactive environments, communities and social networks designed for sharing content, user interaction and collective intelligence. Blogs, videoblogs and vodcasts; peer 2 peer and consumer 2 consumer; RSS, agents and recommender systems; social networks; online communities and virtual environments; tagging and bookmarking; wikis; mashups; collaborative and open source software and working environments.

Lectures, seminar 3 hours per week.

APCO 2P89

Internet Technologies

(also offered as COSC 2P89 and IASC 2P89)
Concepts and techniques for building and maintaining advanced interactive Web sites. Topics include XML and SGML, database connectivity and forms handling, basic animation, graphics optimization for the Web, scripting, advanced searching and Web design for accessibility.

Lectures, 3 hours per week, lab/seminar, 2 hours per week.

Prerequisite: APCO 1P00 (minimum 60 percent) and 1P01 (minimum 60 percent) or COSC 1P03 (minimum 60 percent).

APCO 2P95

Introduction to Web-based Interactive Media

(also offered as COMM 2P95, IASC 2P95 and VISA 2P95)
Basic technical and design foundations of web-based media production, including image processing, interactive web design and multimedia production. Locates digital practices within the broader history of cultural production, tracing developments in technology and media arts.

Lectures, lab, 5 hours per week.

Restriction: open to COMM, VISA (single or combined) and VISA (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of APCO 2P89, COMM 1F90, IASC 1F00, VISA 1P97.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials and equipment, which they must supply.

APCO 2P99

Project in Applied Computing

Development project in computing, Internet programming or directed reading essay under the supervision of a faculty member.

Prerequisites: two APCO credits (minimum 60 percent).

Note: students may propose their own projects for departmental approval or may apply for a project proposed by a faculty member. Further information (including project guidelines and project list) is available on the department Web pages.

APCO 3P94

Introduction to Human Computer Interaction

(also offered as COSC 3P94 and IASC 3P94)
Human factors in the design and support of computing systems. Design methodologies such as GOMS, TAGs and Task Analysis. Design principles relating to various interaction paradigms.

Lectures, 3 hours per week; lab/seminar, 2 hours per week.

Prerequisite: two credits from APCO (minimum 60 percent), COSC (minimum 60 percent), IASC (minimum 60 percent) or permission of the instructor.

COMPUTER SCIENCE

COSC 1P02

Introduction to Computer Science

Computers and computer programming in a high-level language (normally Java). Topics include computer fundamentals, problem solving and software development, programming language syntax and semantics, methods, input/output, control structures and data types.

Lectures, 2 hours per week; lab, 2 hours per week; tutorial, 1 hour per week.

Note: students with considerable prior programming experience in a high-level language such as Pascal, Java, C++ or Ada may be granted exemption from this course at the discretion of the Chair.

COSC 1P03

Data Structures and Abstraction

Programming and problem solving in a high-level programming language (normally Java). Data structures including arrays, strings and linked-lists. Modularity, abstraction and abstract data types including stacks, queues and lists. Introduction to searching and sorting, algorithm analysis and object-orientation.

Lectures, 3 hours per week; lab, 2 hours per week;

tutorial, 1 hour per week.

Prerequisite: COSC 1P02 (minimum 60 percent) or permission of the Chair.

Note: Students with a minimum 80 percent in APCO 1P00 and changing their major to COSC may be permitted to enter directly into COSC 1P03. Consult the Chair.

* COSC 1P50

Integrity and Literacy in the Information Age (also offered as APCO 1P50 and IASC 1P50)
Professional issues in computing including historic and social perspectives, legal issues, licensing and copyright, social and ethical issues, professional conduct and information literacy.

Lectures, 3 hours per week; seminar, 2 hours per week.

Note: This course involves seminars and considerable written work. A good command of written and spoken English is required.

COSC 2P03

Advanced Data Structures

Implementation and usage of data structures. Topics include trees, graphs, advanced list structures, sorting and searching, analysis of algorithms, program proofs.

Lectures, 3 hours per week, lab, 2 hours per week, tutorial, 1 hour per week.

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors.

Prerequisites: COSC 1P03 (minimum 60 percent); MATH 1P66 and 1P67.

COSC 2P12

Computer Organization and Assembly Language

Basic computer organization including functional units, instruction cycle, control, buses and memory. Assembly-level programming including machine representation, instruction sets and addressing modes. Role of assemblers, linkers and loaders.

Lectures, 3 hours per week, lab, 2 hours per week.
Prerequisite: COSC 1P03 (minimum 60 percent).

COSC 2P13

Introduction to Operating Systems

Operating systems from a user's viewpoint. Emphasis on the functionality of operating systems rather than their implementation. Topics include file, processor, I/O and memory management; concurrent processes; mainframe and microcomputer operating systems; UNIX.

Lectures, 3 hours per week.

Prerequisite: COSC 2P12 (minimum 60 percent).

* COSC 2P32

File and Database Systems

(also offered as APCO 2P32)

File organizations and access methods, fundamental data base concepts: specification

and design of databases and applications; various database models including the relational model; processing with SQL; database administration; security. Practical database experience (normally ORACLE).

Lectures, 3 hours per week, lab, 2 hours per week.
Prerequisite: COSC 2P03 (minimum 60 percent).

Note: students minoring in Applied Computing requesting permission to register should have completed APCO 1P00 and 1P93 with a minimum 60 percent. Contact the Department.

* COSC 2P89

Internet Technologies

(also offered as APCO 2P89 and IASC 2P89) Concepts and techniques required for building and maintaining advanced interactive Web sites. Topics include XML and SGML, database connectivity and forms handling, basic animation, graphics optimization for the Web, scripting, advanced searching, Web design for accessibility.

Lectures, 3 hours per week, lab/seminar, 2 hours per week.

Prerequisite: COSC 1P03 (minimum 60 percent) or APCO 1P00 (minimum 60 percent) and 1P01 (minimum 60 percent).

COSC 2P90

Programming Languages and Object-Orientation

Fundamental concepts of programming languages including syntax, semantics, control, data types and abstraction. Programming paradigms including imperative, applicative, logic and object-oriented. Object-orientation including inheritance and polymorphism. Introduction to object modelling.

Lectures, 3 hours per week, lab, 2 hours per week.
Prerequisite: COSC 1P03 (minimum 60 percent).

COSC 2P91

Procedural Programming

Programming in procedural languages including procedures and functions, data representation, control structures and program organization. Procedural languages such as Ada, C and COBOL.

Lectures, 3 hours per week, lab, 2 hours per week.
Prerequisite: COSC 1P03 (minimum 60 percent).

COSC 2P93

Logic Programming

Predicate logic, symbolic and declarative programming, resolution theorem proving, applications. Introduction to logic languages such as Prolog.

Lectures, 3 hours per week.

Prerequisites: COSC 2P03 (minimum 60

percent).

* COSC 2P96

Introduction to 3D Modelling and Animation

(also offered as IASC 2P96 and VISA 2P96) Concepts and skills of 3D modelling and rendering. Approaches to building models, using texturizing, lighting, cameras and rendering as well basic animation techniques. Relevant historic and theoretical perspectives on 3D and virtuality situating 3D within creative process and broader critical practices in cultural production.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of, 4.0 COSC credits, IASC 1F00, VISA 1P97.

Note: enrolment limited to 24 students. Materials fee required. Students must supply any additional materials and equipment.

COSC 3F00

Software Engineering

Scientific principles and managerial skills required for the construction of reliable software. Attributes of large complex software systems and software process models for managing the phases of software development; software requirements: analysis, tools and document preparation; software specification methods, software design concepts and alternate methodologies such as prototyping and object-oriented paradigms; several software testing, verification and validation methods.

Lectures, 3 hours per week, lab, 2 hours per week.

Prerequisites: COSC 2P03 (minimum 60 percent) and one and one-half COSC credits or permission of the instructor.

Note: this course requires considerable written work and presentations. A good command of written and spoken English is required. Completion of COSC 1P50 and concurrent registration in COSC 2P91 is recommended for this course. Major group project is required.

COSC 3P01

Introduction to Computer Networking

Overview of computer network services and principles of operation using the Internet as an example. Topics include layering of services and protocols; functionality of application layer services: world wide web, file transfer and electronic mail; addressing and naming in wide and local area networks; principles of operation of communication-oriented layers: transport, network and data link layers; physical media of interconnection.

Lectures, 3 hours per week.

Prerequisites: COSC 2P13 (minimum 60 percent), 2P03 (minimum 60 percent), MATH

1P05 and 1P67 or permission of the instructor.

COSC 3P03

Algorithms

Design and analysis of computer algorithms. Topics include asymptotic notations, solving recurrences, order statistics, general algorithm design techniques such as divide-and-conquer, greedy algorithms, dynamic programming, backtracking and branch-and-bound. Graph and string algorithms, and introduction to NP-Completeness and complexity theory.

Lectures, 3 hours per week.

Prerequisites: COSC 2P03 (minimum 60 percent) or permission of the instructor.

COSC 3P40

Advanced Object-Oriented Programming

Topics may include graphical user interfaces, animation, sound, music, networking, parallelism, client-server and XML using game design as an example. Object-oriented program design including UML and design patterns. Introduction to advanced Java APIs such as awt, swing, io, nio, sound, net and xml.

Lectures, 3 hours per week, lab, 2 hours per week.

Prerequisites: two COSC credits or permission of the instructor.

COSC 3P71

Artificial Intelligence

Topics include heuristic programming, analysis of solution space, searching, pattern recognition, machine learning, game playing, genetic algorithms and problem solving.

Lectures, 3 hours per week.

Prerequisite: COSC 2P03 (minimum 60 percent) or permission of the instructor.

Note: completion of COSC 2P93 is recommended before taking this course.

COSC 3P92

Computer Architecture

Topics include buses, internal and external memory, I/O and interfacing, computer arithmetic, instruction sets, RISCs, microprogrammed control, parallel organization.

Lectures, 3 hours per week.

Prerequisites: COSC 2P13 (minimum 60 percent) or permission of the instructor.

COSC 3P93

Parallel Computing

Origins of parallelism, classification of designs, characterization of performance. Pipelined computers: selection and comparison, case studies. Processor arrays: switching networks, case studies. Parallel languages: general principles, parallel constructs, vectorizing compilers, issues of portability. Practical exposure to a parallel programming language and parallel computing hardware. Parallel algorithms: general principles, recurrences,

parallel approach to data structures and computational structures. Future trends: technology, design limitations, future supercomputers.

Lectures, 3 hours per week.

Prerequisite: COSC 2P13 (minimum 60 percent) or permission of the instructor.

* COSC 3P94

Introduction to Human Computer Interaction

(also offered as APCO 3P94 and IASC 3P94) Human factors in the design and support of computing systems. Design methodologies such as GOMS, TAGs and Task Analysis. Design principles relating to various interaction paradigms.

Lectures, 3 hours per week, lab/seminar, 2 hours per week.

Prerequisite: two credits from APCO (minimum 60 percent), COSC (minimum 60 percent), IASC (minimum 60 percent) or permission of the instructor.

COSC 3P95

Embedded Software

Real-time execution, concurrency, network and device control. Topics include requirements posed by embedded software; real-time programming languages and operating systems; development of embedded applications. (knowledge of C assumed).

Lectures, 3 hours per week; lab, 2 hours per week.

Prerequisites: COSC 2P13 (minimum 60 percent) or permission of the instructor.

Note: completion of PHYS 1P91, 1P92 (1F90) and COSC 2P91 is recommended before taking this course.

COSC 3P96

Discrete Event Simulation

Classification of modelling and simulation problems: discrete, continuous and Monte Carlo. Concepts of causality, understanding and modelling. Issues of model credibility, validation, verification, tractability, uncertainty and system state. Basic discrete-event simulation methodology. Elements of probability in model building. Random number generation. Statistical analysis of simulated data and design of simulation experiments.

Lectures, 3 hours per week.

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors. Prerequisite: MATH 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in COSC 4P94 and 4V94.

COSC 3P98

Computer Graphics

Topics include 2-D and 3-D graphics, curve and surface fitting, light and colour models, real time interfaces, animation and hardware issues (knowledge of C assumed).

Lectures, 3 hours per week.

Prerequisites: COSC 2P03 (minimum 60 percent), three COSC credits and MATH 1P12 or permission of the instructor.

Note: completion of COSC 2P91 is recommended before taking this course.

COSC 3P99

Computing Project

Half-year development project or directed reading essay under faculty supervision.

Seminar, 2 hours per week.

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors and permission of project co-ordinator.

Prerequisite: COSC 2P03 (minimum 60 percent).

Note: students may propose their own projects for departmental approval or may apply for a project proposed by a faculty member. Further information (including project guidelines and project list) is available on the department Web pages.

COSC 3V90-3V99

Computing Topics I

Selected topics in computer science.

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors.

COSC 4F90

Computing Project

Full-year project under the supervision of a faculty member.

Seminar, 2 hours per week.

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors with a minimum 75 percent major average and permission of project co-ordinator.

Prerequisite: COSC 3F00 (minimum 60 percent).

Note: students may propose their own projects for departmental approval or may apply for a project proposed by a faculty member. This course is strongly recommended for students considering graduate school. Students must consult with faculty at the end of year 3 regarding supervision of projects. Further information (including project guidelines and project list) is available on the department Web pages.

COSC 4P03

Advanced Algorithms

Classical and evolving problems and algorithms in Computer Science. Topics include classical design and analysis techniques, cryptography, combinatorics.

Lectures, seminar, 3 hours per week.

Prerequisite: COSC 3P03 (minimum 60 percent) or permission of the instructor.

COSC 4P13

Operating Systems: Design and Implementation

Design and implementation of UNIX and other operating systems. Topics include process and thread management, interprocess communication, synchronization and scheduling, multiprocessing, device drivers, kernel memory management, distributed and advanced file systems and STREAMS (knowledge of C assumed).

Lectures, 3 hours per week.

Prerequisites: COSC 2P13 (minimum 60 percent) and 2P91 (minimum 60 percent) or permission of the instructor.

COSC 4P14

Computer Networks

Advanced topics in computer networking, including computer network security, wireless and high-speed networking, computer network management and performance evaluation.

Lectures, 3 hours per week.

Prerequisites: COSC 3P01 (minimum 60 percent) or permission of the instructor.

COSC 4P41

Functional Programming

Introduction to functional programming using the languages Haskell and SML. Topics include all data types, type inference, pattern-matching, recursion, polymorphism, higher-order functions, lazy vs eager evaluation, modules and monads.

Lectures, 3 hours per week.

Prerequisite: three and one-half COSC credits or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in COSC 4V81.

COSC 4P42

Formal Methods in Software Engineering

Specification and correctness of software. Topics include algebraic specifications, semantics of programming languages, Hoare/dynamic logic, specification languages, program transformation.

Lectures/lab/tutorial, 4 hours per week.

Prerequisites: three and one-half COSC credits and MATH 1P67 or permission of the instructor.

COSC 4P61

Theory of Computation

(also offered as MATH 4P61)

Regular languages and finite state machines; deterministic and non-deterministic machines; Kleene's theorem, the pumping lemma, Myhill-

Nerode Theorem and decidable questions. Context-free languages: generation by context-free grammars and acceptance by pushdown automata, pumping lemma, closure properties, decidability. Turing machines: recursively enumerable languages, universal Turing machines, halting problem and other undecidable questions.

Lectures, 3 hours per week.

Restriction: open to COSC (single or combined) majors.

Prerequisite: MATH 1P67.

Note: MATH students may take this course with permission of Department.

COSC 4P75

Compiler Construction

Topics include lexical, syntactic and semantic analysis of high-level languages; symbol table organization; code generation and optimization.

Lectures, 3 hours per week.

Prerequisites: COSC 2P12 (minimum 60 percent), 2P03 (minimum 60 percent) and 2P90 (minimum 60 percent) or permission of the instructor.

COSC 4P76

Machine Learning

Fundamental machine learning techniques with emphasis on using these techniques to design and implement small practical learning systems. Topics include learning as a search, inductive bias, concept learning, computational learning, explanation-based learning and reinforcement learning.

Lectures, seminar, 3 hours per week.

Prerequisite: COSC 3P71 (minimum 60 percent) or permission of the instructor.

COSC 4P78

Robotics

Computer control aspects of robots focusing on behaviour-based robot control architectures. Topics include robot components and subsystems, sensors and perception, object location and manipulation, mobile robot navigation, task planning, control architectures, adaptive and social behaviour.

Lectures, 3 hours per week, lab, 1 hour per week.

Prerequisites: COSC 3P71 (minimum 60 percent) or permission of the instructor.

Note: completion of PHYS 1P91 and 1P92 is recommended before taking this course.

COSC 4P79

Expert Systems

Development of expert systems. Topics include recognition of problems solvable by an expert system; knowledge engineering; languages for expert systems development. Students will experiment with expert system development using an expert system shell and expert system

building tool.

Lectures, 3 hours per week.

Prerequisites: COSC 2P93 (minimum 60 percent) and 3P71 (minimum 60 percent) or permission of the instructor.

COSC 4P80

Artificial Neural Networks

Practical problem solving using artificial neural networks. Supervised learning, single- and multilayer feed-forward networks and backpropagation and refinements; recurrent neural networks; Hopfield networks and Boltzmann machines. Unsupervised learning, competitive learning, Kohonen map and self-organizing feature maps.

Lectures, seminar, 3 hours per week.

Prerequisite: COSC 3P71 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in COSC 4V80.

COSC 4P87

Foundations of Reasoning under Uncertainty

Uncertain reasoning is based on both deductive and inductive methods. Exploration of formal foundations of both streams. Formal systems such as propositional modal logics and grammars, models of probability, Bayesian reasoning, fuzzy sets, rough sets, concept lattices and knowledge structures.

Lectures, 3 hours per week.

Prerequisites: COSC 3P71 (minimum 60 percent) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in COSC 4V97.

COSC 4P98

Topics in Computer Graphics and Digital Audio

Contemporary topics in computer graphics and audio, including ray tracing, fractals, spline and curve fitting, digital audio fundamentals, MIDI, computer composition, music and sound processing. Programming assignments use C, OpenGL and Csound.

Lectures, 3 hours per week.

Prerequisite: COSC 3P98 (minimum 60 percent).

COSC 4V80-4V99

Computing Topics II

Selected topics in computer science.

Lectures, seminar, 3 hours per week.

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors.

CO-OP COURSES

COSC 0N01

Co-op Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to COSC and BCB Co-op students.

COSC 0N02

Co-op Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to COSC and BCB Co-op students.

COSC 0N03

Co-op Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to COSC and BCB Co-op students.

COSC 0N04

Co-op Work Placement IV

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to COSC and BCB Co-op students.

COSC 0N05

Co-op Work Placement V

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to COSC and BCB Co-op students.

INTERNSHIP COURSE

COSC 2N90

Internship

Work placement of 8-16 months duration with an approved employer.

Restriction: open to students accepted into the Internship option.

Note: interviews with employer and student and completion, by the student, of a work report.

Computing and Business

This program is offered through the Department of Computer Science

Co-ordinator
David Hughes

Advisers
Danny Cho, Faculty of Business
David Hughes, Department of Computer Science

Director, Co-operative Programs
Cindy Dunne

General Information

Administrative Assistant
Donna Phelps

905-688-5550, extension 3513
Mackenzie Chown, J314
<http://www.cosc.brocku.ca>

Computing and Business is a four-year Honours program leading to a Bachelor of Computing and Business degree, designed for students with an interest in computer science and its application in business. With the current trends to outsourcing and contracting for the provision of computing resources in business, it is imperative that computing practitioners have a strong grounding in business and business practices. These practitioners need entrepreneurial skills as they will often have to establish themselves as independent consultants and compete for contracts. This degree is intended to prepare students to compete in this market.

BCB majors are required to maintain a minimum 75 percent major average in order to continue in the program.

There is also a program leading to a BSc in Computer Science offered by the Computer Science Department.

Co-op Program

The Computing and Business Co-op program combines academic and work terms over a four and one-half year period. Students spend one and one-half years in an academic setting studying the fundamentals of computer programming, algorithms, data-structures, Canadian business, business analysis and accounting, prior to their first work placement.

Successful completion of courses in the core areas of Computer Science and Business provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Co-op students are assessed an annual administration fee (see the Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. Students with a minimum 75 percent major average and a minimum 60 percent non-major average will be permitted to continue in the Computing and Business Co-op program. If a student subsequently raises his/her major average to 75 percent, the student may be readmitted only if approved by the Computing and Business Co-op Admissions Committee.

The Computing and Business Co-op program designation will be awarded to those students who have honours standing and have successfully completed a minimum of twelve months Co-op work experience.

An Internship option is also available in this program. Please consult the Computer Science entry for a listing of program requirements.

Program Note

In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1
•COSC 1P02, 1P03 and 1P50
•MGMT 1P93 and 1P96
•ECON 1P91 and 1P92
•MATH 1P66, 1P67 and 1P97

Year 2
•COSC 2P03, 2P12, 2P13, 2P32 and 2P90
•ACTG 1P91
•ECON 2P91
•MATH 1P98
•one Humanities context credit or one Sciences context credit

Year 3

- COSC 3F00
- ACTG 2P12 and 2P40
- one credit from ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91, OPER 2P91
- one COSC credit
- the Humanities context credit or Science context credit not taken in year 2

Year 4

- Two and one-half COSC credits numbered 3(alpha)90 or above
- one credit from ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91, OPER 2P91 (not taken in year 3)
- one-half business credit numbered 3(alpha)90 or above
- one non-business elective credit numbered 2(alpha)00 or above

Computing and Business Co-op

Students admitted to the Computing and Business program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- COSC 1P02, 1P03 and 1P50
- ACTG 1P91
- MGMT 1P93 and 1P96
- ECON 1P91 and 1P92
- MATH 1P66 and 1P67

Year 2

Fall Term:
•COSC 2P03, 2P12 and 2P90
•ACTG 2P12
•ECON 2P91
•SCIE 0N90

Winter Term:
•COSC 0N01

Spring/Summer Sessions:

- COSC 2P13 and 2P32
- ACTG 2P40
- MATH 1P97
- one-half non-business elective credit numbered 2(alpha)00 or above

Year 3

- COSC 3F00
- one-half COSC credit numbered 2(alpha)00 or above
- MATH 1P98
- one credit from ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91, OPER 2P91
- one Humanities context credit
- one Science context credit

Spring/Summer Sessions:

- COSC 0N02

Year 4

Fall Term:

- COSC 0N03

Winter Term:

- One and one-half COSC credits numbered 3(*alpha*)90 or above
- one of ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91, OPER 2P91 (not taken in year 3)
- one-half non-business elective credit numbered 2(*alpha*)00 or above

Year 5

Fall Term:

- One COSC credit numbered 3(*alpha*)90 or above
- one-half business credit numbered 3(*alpha*)90 or above
- one of ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91, OPER 2P91 (not taken in year 3 or year 4)
- one-half COSC credit numbered 2(*alpha*)00 or above (see program note 1)

Description of Courses

See relevant calendar entry for course descriptions.

Computing and Network Communications

This program is offered through the Department of Computer Science

Co-ordinator
John Radue

Adviser
Gord Dunkley

Director, Co-operative Programs
Cindy Dunne

General Information

Administrative Assistant
Donna Phelps

905-688-5550, extension 3513
Mackenzie Chown, J314
<http://www.cosc.brocku.ca>

This Co-op program caters to the increasing demand in the Information Technology industry for professionals who have a solid foundation in software development as well as practical technical skills in system security, telecommunications, network analysis and administration. Normally, this involves attending college after gaining a university degree, but the Brock and Sheridan program combines the two in a single integrated package.

The Computing and Network Communications Co-op program combines academic and work terms over a four and one-half year period. Admission to this program is on the basis of marks, a review of personal résumés and employer availability. An interview may be required. Students spend one and one-half years in an academic setting studying the fundamentals of computer programming, algorithms, and data-structures prior to their first work placement. Successful completion of courses in the core areas of Computer Science provides the necessary academic background for the work experience.

In addition to the current fees for courses in academic study terms, Co-op students are assessed an annual administration fee (see the Schedule of Fees). All fees are to be paid to the institution in which the student is currently enrolled.

Eligibility to continue in the co-op program is based on the student's major average and non-major average. Students with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue in the Computing and Network Communications Co-op program. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Computing and Network Communications Co-op Admissions Committee.

Upon successful completion of the required courses at Brock University and Sheridan College, students with a minimum 70 percent major average, a minimum 60 percent non-major average and having successfully completed a minimum of twelve months Co-op work experience, will be awarded a BSc (honours) Computing and Network Communications degree and a Telecommunications Technology Ontario three year diploma.

Program Note

In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- COSC 1P02, 1P03 and 1P50
- MATH 1P66, 1P67 and 1P97
- one Sciences context credit
- one Social Sciences context credit

Year 2

- Fall Term:
(taken at Brock University)
- COSC 2P03, 2P12 and 2P90
 - MATH 1P12 and 1P98
 - SCIE 0N90

Winter Term:

- COSC 0N01 (facilitated by Brock University)

Spring/Summer Sessions:

- (taken at Sheridan College)
- TELE20261 IP Engineering 1
 - DBAS29011 Database Management SQL
 - TELE20049 Legacy Systems

TELE20199 Enterprise Networking 2
•one Humanities context credit

Year 3

- Fall Term:
(taken at Sheridan College)
- Co-op Placement (facilitated by Sheridan College)

Winter Term:

- (taken at Sheridan College)
- TELE31831 - IP Engineering 2
 - TELE38525 - Network Operations
 - TELE35376 - Public Carrier Systems
 - SYST32907 - Operating Systems Design

Spring/Summer Sessions:

- Co-op Placement (facilitated by Sheridan College)

Year 4

- Fall Term:
(taken at Sheridan College)
- PROG31831 Systems Programming
 - DBAS22117 - Database Programming and Implementation
 - SYST28515 - Systems Analysis and Design
 - CTCH30146 - Advanced Computer Seminars
 - CTCH33314 - Graduation Project

Winter Term:

- (taken at Brock University)
- Two COSC credits numbered 3(*alpha*)90 or above
 - one-half elective credit

Year 5

- Fall Term:
(taken at Sheridan College)
- TELE31063 - IP Engineering 3
 - TELE34660 - Advanced LAN Topics
 - TELE33776 - Information Interface Technologies

Computing and Solid-State Device Technology

This program is offered through the Department of Physics

Co-ordinator

Fereidoon S. Razavi

Advisers

Edward Sternin, Department of Physics

Vladimir Wojcik, Department of Computer Science

Director, Co-operative Programs

Cindy Dunne

General Information

Administrative Assistant

Elizabeth Horvath

905-688-5550, extension 3412

Mackenzie Chown B210

<http://www.brocku.ca/cast/>

Computing and Solid-State Device Technology (CAST) is a unique Honours undergraduate program combining a thorough training in physics and natural sciences with an extensive education in computing. It offers a four-year Honours program leading to a Bachelor of Science in Computing and Solid-State Device Technology degree as well as a Co-op option. The program emphasizes practical aspects of computing; use of computer-based and other solid-state electronic devices in control, manufacturing and research; and the skills needed to interface and use solid-state devices in real-world applications. Students participating in this program should expect a considerable lab load.

First-year CAST students should consult the departmental web page, <http://www.brocku.ca/cast/>, for additional information before choosing courses for their program of study.

Co-op Program

The Computing and Solid-State Device Technology Co-op program combines academic and work terms over a four and one-half year period. Students spend two years in an academic setting, where they acquire the necessary background prior to taking the first work placement. In addition to the current fees for courses in academic study terms, Co-op

students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Co-op program, but may continue in the Computing and Solid-State Device Technology non-Co-op program.

The Computing and Solid-State Device Technology Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Program Notes

1. Students are recommended to include COSC 3P01.
2. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- CHEM 1P90
- COSC 1P02 and 1P03
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12
- one Humanities context credit or one Social Sciences context credit

Year 2

- PHYS 2P31 and 2P32
- COSC 2P12 and 2P13
- MATH 1P66 and 1P67
- MATH 2F05 or both MATH 2P03 and 2P08
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- PHYS 2P50, 2P51 and 3P92
- one of PHYS 3P35, 3P36, and 3P41
- COSC 2P03, 2P90 and 2P91
- one of COSC 2P93, 3P01, 3P71, 3P92, 3P95 and 4P78
- one elective credit (see program note 1)

Year 4

- PHYS 3P70 and 3P93
- one of PHYS 3P35, 3P36, 3P41 not taken in year 3
- PHYS 4F90 or both PHYS 4P92 and COSC 3P99
- one credit from COSC 2P93, 3P01, 3P71, 3P92, 3P95 and 4P78 (not taken in year 3)
- one and one-half elective credits (see program note 1)

Computing and Solid-State Device Technology Co-op

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- CHEM 1P90
- COSC 1P02 and 1P03
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12
- one Humanities context credit or Social Sciences context credit

Year 2

- PHYS 2P31 and 2P32
- COSC 2P12 and 2P13
- MATH 1P66 and 1P67
- MATH 2F05, or both MATH 2P03 and 2P08
- SCIE 0N90
- the Humanities context credit or Social Sciences context credit not taken in Year 1

Spring/Summer Sessions:

- PHYS 0N01

Year 3

- PHYS 2P50, 2P51, 3P92 and 3P93
- one of PHYS 3P35, 3P36 and 3P41
- COSC 2P03, 2P90 and 2P91
- one of COSC 2P93, 3P01, 3P71, 3P95 and 4P78
- one-half elective credit

Spring/Summer Sessions:

- PHYS 0N02

Year 4

Fall Term:

- PHYS 3P70
- one of PHYS 3P35, 3P36 and 3P41 (not taken in year 3)
- two of COSC 2P93, 3P01, 3P71, 3P95 and 4P78 (not taken in year 3)
- one-half elective credit

Winter Term:

- PHYS 0N03

Year 5

Fall Term

- PHYS 4F90 or both PHYS 4P92 and COSC 3P99
- one and one-half elective credits

Description of Courses

See relevant calendar entry for course descriptions.

Co-operative Programs

Director
Cindy Dunne

Associate Director
Gloria Dididato

Relationship Managers
Cara Boese, Dana Tonus

Relationship Managers
John-Paul Goldsworthy, Julia Zhu, James Cooper

Career Consultants
Sarah Kitsemetry

General Information

Administrative Assistant
Lubi Bellingham
Heather Azar

Mackenzie Chown A336
905-688-5550, extension 4325
Hours: Monday - Friday, 8:30 - 4:30
e-mail: co-op@brocku.ca
<http://www.brocku.ca/co-op/>

The Co-operative Programs Office at Brock provides information and assistance to applicants and registered students for all campus co-op and internship programs, and will:

- advise students regarding application to co-op programs, academic program requirements, job placements, and job searches
- recruit employers for co-op and internship placements
- maintain computerized online job banks for co-op and internship postings
- facilitate the co-op placement process from employer job posting through co-op employer offer to hire
- prepare students for successful placement experiences with pre-employment workshops
- introduce students and employer through co-op job postings and on-campus interview assistance;

- monitor and support employer/student placements with regards to placement quality and student contribution through a work site visitation and performance evaluation
- support student recruitment to co-op and internships programs and evaluate student applications for admission decisions
- provide placement information to the Registrar's Office for inclusion on students' academic transcripts

Students who are interested in applying to a co-op or internship program are encouraged to contact the Co-operative Programs Office for information.

What is a Co-op or Internship?

Co-operative education combines traditional undergraduate academic programming and relevant work experience in alternating terms. The work term experiences are designed to prepare students for their transition from university to the professional community. The 4 and 5 year programs enable students to acquire experience in their areas of career interest. The practical experiences and academic studies complement one another. The Co-op Programs Office manages the administration and facilitation of the co-op experience at Brock. Co-op coordinators for each program support students throughout their co-op experience.

Brock University co-op programs have clear advantages, particularly the limited class sizes that ensure appropriate time is allocated to each individual student. Students can explore career possibilities, where their interests lie and the type of work environment that best suits them, helping them make informed decisions about their career options. Co-op graduates have the highest rates of employment after graduation. Many employers use co-op programs as a way to identify and recruit their future permanent workforce.

List of Current Co-op Programs

(Please consult calendar copy for specific course requirements.)

Accounting
(BAcc Honours, 4.5 yrs)

Applied Linguistics/Teaching English as a Subsequent Language
(BA Honours, 4 yrs)

Biochemistry
(BSc Honours, 5 yrs)

Biotechnology
(BSc Honours, 5 yrs)

Business Administration
(BBA Honours, 4.5 yrs)

Business Economics
(BBE Honours, 4.5 yrs)

Chemistry
(BSc Honours, 5 yrs)

Computer Science
(BSc Honours, 4.5 yrs)

Computing and Business
(BCB Honours, 4.5 yrs)

Computing and Network Communications
(BSc Honours, 4.5 years)

Computing and Solid-State Device Technology
(BSc Honours, 4.5 yrs)

Dramatic Arts - Drama in Education and Society Stream
(BA Honours, 4 yrs)

Dramatic Arts - Dramatic Literature Stream
(BA Honours, 4 yrs)

Dramatic Arts - Theatre Stream
(BA Honours, 4 yrs)

Earth Sciences
(BSc Honours, 5 yrs)

Environmental Geoscience
(BSc Honours, 5 yrs)

Economics
(BA Honours, 4.5 yrs)

Geography (BA Honours, BSc Honours, 4 yrs)

Mathematics and Computer Science
(BSc Honours, 4.5 yrs)

Neuroscience
(BSc Honours, 5 yrs)

Oenology and Viticulture
(BSc Honours, 4 yrs)

Physics
(BSc Honours, 4.5 yrs)

Political Science - Public Administration
(BA Honours, 4.5 yrs)

Psychology
(BA Honours, With Major, 5 yrs)

Admission to Co-operative Programs

Admission to the co-op option at Brock University takes place in the final year of high school, and a limited number of students are also considered at the end of the fall term of their first year of university study for admission the following September.

Admission from secondary school (Ontario Grade 12U or M): Students applying to the co-op option normally require a minimum 80 percent average; some co-op degree programs also require at least one math with a 75 percent. Applicants may be required to submit a resume for consideration.

Digital Humanities

Director

Martin Danahay

Associate Professors

Jean Bridge, Barry W. K. Joe

Assistant Professors

John Bonnett, Kevin Kee, William J. Ralph

Facilities Co-ordinator

Stefan Kamendy

New Media Projects Development

Julia Babos

Computer Lab/Classroom Support

Clara Suba

Participating Faculty

Dale Bradley (Communication, Popular Culture and Film), Jean Bridge (Visual Arts), Martin Danahay (English Language and Literature), Barry Grant (Communication, Popular Culture and Film), David Hutchison (Teacher Education), David Hughes (Computer Science), John Mitterer (Psychology), Jon Radue (Computer Science), Bill Ralph (Mathematics), Virginia Reh (Dramatic Arts).

Co-operating Centres and Departments

Classics; Communication, Popular Culture and Film, Community Health Sciences; Computer Science; English Language and Literature; Dramatic Arts; Geography; Graduate and Undergraduate Education; History; Mathematics; Music; Psychology; Studies in Arts and Culture; Visual Arts

Academic Adviser

Alisa Cunningham

General Information

Administrative Assistant

Christine Coughlin

905-688-5550, extension 5363

Thistle 269F

<http://www.brocku.ca/iasc>

The Centre for Digital Humanities is dedicated to research and teaching that uses digital technologies for the examination, creation, transmission and preservation of human culture. Digital humanities is fundamentally interdisciplinary, engaging disciplines such as literature, language, history and the arts. Digital

tools in this context are used to support the development of innovative forms of analysis and new conventions of representation, narration and documentation. Digital humanities is dynamically oriented to a constantly evolving array of methods, formalisms and discourses.

Interactive Arts and Science

The Interactive Arts and Science program, offered through the Centre for Digital Humanities, provides students an opportunity to study and work in the exciting and rapidly expanding interdisciplinary field of new media and digital interactivity. In this program students will explore the interplay of digital media and our understanding of human identity and values with careful attention to ways in which discourses in technoculture, narrative, gameplay, computing and media production intersect. In addition to core IASC courses that blend theory and practice and facilitate the development of new media portfolios, students can satisfy their individual interests in selection of courses from departments as diverse as Classics, Communications, Popular Culture and Film, Computer Science, Dramatic Arts, Education, English, Geography, History, Music, Studies in Arts and Culture and Visual Arts.

The IASC program aims to engage students in learning through independent inquiry, problem solving and portfolio building. The program encourages the exploration of digital and interactive tools for analyzing, representing and visualizing ideas in many traditional academic areas. Conceptual strategies such as interactive fiction, games and simulations are tested in hands-on projects and multimedia creation. Students will enjoy the freedom to probe, analyze, manipulate and transform ideas into action. Because of the interdisciplinary nature of interactivity, team-based work creates opportunities to tackle complex projects in new and exciting media.

Facilities

The Centre for Digital Humanities provides two classroom laboratories; two multimedia presentation rooms; a Student Services Centre; a new media development lab; an audio-visual room; and a maintenance shop. Also accessible to the program is a smart room/video conferencing facility; Multimedia Production and Innovation Centre; computer graphics and multimedia lab.

Please consult the Interactive Arts and Science entry for a listing of courses and program requirements.

Distinct and Diverse Communities

Co-ordinator
Dorothy Griffiths

Program Co-ordinator and Adviser
Jo Stewart

General Information

Assistant to the Dean
Carol-Ann Farinacci

905-688-5550, extension 3425
Scotiabank Hall 324

The Distinct and Diverse Communities program involves courses offered through Brock University, a number of Colleges of Applied Arts and Technology in the Province of Ontario, and an Aboriginal Education Institute (AEI) in Ontario. This four-year program combines either an Honours Bachelor of Arts (BA) Distinct and Diverse Communities or a BA With Major Distinct and Diverse Communities at Brock with practical coursework and training in a variety of applied social service settings at the colleges and the AEI.

Students obtain both solid applied skills and a strong theoretical foundation in a variety of aspects of social services. The program leads to career opportunities in a wide variety of areas in the social services that are aimed at assisting members of a number of distinct and diverse communities in the Province of Ontario. At Brock, students complete an integrated series of courses from a wide variety of disciplines. At the colleges and the AEI, students complete a diploma/certificate program that offers them applied knowledge and skills development and training in a specific area of social services. Obtaining both an Honours BA or BA with Major and a college diploma or certificate would ordinarily involve at least five years of study, but this program combines the two in a single integrated package that can be completed in four years. Enrolment is limited.

Requirement for graduation with a BA (Honours) Distinct and Diverse Communities degree is a minimum 70 percent major average,

a minimum 60 percent non-major average and a minimum 60 percent overall average. Requirement for graduation with a BA With Major Distinct and Diverse Communities degree is a minimum 60 percent major average and a minimum 60 percent overall average.

Further details concerning the Distinct and Diverse Communities program are available from the Office of the Dean of Social Sciences.

Program Notes

1. No more than 5.0 credits may be taken from any one discipline.
2. Students must apply to the Office of the Dean of Social Sciences at the end of Year 1 for admittance to the college program(s). Admittance to these programs is limited to those students with a 70 percent overall Brock average. Students who do not meet this entrance requirement will be required to change their major at the end of Year 1. Students must maintain a minimum 70 percent overall average in Year 2 in order to proceed to the college/AEI program in Year 3.
3. ABST 1F20, 1P01, 1P02, 1P03, 1P04, 1P31, 1P32 are recommended.
4. Language credit must be taken from the following list: FREN 1F00, 1F01, 1F90, ITAL 1F00, 1F01, 1F90, ARAB 1F00, GERM 1F00, 1F90, JAPA 1F00, 1F80, MAND 1P00, 1P01, 1P80, 1P81, PORT 1F00, 1F90, RUSS 1F00, SPAN 1F00, 1F90, SWAH 1F00.
5. DART 1F93, CANA 1F91, ENGL 1F91, 1F95, 1F97, LART 1F90, LART 1F93, VISA 1Q98, 1Q99 are recommended for Aboriginal stream.
6. CANA 1F91 is recommended for Immigrants and Refugees stream.
7. Students who opt to take WISE 3P41, 3P42, 4P41 or 4P42 must obtain permission of the Program Co-ordinator.
8. Admission to year 4 (Honours) is by application and requires a minimum 75 percent overall average.
9. In 20 credit Honours degree programS a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits

must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In this 20 credit BA with Major degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least four and one-half credits must be numbered 2(alpha)90 or above; at least one and one-half credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Brock/Colleges Articulation Agreement

Social Service Worker Program

Aboriginal Stream - Anishinabek Educational Institute or Sault College

Year 1

- ABST 1F90
- CHSC 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or one Sciences context credit (see program note 5)

Year 2

- Three credits from the list of approved Distinct and Diverse Communities-Aboriginal stream courses (see program note 9)
- one of MATH 1F92, one language credit, one APCO/COSC credit (see program note 3)
- the Humanities context credit or Sciences context credit not taken in year 1

Year 3

- taken at Anishinabek Educational Institute or at Sault College

Year 4

- Four credits from the list of approved Distinct and Diverse Communities-Aboriginal stream courses (see program notes 7 and 9)
- one elective credit (see program note 9)

Disabilities Stream - Humber College or St Lawrence College

Year 1

- BIOL 1F25
- CHSC 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit

Year 2

- Three credits from the list of approved Distinct and Diverse Communities-Disabilities stream courses (see program notes 7 and 9)
- one of MATH 1F92, one language credit, one APCO/COSC credit (see program note 4)
- one elective credit (see program note 9)

Year 3

- taken at Humber College or St Lawrence College

Year 4

- Four credits from the list of approved Distinct and Diverse Communities-Disabilities stream courses (see program notes 7 and 9)
- one elective credit (see program note 9)

Immigrants and Refugees Stream - Seneca College

Year 1

- CHSC 1F90
- PSYC 1F90
- SOCl 1F90
- one POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99 (POLI 1P93 recommended; see program note 9)
- one Humanities context credit or Sciences context credit (see program note 6)

Year 2

- Three credits from the list of approved Distinct and Diverse Communities-Immigrants and Refugees stream courses (see program note 9)
- one of MATH 1F92, one language credit, one APCO/COSC credit (see program note 4)
- the Humanities context credit or Sciences context credit not taken in year 1

Year 3

- taken at Seneca College

Year 4

- Four credits from the list of approved Distinct and Diverse Communities-Immigrants and Refugees stream courses (see program note 9)
- one elective credit (see program note 9)

Approved Distinct and Diverse Communities Courses offered by Other Departments/Centres

Note: As many of the courses listed below have prerequisites, students should plan their programs in advance.

Aboriginal Stream

ABST 1F20

Introduction to Algonkian Languages

ABST 1P01

Introduction to Mohawk I

ABST 1P02

Introduction to Mohawk II

ABST 1P03

Introduction to Cayuga I

ABST 1P04

Introduction to Cayuga II

ABST 1P50

Aboriginal Spirituality I

ABST 1P51

Aboriginal Spirituality II

ABST 2F01

Intermediate Mohawk

ABST 2F90

Studies in Hodinohsonni History I

ABST 2F92

Studies in Hodinohsonni History II

ABST 2F96

Studies in Hodinohsonni Culture I

ABST 2F97

Studies in Aboriginal Culture (in Mohawk)

ABST 2F98

Studies in Hodinohsonni Culture II

ABST 2M90-2M95

Studies in Aboriginal History

ABST 2M96-2M99

Studies in Aboriginal Culture

ABST 2P03

Intermediate Cayuga I

ABST 2P04

Intermediate Cayuga II

ABST 3F01

Advanced Mohawk

ABST 3F03

Advanced Cayuga

ABST 4F01

The Iroquois Spirit

ADED 4F84

Aboriginal Adult Education: Beginning Our Journeys

CANA 3P17

Unity and Diversity

CHSC 2P15

Processes of Health and Wellness

CHSC 2P91

Nutrition

CHSC 3P93

Advanced Nutrition

CHSC 3P96

The Development of Healthy Communities

DART 2P96

Aboriginal Theatre
(also offered as ABST 2P96)

HIST 2Q97

Native-Newcomer Relations In Canada

HIST 3P35

North America's First Nations

INTC 1P80

Intercultural Contact and Communication

INTC 2P94

Theories and Models of Intercultural Communications

INTC 3P92

Applications of Theories and Models in Intercultural Studies

LING 2P99

Literacy in Childhood and Youth
(also offered as CHYS 2P99)

PEKN 2P41
Health and Physical Activity Promotion

PEKN 2P85
Psychosocial Health and Physical Activity

PEKN 3P41
Health and Well-being

PHIL 2P08
Ethics: Foundations Cases

POLI 1P50
Introduction to Dispute Resolution

POLI 3P18
Law and Politics

PSYC 2P30
Fundamentals of Social Psychology

PSYC 3P28
Introduction to Abnormal Psychology

PSYC 3P33
Psychology of Intergroup Behaviour
(also offered as COMM 3P33)

PSYC 3P51
Health Psychology

PSYC 3P72
Drugs and Behaviour

PSYC 3P75
Stress

PSYC 4P71
Prejudice and Discrimination

PSYC 4P78
Topics in Clinical Psychology

PSYC 4P79
Topics in Counselling and Psychotherapy

RECL 1P03
Introduction to Leisure in Canadian Society

SOCI 2P33
Law and Social Justice

SOCI 2P58
Self and Society

SOCI 2P65
Liberties, Rights and Protections

SOCI 3P33
Law and Social Regulation

SOCI 3P46
Aboriginal Peoples in Canadian and Global
Perspectives
(also offered as ABST 3P36)

SOCI 3P47
Racism and Anti-racism

SOCI 4P33
Law and Society

SOCI 4P70
Social Issues in the Community

SOCI 4P87
Social Inequality

WISE 2P99
Canadian Women in a Global Context
(also offered as INTC 2P99 and SOCI 2P99)

Disabilities Stream

CHSC 2P21
The Health of Canadian Society

CHSC 2P50
Introduction to Human Sexuality

CHSC 2P51
Advanced Human Sexuality

CHSC 2P91
Nutrition

EDUC 1F95
Introduction to Foundations in Education

EDUC 2F01
Cognition and Learning
(also offered as CHYS 2F01)

EDUC 2P65
Diversity Issues in Schooling

EDUC 3F01
The Process of Teaching

EDUC 3P40
Family, Schools and Literacy

EDUC 3P45
Reading and Literacy Development

EDUC 4P04
Observation and Evaluation for the Early Years

ENGL 2P10
Young People's Literature to 1914

ENGL 2P11
Young People's Literature After 1914

HIST 2P25
Revolutions in Communication

LING 1F25
The Study of Language

LING 1P00
American Sign Language I

LING 1P01
American Sign Language II

LING 1P92
Introduction to the Psychology of Language

LING 1P93
Introduction to Communication Disorders

LING 2P01
American Sign Language III

LING 2P02
American Sign Language IV

LING 3P61
Child Language Acquisition: Early Stages
(also offered as CHYS 3P61 and PSYC 3P61)

LING 3P97
Introduction to Audiology

LING 3Q93
Introduction to Neurolinguistics

PEKN 2P41
Health and Physical Activity Promotion

PEKN 2P92
Foundations in Adapted Physical Education
and Disability Studies

PHIL 2P08
Ethics: Foundations and Cases

PHIL 2P09
Ethical Theories

PHIL 2P95
Bioethics
(also offered as BIOL 2P95)

PSYC 2P12
Lifespan Development

PSYC 2P36
Brain and Behaviour I
(also offered as NEUR 2P36)

PSYC 2P37 Brain and Behaviour II (also offered as NEUR 2P37)	SOCI 3P66 Social Movements (also offered as LABR 3P66)	INTC 1P80 Introduction to Intercultural Studies
PSYC 3F20 Abnormal Psychology	SOCI 4P26 Sociology of Health (also offered as CHSC 4P26)	INTC 2P94 Theories and Models of Intercultural Relations
PSYC 3P18 Adolescent Development	SOCI 4Q41 Social Policy (also offered as WISE 4Q41)	LING 3Q91 Second Language Acquisition and Learning (also offered as PSYC 3Q91)
PSYC 3P28 Introduction to Abnormal Psychology	WISE 2Q90 Mothering and Motherhood: Images, Issues and Patterns (also offered as SOCI 2Q90)	MLLC 2P94 Comparative Analysis of Romance Linguistics (also offered as LING 2P94)
PSYC 3P51 Health Psychology	WISE 3P41 Directed Studies I	PHIL 2P08 Ethics: Foundations and Cases
PSYC 3P59 Introduction to Human Neuropsychology (also offered as NEUR 3P59)	WISE 3P42 Directed Studies II	PHIL 2P12 Indian Philosophy: An Introduction to Hindu Thought (also offered as INTC 2P12)
PSYC 3P67 Bases of Neuropsychopharmacology (also offered as NEUR 3P67)	WISE 4P41 Directed Studies III	PHIL 2P13 Indian Philosophy: An Introduction to Buddhist Thought (also offered as INTC 2P13)
PSYC 3P72 Drugs and Behaviour	WISE 4P42 Directed Studies IV	PHIL 2P17 Introduction to Chinese Philosophy (also offered as INTC 2P17)
PSYC 4P27 Psychology of the Exceptional Child	Immigrants and Refugees Stream	PHIL 2P96 Philosophy of Human Nature
PSYC 4P56 Maturation and Development (also offered as CHYS 4P56)	CANA 2P91 Culture and Power in Canada I: Cultural Communities	PHIL 3P94 Ghandi and Non-violence (also offered as INTC 3P94)
RECL 1P03 Introduction to Leisure in Canadian Society	CANA 3P17 Unity and Diversity	PHIL 3P95 Taoism (also offered as INTC 3P95)
RECL 1P12 Introduction to Inclusive and Therapeutic Recreation	CHSC 2P15 Processes of Health and Wellness	POLI 2F20 International Relations
RECL 2P52 Leisure and Disabilities	CHSC 3P59 Diversity and Health	POLI 2P42 The Rise of China
SOCI 2P21 Sociology of Families (also offered as WISE 2P21)	HIST 2P66 Twentieth-Century East Asia	POLI 2P47 Rights Across Borders
SOCI 2P33 Law and Social Justice	HIST 2P72 Modern Middle East	POLI 2V40-2V49 Government and Politics of a Selected Nation State
SOCI 3P27 Psychiatric Sociology (also offered as CHSC 3P27)	HIST 2Q94 Women in North America (also offered as WISE 2Q94)	POLI 2V70-2V79 Politics and Culture
SOCI 3P33 Law and Social Regulation	HIST 3P74 Canadian Immigration and Ethnic History	
	INTC 1F90 Foundations of Intercultural Studies	

POLI 3P02 Citizenship	SOCI 2P58 Self and Society
POLI 3P18 Law and Politics	SOCI 2P65 Liberties, Rights and Protections
POLI 3P26 International Law and International Organization	SOCI 2P83 Cultural Anthropology of the Contemporary World (also offered as INTC 2P83)
POLI 3P43 Politics in the Developing World	SOCI 3P47 Racism and Anti-Racism
POLI 3P52 Ethics in Government	SOCI 4P47 Racism and Anti-racism
POLI 4P20 Globalization and Global Governance	SOCI 4P70 Social Issues in the Community
POLI 4P26 International Politics and National Security	SPAN 4P01 Latin American Women's Perspectives (also offered as WISE 4P01)
POLI 4P27 Theories of International Relations	WISE 2P90 Women's Issues: Sexuality, Class and Ethnicity (also offered as SOCI 2P90)
POLI 4P39 Elites and Power	WISE 2P99 Canadian Women in a Global Context (also offered as INTC/SOCI 2P99)
PSYC 2P30 Fundamentals of Social Psychology	WISE 2Q90 Mothering and Motherhood: Images, Issues and Patterns (also offered as SOCI 2Q90)
PSYC 3P28 Introduction to Abnormal Psychology	
PSYC 3P33 Psychology of Intergroup Behaviour (also offered as COMM 3P33)	
PSYC 3P51 Health Psychology	
PSYC 3P75 Stress	
PSYC 4P71 Psychology of Prejudice and Discrimination	
PSYC 4P78 Topics in Clinical Psychology	
PSYC 4P79 Introduction to Counselling and Psychotherapy	
RECL 1P03 Introduction to Leisure in Canadian Society	
RECL 3P23 Therapeutic Benefits of Humour	

Description of Courses

See relevant calendar entry for course descriptions.

Dramatic Arts

Chair

Marlene Moser

Professor Emerita

Mary Jane Miller

Associate Professors

Glenys McQueen-Fuentes, Marlene Moser,
Gyllian Raby

Assistant Professors

Natalie Alvarez, David Fancy, Jane Leavitt,
Virginia Reh, David Vivian

Production Manager

Brian Cumberland

Technical Director

Adrian Palmieri

Head of Wardrobe

Roberta Doyle

Technical Production Assistant

Doug Ledingham

Part Time Instructors

Christine Anderson, Tanya Apostolidis,
Suzanne Burchell, Jill Carter, David Copelin,
Terrance Cox, Kelly Daniels, Matt Flawn, Barry
Freeman, Trevor Hughes, Kathryn Kerr, Leigh
Hurst Kerr, Cindy Maude, Jon Osbaldeston,
Nadine Sivak, Jaqueline Taucar, Danielle
Wilson, Barbara Worthly, Helen Zdriluk

Resident Theatre Company: Theatre Beyond Words

<http://www.theatrebeyondwords.com>

Artistic Committee Members

Harro Maskow, Artistic Director
Terry Judd, Co-Artistic Director
Robin Patterson, Co-Artistic Director

Director, Co-operative Programs

Cindy Dunne

Academic Adviser

Alisa Cunnington

General Information

Administrative Assistant

Georgann Watson

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Thistle 136D

http://www.brocku.ca/dramatic_arts

The Department of Dramatic Arts (DART), part of the Marilyn I. Walker School of Fine and Performing Arts (SFPA), addresses the study, application and interrogation of the discipline as cultural and educational practice.

The Department of Dramatic Arts offers a BA Honours in Dramatic Arts. For honours students, Concentrations are available in Applied Theatre, Drama in Education, Performance, Production and Design and Theatre Praxis. The Department also offers a four-year (20 credit) BA with Major Dramatic Arts degree and a three-year BA Pass degree. A Certificate program in Drama in Education and Society as well as Minor in Dramatic Arts are also offered for non-DART majors.

Dramatic Arts offers two concurrent BA (Honours)/BED programs over five years. See calendar entry under Education - BA (Honours)/BED (Intermediate/Senior) and Education BA Integrated Studies (Honours) (Junior/Intermediate).

All Dramatic Arts degree offerings are united under one goal: to integrate theory and practice so as to provide students with a broad educational base combining research, practice and creative development. Pedagogical practices and performance, design, and technical skills are theorized and integrated in various ways with the study of critical thinking, theatre history, dramaturgy and dramatic literature.

Projects include two major productions, as well as various minor productions and events, such as the Marilyn I. Walker School of Fine and Performing Arts Showcase.

The Dramatic Arts Co-op program combines academic and work terms over a four-year period. Students spend one year in an academic setting studying the fundamentals of dramatic arts prior to taking the first work placement. In addition to the current fees for courses in academic study terms, Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Dramatic Arts Co-op program.

The Dramatic Arts Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Language Requirement for Humanities Majors

Students in the Department of Dramatic Arts are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirement, both half credits must be in the same language. It is recommended that students satisfy this requirement by year 3.

Program Notes

1. Students must satisfy context requirements before year 3.
2. A minimum of 60 percent in each of DART 1F93, DART 1F95, 1P97 and 1P99 is required in order to proceed as a major in Dramatic Arts.
3. At the end of the first year students should declare a Concentration choice.
4. Performance Concentration students must successfully complete an audition at the end of each academic year.
5. Performance Concentration students must take 3P91 and 4P51 at the Stratford Festival in the summer preceding their 4th year.
6. Year 3 courses are normally restricted to students with at least three 2(alpha)00 credits or permission of the instructor.
7. Enrolment in some courses may be restricted due to space limitations.
8. Students seeking admission to the honours program must have a minimum 70 percent overall average in their DART courses.
9. Students wishing to pursue a career in teaching at the high school level must plan their core and context courses and electives carefully in order to attain the required three courses in a single area of study outside Dramatic Arts as a second teachable.
10. ENGL 2P80, 2P81, 2P82, 2P83, 2P84 may be taken as year 2 DART credits with permission of the Chair.
11. Students may take Advanced Special Studies in Dramatic Arts courses that are approved by the Department, to satisfy requirements. Contact the Department.

12. Concurrent BA/BEEd Students, requiring Dramatic Arts as a teachable subject, please contact the Department.

13. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- DART 1F93, 1F95, 1P97 and 1P99
- one language credit (see language requirement)
- one Sciences context credit or one Social Sciences context credit

Year 2

- DART 2F41, or DART 2P01 and 2P02
- DART 2F50, 2F94 and 2P92
- one of DART 2P42, 2P96, 2P97
- the Sciences context credit or Social Sciences context credit not take in year 1

Year 3

- Two credits from DART 3F50, 3F61, 3F77, 3F78, DART 3P53 and one-half DART credit
- DART 3F94, 3P95 and 3P96
- one elective credit

Year 4

- One credit from DART 2P96, 2P97, 3P90, 3P91
- DART 4F40 or 4F56
- DART 4F90
- two elective credits

Dramatic Arts Co-op (Honours only)

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office and the Department of Dramatic Arts.

Year 1

- DART 0N90, 1F93, 1F95, 1P97 and 1P99
- one language credit (see language requirement)
- one Sciences context credit or one Social Sciences context credit

Spring/Summer Sessions:

- DART 0N01

Year 2

- DART 2F41 and 2P41, or DART 2P01 2P02 and 2P70
- DART 2F50 and 2F94
- one of DART 2P92, 2P96, 2P97
- the Sciences context credit or Social Sciences context credit not taken year 1

Spring/Summer Sessions:

- DART 0N02

Year 3

- One of DART 3F50, 3F61, 3F76, 3F77, 3F78 DART 3F94
- one and one-half DART credits
- one and one-half elective credits

Spring/Summer Sessions:

- DART 0N03

Year 4

- One of DART 3P90, 3P91, 3P95
- DART 4F40 or 4F56
- DART 4F90
- one DART credit
- one and one-half elective credits

Concurrent BA (Honours/BEEd)

The Department of Dramatic Arts and the Faculty of Education co-operate in offering two Concurrent BA (Honours)/BEEd programs. The Dramatic Arts BA (Honours)/BEEd program combines the BA Honours program or the BA Integrated Studies Honours program with the teacher education programs for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10.) Refer to the Education-Concurrent BA (Honours)/BEEd (Intermediate/Senior) or Education-Concurrent BA Integrated Studies (Honours)/BEEd (Junior/Intermediate) program listings for further information.

BA with Major Program

Year 1

- DART 1F93, 1F95, 1P97 and 1P99
- one language credit (see language requirement)
- one Sciences context credit or one Social Sciences context credit

Year 2

- DART 2F41 and 2P42, or DART 2P01, 2P02 and 2P70
- DART 2F50 and 2F94
- one of DART 2P92, 2P96, 2P97
- the Sciences or Social Sciences context credit not taken year 1

Year 3

- One of DART 3F50, 3F61, 3F76, 3F77
- DART 3F94
- one and one-half DART credits
- one and one-half elective credits

Year 4

- One of DART 3P90, 3P95, 3P91
- DART 4F40 or 4F56
- two DART credits
- one and one-half elective credits

Pass Program

Year 1

- DART 1F93, 1F95, 1P97, and 1P99
- one language credit (see language requirement)
- one Sciences context credit or one Social Sciences context credit

Year 2

- DART 2F41 or DART 2P01 and 2P02
- DART 2F50 and 2F94
- the Sciences context credit or Social Sciences context credit not taken in year 1
- one elective credit

Year 3

- DART 3F94
- one credit from DART 2P92, 2P96, 2P97, 3P90, 3P95, 3P96
- one credit from DART 3F50, 3F61, 3F76, 3F77, 3F78, 3P03, 3P04, 3P05, 3P08
- one DART credit
- one elective credit

Combined Major Program

Students may take a combined major in Dramatic Arts and a second discipline subject to a coherent plan of study approved in advance by the Chair. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

students until date specified in Registration guide. Students must hold a minimum of 4.0 overall credits.

Note: materials fee required. Drama in Education and Society Certificate students may register without the minimum of 4.0 overall credits. Contact the Dramatic Arts Department.

DART 2P02

Role-playing, Role Drama and Story

The art and structuring of story and other literary sources as catalysts for drama and interactive learning. Combined theory and practice including work experience.

Lectures, workshop, 4 hours per week.

Restriction: open to DART (single or combined), DART (Honours)/BEd (Intermediate/Senior) majors, minors and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisite: DART 2P01 or permission of the instructor.

Note: materials fee required.

DART 2P42

Stage Production

Supervised practical work in technical theatre by assignment to Department production crews.

Lectures, lab, 5 hours per week; additional crew calls and production time as required.

Restriction: open to DART (single or combined) majors and permission of instructor. Prerequisites: DART 1F93, 1F95, 1P97 and 1P99 (1F99).

Co-requisite: DART 2F41.

Note: enrolment limited to 30 students. Entry is based on academic standing in DART 1F93, 1F95, 1P97 and 1P99 (1F99). Materials fee required.

DART 2P70

Research and Practice in Production Styles

Overview of technical and production issues required for performance, ceremony and public presentation.

Lectures, lab, 4 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisite: DART 1F95, 1P99 (1F99) or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade and credit obtained in DART 2F41.

DART 2P92

Script Analysis and Interpretation

Scripts across genres and time periods, both in terms of writing techniques and as a point of

departure for their interpretation by actors, directors and designers.

Lectures, seminar, 3 hours per week.

Prerequisite: DART 1F93 or one ENGL credit numbered 1(alpha)90-1(alpha)99.

Note: materials fee may be required. Students with credit in IASC 1F00 may be able to register. Contact the instructor.

Completion of this course will replace previous assigned grade and credit obtained in DART 2F92.

DART 2P93

Hispanic Theatre in Translation

(also offered as SPAN 2P93)

Introduction to Hispanic dramatic literature and performative culture from Spain and Latin America. Discussion of social and cultural background of each play; play analysis; creative and critical thinking.

Lectures, 3 hours per week.

Prerequisite: one of DART 1F93, 1F95, DART 1P97 and 1P99 (1F99) SPAN 1F90, 1F91.

Note: assignments are designed to adapt to the student's major. Course given in English.

* DART 2P96

Aboriginal Theatre

(also offered as ABST 2P96)

Theatrical, dramatic and performative representation of Aboriginal peoples in the Canadian experience.

Lectures, seminar, 3 hours per week.

Prerequisite: DART 1F93 or permission of the instructor.

Note: materials fee may be required.

DART 2P97

Canadian Theatre

Canadian experience as expressed in performance, using English-language plays and French-language plays (in translation).

Lectures, seminar, 3 hours per week.

Prerequisite: DART 1F93 or one ENGL credit or permission of the instructor.

Note: materials fee may be required.

DART 2V90-2V99

Special Studies in Dramatic Arts

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Note: materials fee may be required.

DART 3F02

Ancient Drama

(also offered as CLAS 3F02)

Greek and Roman tragedy and comedy in English translation, including such authors as the tragedians Aeschylus, Sophocles, Euripides and Seneca, and the comic playwrights, Aristophanes, Menander, Plautus and Terence. Ancient drama in its literary, theatrical and socio-historical contexts.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from DART 1F93 CLAS 1P91, 1P92, 1P95, 1P97.

DART 3F50

Performance II

Further studies in acting technique emphasizing scene analysis in the creation of character and context.

Seminar, workshop, 5 hours per week.

Restriction: permission of the instructor.

Prerequisite: DART 2F04 or 2F50.

Note: enrolment limited to 16 students.

Materials fee required.

DART 3F61

Design: Theatrical Design

Research techniques and practice of design for the theatre.

Lectures, seminar, workshop lab, 5 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisites: DART 2F94; one of DART 2F41, DART 2P70 and one-half DART credit, VISA 2P97 and 2P98 (2F96).

Note: materials fee required.

DART 3F76

Theatre in Education: Children's Theatre

Theoretical study and practical analysis of professional theatre for young audiences.

Lectures, workshop, 3 hours per week; field trips as required.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisites: DART 2P01 and 2P02 or permission of the instructor.

Note: enrolment limited. Materials fee required.

Completion of this course will replace previous assigned grade and credit obtained in DART 3P06.

DART 3F77

Theatre in Education: Theatre for a Community

Processes of putting on a play for a community: the place of the play in the community; choosing the play; finding the production team; running rehearsals; play-building around a theme or topic.

Lectures, workshop, 3 hours per week; additional production and rehearsal time as required.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisites: DART 1F95, or DART 2P01 and 2P02 or permission of the instructor.

Note: enrolment limited to 20 students.

Students with equivalent experience may register without prerequisite. Materials fee required.

Completion of this course will replace previous assigned grade and credit obtained in DART 3P07.

DART 3F78

Theatre in Education: Alternative Forms of Theatre

Adaptation of global theatre into classroom and community settings emphasizing research, discussion and performance.

Lectures, workshop, 5 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisites: DART 2P01 and 2P02

Note: materials fee required.

DART 3F94

Theatre as Cultural Practice II

Integrated study of theatre history, theory and dramatic literature from the advent of realism in the 20th century to the present, concentrating on the context of cultural developments, including theories of acting, dramatic criticism, theatre historiography.

Lectures, seminar, 3 hours per week.

Prerequisite: DART 2F94 or one ENGL credit numbered 2(alpha)00 or above.

Note: materials fee may be required. Students with one IASC credit may be able to register. Contact the instructor.

DART 3F96

Interdisciplinary Workshop

(also offered as IASC 3F96 and VISA 3F96)

Advanced studio workshop in interdisciplinary studio practices, including video, performance, audio and conceptual art, interventions and other time-based or experimental media. Projects involve collaboration and investigation of alternatives in public dissemination of artworks.

Lectures, studio work, reading, movement exercises, off-campus projects, 5 hours per week.

Prerequisites: one credit from VISA 2P95 2P96, 2P97, 2P98, (2F96), 2P99 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials. Several field trips are organized outside the regular course meeting time. Students participating in field trips are expected to pay their own expenses.

DART 3F99

Advanced Tutorial in Dramatic Arts

Advanced study in an area of mutual interest to the student and the instructor.

Restriction: permission of a faculty supervisor.

Note: a written proposal must be approved by the Department before registration.

DART 3M90-3M99

Advanced Special Studies in Dramatic Arts

Restriction: permission of the Department.

DART 3P03

Structuring for Drama: Creating the Fictional Context

Composing contexts for integrated learning through the arts in schools and elsewhere.

Lectures, workshop, 3 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisites: DART 2P01 and 2P02 or permission of the instructor.

Note: materials fee required.

DART 3P04

Drama in Applied Contexts

Exploration of theories and practical strategies of Applied Theatre with an emphasis on participatory and performative modes of group facilitation.

Lectures, workshop, 4 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisite: DART 1F95 or permission of the instructor.

Note: enrolment limited to 25 students. Materials fee required.

DART 3P05

Drama in Language Arts and History Studies

Drama in Education theories and practical strategies to motivate and enrich learning within these broad areas of study.

Lectures, workshop, seminar, 3 hours per week; field trips as required.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisites: DART 2P01 and 2P02 or permission of the instructor.

Note: enrolment limited. Materials fee required.

DART 3P08

Movement: Applications for Education and Theatre

Theoretical and practical overview of the role of movement in contemporary theatre and in education. Exploration and development of methods for adapting and applying these major theories for creative and educational use.

Lectures, workshop, lab, 4 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisite: DART 2F50, or DART 2P01 and 2P02 or permission of the instructor.

Note: materials fee may be required.

DART 3P09

Commedia dell'Arte and Improvisation

Character-based improvisation for the creation of narrative structures; and contemporary manifestations of commedia style performance from the foundation of the classical Italian Commedia dell'Arte

Lectures, lab, 4 hours per week.

Restriction: open to DART (single or combined) and DART (Honours)/BEd (Intermediate/Senior) majors, and Drama in Education and Society Certificate students until date specified in Registration guide.

Prerequisite: DART 2F04 or 2F50 (may be taken concurrently).

Note: materials fee may be required.

DART 3P10

Voice and Speech

Introduction to using the voice effectively to develop range and power in speaking dramatic text. Topics include breathing, diction, modulation, projection and resonance.

Workshop, lab, 5 hours per week.

Restriction: open to DART (single or combined), and DART (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisites: DART 2F50.

Note: enrolment limited. Materials fee may be required.

DART 3P42

Stage and Production Management

Interpersonal relations, preparing a prompt book, recording and calling cues, rehearsal and performance procedures.

Lectures, seminar/lab, 5 hours per week; additional production time as required.

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisites: DART 2F41 and 2P42 or permission of the instructor.

Note: requires stage management of a production. Materials fee required.

DART 3P53

Directing I: Dramaturgy

Text analysis, visual vocabulary, theatrical conventions and dramatic rhythms used in preparing to direct a play.

Lectures, lab, 5 hours per week.

Restriction: students must have a minimum of 10.0 overall credits or permission of the instructor.

Prerequisites: DART 2F41 or 2P70; DART 2F50.

Note: materials fee required.

DART 3P54

Directing II

Directing practicum focusing on creating action, total theatre composition, team management and communications.

Lab, 5 hours per week.

Restriction: permission of the instructor.

Prerequisite: DART 3P53.

Note: enrolment limited to 16 students. Entry is based on academic standing in DART 3P53. Materials fee required.

DART 3P90

Postcolonial Theatre

Study of postcolonial theory and theatre.

Lectures, seminar, 3 hours per week.

Prerequisites: one credit from DART 2P92 (2F92), 2F94, DART 2P96, 2P97 or permission of the instructor.

Note: materials fee may be required.

DART 3P91

Shakespeare in Performance

Shakespeare: period performance conditions and stage history, based on close analysis of selected texts.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum of 10.0 overall credits.

Prerequisite: one credit from DART 2F94, 2P92 (2F92), 2P96, 2P97, two ENGL credits numbered 2(alpha)00 to 2(alpha)99.

Note: materials fee may be required. Also offered as a three-week intensive summer course at the Stratford Festival. Contact the Department for further details.

DART 3P92

Scriptwriting

Theory and practice of writing with action, character and dialogue.

Seminar, workshop, 3 hours per week.

Restriction: students must have a minimum of 10.0 overall credits and permission of the instructor.

Note: materials fee required.

DART 3P95

Studies in Praxis I

Focussed study of performance theories.

Lectures/seminar, 3 hours per week.

Prerequisite: one credit from DART 2F94, 2P92 (2F92), 2P96, 2P97 or permission of the instructor.

Note: materials fee may be required. Students with credit in IASC 3F00 may be able to register. Contact the instructor.

DART 3P96

Studies in Praxis II

Application of performance studies in practice.

Seminar, lab, 4 hours per week.

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisite: DART 3P95.

Note: materials fee required.

DART 3P97

Advanced Tutorial in Dramatic Arts

Restriction: permission of a faculty supervisor.

Note: a written proposal must be approved by the Department before registration. Materials fee may be required.

DART 3V90-3V99

Advanced Special Studies in Dramatic Arts

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

DART 3Y43

Theatrical Lighting

Studies in lighting operation and design.

Lectures, seminar/lab, 5 hours per week; additional production time as required.

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisite: DART 2F41 or permission of the instructor.

Note: materials fee required.

DART 3Y44

Theatrical Props Production

Study and construction of theatrical props.

Lectures, seminar/lab, 5 hours per week; additional production time as required.

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisite: DART 2F41 or permission of the instructor.

Note: materials fee required.

DART 3Y45

Scenic Painting

Theories and practice of painting scenery for theatrical use.

Lectures, seminar/lab, 5 hours per week; additional production time as required.

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisite: DART 2F41 or permission of the instructor.

Note: materials fee required.

DART 3Y46

Make-up and Wigs

Introduction to creating character and special effects through make-up; introduction to use

and maintenance of wigs.

Lectures, seminar/lab, 5 hours per week; additional production time as required.

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisite: DART 2F41 or permission of the instructor.

Note: materials fee required.

DART 3Y92

Costuming for Theatre

Creative, research and technical approaches to costuming for theatre.

Lectures, seminar, workshop, lab, 5 hours per week.

Restriction: open to DART (single or combined) majors and DART (Honours)/BEd (Intermediate/Senior) students until date specified in Registration guide.

Prerequisites: DART 2F94; DART 2F41, or DART 2P70 and one-half DART credit or permission of the instructor.

Note: materials fee required.

DART 3Y97

Sound Design for Theatre

Studies in sound design, its technology and application to theatre.

Lectures, seminar, lab, 5 hours per week; additional production time as required.

Restriction: open to DART (single or combined) majors and DART (Honours)/BEd (Intermediate/Senior) students until date specified in Registration guide.

Prerequisite: DART 2F41 or permission of the instructor.

Note: materials fee required.

DART 4F40

Arts Management

(also offered as STAC 4F40 and VISA 4F40)

Effective management of arts organizations to fulfill social and artistic mandates.

Seminar, 3 hours per week.

Restriction: open to DART (single and combined), STAC and VISA (single and combined) majors until date specified in Registration guide. Students must have a minimum of 10.0 overall credits.

Note: materials fee may be required.

DART 4F56

Advanced Studies in Theatre

Collaborative work in one or more theatre productions.

Lectures, seminar/lab, 5 hours per week; additional production time as required.

Restriction: approval to year 4 and permission of the instructor.

Prerequisite: DART 3F50, or DART 3P53 and 3P54.

Note: materials fee required.

DART 4F90

Critical Theory and Practice

Advanced study of critical theory, its roots, its application to theatre, dramatic literature and performance.

Lectures, seminar, 3 hours per week.

Restriction: open to DART (single or combined), DART (Honours)/BEd (Intermediate/Senior), STAC and IASC majors with a minimum of 14.0 overall credits, a minimum 70 percent major average, a minimum 60 percent non-major average and approval to year 4 (honours).

Note: materials fee may be required.

DART 4F94

Honours Thesis in Applied Critical Theory

Critical, historical or creative project in dramatic arts of mutual interest to the student, the supervising instructor and/or per Department. Production programming. Restriction: students must have a minimum 75 percent major average and permission of the Chair.

Prerequisite: DART 4F90 (may be taken concurrently).

Note: a written proposal must be approved by the Department before registration. Materials fee may be required. May include a major production assignment for Production and Design students.

DART 4P10

Voice and Speech II

Further studies in voice development focusing on texts and dialect. Topics include articulation, phonetics and advanced resonator work.

Workshop, lab, 5 hours per week.

Restriction: permission of the instructor.

Prerequisites: DART 3F50 and 3P10 or permission of instructor.

Note: enrolment limited.

DART 4P51

Shakespeare: Voice and Text

Embodied study of Shakespeare's verse and prose. Fundamentals of anatomy, breath and exploration of sound bridging to text for performance.

Workshop, lab.

Restriction: open to DART (single or combined) majors and permission of the Department.

Prerequisites: DART 1F93, 1P99 (1F99) and 3F50; one of DART 2F04, 2F50, 3F78; one of DART 2P92 (2F92), 2F94, DART 2P96 and 2P97, 3P10.

Note: enrolment limited. It is recommended that students register concurrently in DART 3P91. Materials fee may be required. Offered as a three-week intensive summer course at the Stratford Festival. Contact Department for further details.

DART 4P91

Internship in Drama in Education and Society

Internship in either an educational or community setting, applying Drama in Education and Society theories and practices.

Restriction: open to DART (single or combined) majors with a minimum 75 percent overall average, approval to year 4 (honours) and permission of the Department.

Prerequisite: one of DART 3F76, 3F77, 3F78.

Note: materials fee may be required.

Completion of this course will replace previous assigned grade and credit obtained in DART 4F91.

DART 4P92

Text and Performance of Bernard Shaw

Manners and mandate of the Shaw Festival, emphasizing the social imaginary of the period and acting techniques that convey Shavian ideas in the original and contemporary setting.

Lectures, workshop, studio, 5 hours per week.

Restriction: approval to year 4 (honours) and permission of the instructor.

Prerequisite: one of DART 3F50, 3F78, DART 3P53 and 3P54.

Note: transportation is a student responsibility. Materials fee may be required.

CO-OP COURSES

DART 0N01

Co-op Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to DART Co-op students.

DART 0N02

Co-op Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to DART Co-op students.

DART 0N03

Co-op Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to DART Co-op students.

DART 0N04

Co-op Work Placement IV

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to DART Co-op students.

DART 0N05

Co-op Work Placement V

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to DART Co-op students.

DART 0N90

Co-op Training and Development

Framework for the development of learning

objectives by students for individual work terms. Includes orientation to the co-op experience, goal setting, career planning, résumé preparation and interview skills preparation.

Lectures, presentations, site visits, 2 hours per week.

Restriction: open to DART Co-op students.

Earth Sciences

Chair

Martin J. Head

Professors

Uwe Brand, Richard J. Cheel, Frank Fueten, Martin J. Head, Francine McCarthy, John Menzies, Keith Tinkler

Associate Professors

Gregory C. Finn, Daniel McCarthy

Adjunct Professors

Stephen Cook, Andy Pank

Senior Lab Instructor

Howard Melville

Senior Lab Co-ordinator

Astride Silis

Director, Co-operative Programs

Cindy Dunne

Undergraduate Program Adviser

TBA (as of July 1, 2009)

General Information

Administrative Assistant

Diane Gadoury

905-688-5550, extension 3526

Mackenzie Chown D431

<http://www.brocku.ca/earthsciences>

The field of earth sciences is central in solving current problems such as waste disposal, pollution, groundwater management, volcano and earthquake hazards. It is also vital in the exploration and utilization of natural resources such as oil and gas, minerals and aggregates. A very important area of research in the earth sciences aims to determine how the planet has evolved from its origin 4.6 billion years ago to the present. Earth's rocks and sediment provide a long record of global change in response to a variety of stimuli. Many earth scientists are involved in the unravelling of this record of global change and in predicting future changes to the planet.

The Department of Earth Sciences offers programs dedicated to graduating high-quality geoscientists proceeding toward registration as a Professional Geoscientist. The Department offers other options for those interested in Earth Sciences, but not intending to become Professional Geoscientists.

The Department of Earth Sciences offers four-year programs of study leading to a BSc Honours in Earth Sciences, BSc Honours in Environmental Geoscience, a BSc with Major in Earth Sciences, a BSc with Major in Environmental Geoscience and a BSc Pass degree program. In addition, five-year Co-op programs leading to a BSc Honours degree in Earth Sciences or Environmental Geoscience are available.

The four-year BSc Honours and BSc with Major programs consist of a set of core courses in year 1, year 2 and part of year 3. During year 3, students choose from elective courses to specialize in a curriculum reflecting their personal interests. Students normally enter directly into the BSc Honours program and are required to maintain at least second-class honours standing. Students not meeting this requirement may continue in one of the BSc with Major programs.

The requirement for graduation with an Earth Sciences (Honours) degree is a minimum 70 percent major average and a minimum 60 percent non-major average.

The requirements for a BSc with Major and a BSc (pass) are a minimum 60 percent major average and a minimum 60 percent overall average.

The Department has teaching and research laboratories which include such facilities radiocarbon dating, recirculating sediment flume, dendrochronology laboratory, glacial micromorphology laboratory, palynology laboratory, vitrinite reflectance workstation, cathodoluminescence microscopic analysis, atomic absorption spectrometry, petrographic image analysis equipment, digitizer, water quality analysis equipment, fluorometric analysis and stable isotope preparation. These are supported by rock specimen preparation and drafting facilities, a cold room, core storage facilities and Departmental collections. Departmental as well as University computing facilities are available. SEM and ICPMS facilities are also available within the Faculty of Mathematics and Science. The Department shares the facilities of electronic, woodworking and glass blowing shops with other departments.

Co-op Program

The Earth Sciences and Environmental Geoscience Co-op programs combine academic and work terms over a five year period. Students spend two years in an academic setting, where they acquire the necessary background prior to taking the first work placement. Successful completion of courses in the core areas of earth sciences provides the necessary academic background for the work experience. In

addition to the current fees for courses in academic study terms, Earth Sciences and Environmental Geoscience Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue in the Co-op program is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Earth Sciences or Environmental Geoscience Co-op program, but may continue in the Earth Sciences and Environmental Geoscience non Co-op program. For further information, see the Co-op programs section of the Calendar and contact the Department of Earth Sciences.

The Earth Sciences and Environmental Geoscience Co-op program designation will be awarded to those students who have successfully completed a minimum of twelve months of Co-op work experience.

Association of Professional Geoscientists of Ontario

Graduates of any of the 20 credit single major programs offered through the Department of Earth Sciences may qualify to meet the knowledge requirements for membership in the Association of Professional Geoscientists of Ontario (APGO), allowing for the use of the designation P.Geo. (Professional Geoscientist). Students wishing to apply for membership with APGO should consult the APGO website to ensure that their choice of courses complies with APGO knowledge requirements.

Field Trips

Field trips form an integral component of training in the earth sciences and are offered in all years of study, linked to specific courses. Field trips may take place during the lab period or involve a time period beyond the lab, over a single day or weekend trips. To offset transportation costs the Department has instituted a Field Trip Levy for all courses with multiple field trips. In addition, on single day or weekend trips, students are expected to cover costs of accommodation and food. Field trip costs, where applicable, are in addition to the regular tuition fees associated with the course.

Program Notes

1. May be replaced with an elective credit. Students who do not complete 1.0 PHYS credit will not fulfill the requirements of the APGO.

2. The unspecified science elective credit is to be taken from APCO, BIOL, CHEM, MATH or PHYS (except ASTR 1P01, 1P02, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, SCIE 1P50 and 1P51).

3. ERSC 3P99 or 3Q99 or BIOL 3P71 is required for entry to year 4.

4. ERSC 3P99 or 3Q99 is normally required at the end of year 3.

5. Students wishing to transfer from the BSc with Major program into BSc Honours program are required to have a minimum 70 percent major average and a minimum 60 percent average in the remaining credits.

6. APCO 1P93, MATH 1P12 or MATH 2P98 recommended to fulfill the APGO Additional Foundation Science requirements.

7. ERSC 3P07 and 4P61 recommended to fulfill the APGO Additional Foundation Geoscience requirements.

8. ERSC 3P99 recommended to fulfill the APGO Compulsory Foundation Geoscience requirements.

9. ERSC 4P22 recommended to fulfill the APGO Additional Foundation Geoscience Requirements.

10. Students wishing to fulfill APGO Geology Group 2C Other Geoscience knowledge requirements are recommended to take a minimum of 2.5 credits from: ERSC 2P15, 3P03, 3P05, 3P07, 3P25, 3P26, 3P94, 4F91, 4P01, 4P10, 4P16, 4P28, 4P50 or 4P61. Students wishing to fulfill APGO Environmental Geoscience Group 2C Other Geoscience knowledge requirements are recommended to take a minimum of 2.5 credits from: ERSC 2P15, 3P03, 3P05, 3P25, 3P26, 3P35, 4F91, 4P01, 4P10, 4P16, 4P28, 4P31 or 4P50.

11. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Earth Sciences

Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03, 2P05, 2P16, 2P17, 2P21 and 2P22
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99 (see program note 10)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program note 1)
- one-half elective credit (see program note 6)

Year 3

- ERSC 3P01, 3P10, 3P21, 3P24, 3P25 and 3P31
- one-half ERSC credit numbered 2(alpha)90 or above
- the Humanities context credit or Social Sciences context credit not taken in year 1
- one-half elective credit

Year 4

- ERSC 3P99
- one and one-half credits from ERSC 3P26, 3P33, 3P85, 4P26, 4P28, 4P31, 4P61, 4P80 (see program note 10)
- two credits from ERSC 3P94, 3P96, 3P97, 4F91, 4P01, 4P10, 4P16, 4P22, 4P50 (see program notes 9 and 10)
- one elective credit (see program note 6)

Environmental Geoscience

Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03, 2P05, 2P09, 2P16, 2P17 and 2P21
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99 (see program note 10)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program note 1)
- one-half elective credit (see program note 6)

Year 3

- ERSC 3P01, 3P10, 3P24, 3P25, 3P31, and 3P36
- one-half ERSC credit numbered 2(alpha)90 or above (see program notes 7 and 10)
- the Humanities context credit or Social Sciences context credit not taken in year 1
- one-half elective credit

Year 4

- ERSC 3Q99 or 3P99 (see program notes 4 and 8)
- two credits from ERSC 3P26, 3P33, 3P85, 3P96, 3P97, 4F91, 4P26, 4P28, 4P31, 4P61, 4P80 (see program note 7 and 10)
- one and one-half credits from ERSC 3P94, 4P01, 4P10, 4P16, 4P22, 4P50 (see program note 10)
- one elective credit (see program notes 7 and 10)

Earth Sciences Co-op (Honours only)

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03, 2P05, 2P16, 2P17, 2P21 and 2P22 (see program note 10)
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program note 1)
- SCIE 0N90
- one-half elective credit (see program note 6)

Spring/Summer Sessions:

- ERSC 0N01

Year 3

Fall Term:

- ERSC 3P10, 3P21 and 3P24
- one elective credit (see program note 6)

Winter Term:

- ERSC 0N02

Year 4

Fall Term:

- ERSC 0N03

Winter Term:

- ERSC 3P01, 3P25 and 3P31
- one-half ERSC credit numbered 2(*alpha*)90 or above (see program note 10)
- one-half elective credit

Spring/Summer Sessions:

- ERSC 3P99

Year 5

- One and one-half credits from ERSC 3P26, 3P33, 3P85, 4P26, 4P28, 4P31, 4P80 (see program note 10)
- two credits from ERSC 3P94, 3P96, 3P97, 4F91, 4P01, 4P10, 4P16, 4P22 4P50 (see program notes 9 and 10)
- the Humanities context credit or Social Sciences context credit not taken in year 1

Environmental Geoscience Co-op (Honours only)

Year 1

- ERSC 1F01
- CHEM 1F92
- BIOL 1F90
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03, 2P05, 2P09, 2P16, 2P17 and 2P21
- one-half ERSC credit numbered 2(*alpha*)00 to 2(*alpha*)99 (see program note 10)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program note 1)
- SCIE 0N90
- one-half elective credit (see program note 6)

Spring/Summer Sessions

- ERSC 0N01

Year 3

Fall Term:

- ERSC 3P10, 3P24, 3P36
- one elective credit (see program note 6)

Winter Term:

- ERSC 0N02

Year 4

Fall Term:

- ERSC 0N03

Winter Term:

- ERSC 3P01, and 3P31
- one-half ERSC credit numbered 2(*alpha*)90 or above (see program notes 7 and 10)
- one-half elective credit (see program notes 6)

Year 5

- ERSC 3Q99 or 3P99 (see program notes 4 and 8)

- two credits from ERSC 3P26, 3P33, 3P85, 3P96, 3P97, 4F91, 4P26, 4P28, 4P31, 4P61, 4P80 (see program notes 7 and 10)
- one and one-half credits from ERSC 3P94, 4P01, 4P10, 4P16, 4P22, 4P50 (see program note 10)
- the Humanities context credit or Social Sciences context credit not taken in year 1

BSc with Major Program

This program differs from the Honours program in that honours standing is not required for entry into year 4 (see program note 5).

Earth Sciences

Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03, 2P05, 2P16, 2P17, 2P21 and 2P22
- one-half ERSC credit numbered 2(*alpha*)00 to 2(*alpha*)99 (see program note 10)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program note 1)
- one-half elective credit (see program note 6)

Year 3

- ERSC 3P01, 3P10, 3P21, 3P24, 3P25 and 3P31
- one-half ERSC credit numbered 2(*alpha*)90 or above
- the Humanities context credit or Social Sciences context credit not taken in year 1
- one-half elective credit

Year 4

- ERSC 3P99
- one and one-half credits from ERSC 3P26, 3P33, 3P85, 4P26, 4P28, 4P31, 4P61, 4P80 (see program note 10)
- two credits from ERSC 3P94, 3P96, 3P97, 4P01, 4P10, 4P16, 4P22, 4P50 (see program notes 9 and 10)
- one elective credit (see program note 11)

Environmental Geoscience

Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03, 2P05, 2P09, 2P16, 2P17 and 2P21
- one-half ERSC credit numbered 2(*alpha*)00 to 2(*alpha*)99 (see program note 10)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended; see program note 1)
- one-half elective credit (see program note 6)

Year 3

- ERSC 3P01, 3P10, 3P24, 3P25 3P31, and 3P36
- one-half ERSC credit numbered 2(*alpha*)90 or above (see program note 10)
- the Humanities context credit or Social Sciences context credit not taken in year 1
- one-half elective credit

Year 4

- ERSC 3Q99 or 3P99 (see program notes 4 and 8)
- two credits from ERSC 3P26, 3P33, 3P85, 3P96, 3P97, 4P26, 4P28, 4P31, 4P61, 4P80 (see program notes 7 and 10)
- one and one-half credits from ERSC 3P94, 4P01, 4P10, 4P16, 4P22, 4P26, 4P50 (see program note 10)
- one elective credit (see program note 11)

Pass Program

Satisfactory completion of the first three years of a twenty credit program entitles a student to apply for a Pass degree.

Combined Major Program

The Department of Earth Sciences, in co-operation with other departments, offers combined major programs in Earth Sciences with Biological Sciences, Chemistry, and Geography. For combinations other than those listed students should contact the Chairs/Directors of the respective departments/centres. It should be noted that not all departments/centres provide a combined major option.

Prospective students should have their programs approved by the two departments/centres concerned and are advised to follow one of the following patterns:

Earth Sciences and Biological Sciences

Honours

Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P03 and 2P16
- one ERSC credit numbered 2(alpha)00 to 2(alpha)99
- two credits from BIOL 2F01, 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- Two ERSC credits numbered 2(alpha)00 to 3(alpha)99
- one ERSC or BIOL credit (see program note 3)
- two BIOL credits numbered 2(alpha)90 to 3(alpha)99

Year 4

- One and one-half ERSC credits numbered 2(alpha)90 or above
- one of ERSC 4F91 and one ERSC credit numbered 3(alpha)90 or above, BIOL 4F90 and 4F91, BIOL 4F92 and one elective credit
- one and one-half BIOL credits numbered 2(alpha)90 or above

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Earth Sciences and Chemistry

Honours

Year 1

- ERSC 1F01
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- PHYS 1P21 or 1P91 (recommended)
- PHYS 1P22 or 1P92 (recommended)
- one Humanities context credit or one Social Sciences context credit

Year 2

- ERSC 2P21 and 2P22
- one ERSC credit numbered 2(alpha)00 to 2(alpha)99
- CHEM 2P12, 2P20, 2P32 and 2P42
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- ERSC 3P31
- one ERSC or CHEM credit (see program note 4)
- one and one-half ERSC credits numbered 2(alpha)00 to 3(alpha)99
- CHEM 2P21 and 3P40
- one credit from CHEM 3P20, 3P21, 3P30, 3P31, 3P41, 3P51, 3P53, 3P60

Year 4

- One ERSC credit numbered 2(alpha)90 or above
- one CHEM credit numbered 2(alpha)90 or above
- one of ERSC 4F91 and one ERSC credit numbered 3(alpha)90 or above, CHEM 4F90 and 4F91
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Earth Sciences and Geography

Honours

Year 1

- ERSC 1F01
- GEOG 1F91
- BIOL 1F90
- MATH 1P97
- one Social Sciences context credit (GEOG 1F90 strongly recommended)
- one-half elective credit

Year 2

- ERSC 2P05, 2P11, 2P17 and 2P21
- ERSC 2P04 or 2P09
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99
- GEOG 2P07 and 2P12
- one Humanities context credit

Year 3

- ERSC 2P16
- one of ERSC 3P35, 3Q99, GEOG 3P56
- one and one-half ERSC credits numbered 2(alpha)00 to 3(alpha)99
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from groups B and C (see Geography Department)
- one Science credit from APCO, BIOL, CHEM, MATH or PHYS (see program note

2)

Year 4

- Two ERSC credits numbered 3(alpha)90 or above
- two GEOG credit numbered 3(alpha)90 or above from group B
- one elective credit (see program notes 6 and 7)

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Minor in Earth Sciences

Students in other disciplines may obtain a Minor in Earth Sciences by successfully completing the following courses with a minimum 60 percent overall average:

- ERSC 1F01 or 1F90
- two ERSC credits numbered 2(alpha)00 or above
- one ERSC credit numbered 2(alpha)90 or above

Master of Science (MSc) Program

The department offers an MSc Program in Earth Sciences. See the Graduate Calendar or consult the Chair of the department for details.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not

been met.

**ERSC 1F01
Planet Earth**

Earth as a member in the solar system, minerals and rocks, plate tectonics, volcanoes, and earthquakes; the fossil record and the history of life; glacial geology, geomorphology, earth surface processes; paleoclimates and future climate change; environmental geoscience, hydrologic cycle, soil-groundwater contamination, hazardous waste disposal and alternatives.

Lectures, lab or local field trip, 5 hours per week.

Prerequisites: any two of biology, chemistry, earth sciences, mathematics or physics beyond grade 11 or equivalent.

Note: students may not register concurrently in ERSC 1F90 or 1P92.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 1F90, 1F95, 1P92 and 1P93.

**ERSC 1F02
Earth: The Dynamic Planet**

Introduction to major Earth Science theories and basic geologic principles. Geography and land-based culture of aboriginal peoples in Northern Ontario. Role of both short- and long-term climate changes in the evolution of ecosystems.

Restriction: permission of the instructor.

**ERSC 1F90
Geology and the Environment**

Intended primarily for non-science majors. Current hypotheses about the history of planet Earth; the significance of understanding modern environments in interpreting ancient settings and predicting future developments. Topics include earthquake prediction, hazardous waste disposal, floods, erosion, landslides, glaciations, global climate change and historical geology.

Lectures, 2 hours per week; lab, 2 hours per month.

Note: students may not register concurrently in ERSC 1F01 or 1P92. Secondary school sciences are not a prerequisite. Students achieving an exceptional level of performance in ERSC 1F90 may, at the discretion of the department, register in upper year courses.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 1F01, 1F95, 1P92 and 1P93.

**ERSC 1P92
Extreme Earth**

Extreme low frequency events and the geological record of their causes and effects, including earthquakes, volcanic eruptions, climatic change and impacts with extraterrestrial bodies.

Lectures, 3 hours per week.

Note: students may not register concurrently in ERSC 1F01 or 1F90. Secondary school

sciences are not a prerequisite.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 1F01, 1F90 and 1F95.

**ERSC 2P03
The History of the Earth**

Principles of paleontology, classical stratigraphy, sequence stratigraphy. The origin and evolution of life and the history of the Earth.

Lectures, lab, 5 hours per week.

Prerequisite: one of ERSC 1F01, 1F90, 1P92, 1P93.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 2P32.

**# ERSC 2P04
Introduction to Meteorology**

(also offered as GEOG 2P04)
Principles, structure, composition and processes of the atmosphere; its energy budget, moisture balance and motion. Weather forecasting in middle and low latitudes, forecasting techniques and special problems in applied meteorology.

Lectures, lab, 4 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: ERSC 1F01, GEOG 1F91 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 2P04.

*** ERSC 2P05
Earth Surface Processes**

(also offered as GEOG 2P05)
Earth surface processes and geomorphology within global environments. A dynamic and physically based account of processes and the Earth's surface, linking the fields of sedimentology, physical geography and fluid mechanics.

Lectures, lab, field work, 5 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: ERSC 1F01, GEOG 1F91 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 2P05.

**# ERSC 2P07
Foundations of Geomatics**

(also offered as GEOG 2P07 and IASC 2P07)
Introduction to spatial, metric, graphic and other concepts common to cartography, photogrammetry, remote sensing and

geographic information systems (GIS). Properties of maps and air photos and satellite imagery. Principles of map compilation and design. Practical experience in computer mapmaking, image interpretation and GIS analysis.

Lectures, lab, 4 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined), (Honours)/BED (Intermediate/Senior) and IASC majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01, GEOG 1F90, 1F91 or permission of the instructor.

*** ERSC 2P09
Principles of Biogeography**

(also offered as GEOG 2P09)
Autoecological aspects of soils and plants including the human impact at all scales. Patterns of soils and plants and their explanation. Spatial patterns of soils and vegetation communities and their explanation.

Lectures, lab, 5 hours per week.

Restriction: open to ERSC (single or combined), BIOL (single or combined), GEOG (single or combined) and GEOG (Honours)/Bed (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01, CHEM 1F92, GEOG 1F91 or permission of the instructor. Completion of this course will replace previous assigned grade and credit obtained in TREN 2P09.

**# ERSC 2P11
Research Methods in the Geosciences**

(also offered as GEOG 2P11)
Appraisal of scientific method. Problems of research design and the acquisition of information from the field by mapping, instrumental measurement, sampling and the use of published and unpublished data sources. Quantitative analysis of data, interpretation and the communication of results.

Lectures, lab, seminar, 5 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisites: ERSC 1F01, GEOG 1F91 or permission of the instructor.

*** ERSC 2P15
Introduction to Oceanography**

(also offered as GEOG 2P15)
Overview of the oceans, their origin, composition, circulation, geology and biota, from the coastal zone to the abyss. Importance of oceanography to humans, history of oceanography, overview of marine hazards and resources, ocean-atmosphere interactions and the global climate.

Lectures, lab, 5 hours per week.

Restriction: open to GEOG (single or

combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01, 1F90, BIOL 1F90, GEOG 1F91.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 2P02.

* ERSC 2P16

Sedimentology

(also offered as GEOG 2P16)

Basic clastic sedimentology (grain size, shape, porosity/permeability, fabric) including fundamentals of unidirectional and oscillatory water flows, sediment transport under such flows and resulting sedimentary structures. Clastic rock classification.

Lectures, lab, 5 hours per week.

Prerequisite: ERSC 1F01 or GEOG 1F91.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 2P10 and 2P31.

* ERSC 2P17

Earth Science Methods

(also offered as GEOG 2P17)

Introduction to the study and description, in the field and the lab, of surficial deposits, sedimentary, igneous and metamorphic rocks; structural analysis of geological maps and imagery.

Lectures, lab, field trips, 6 hours per week.

Prerequisite: ERSC 1F01 or GEOG 1F91.

Note: field trips taken during lab periods and weekends to areas of geological interest. Weekend field trips taken early in the semester. Completion of this course will replace previous assigned grade and credit obtained in ERSC 2P12.

ERSC 2P21

Introduction to Mineralogy and Mineral Associations

Crystal systems, symmetry operations, introduction to the 32 crystal classes; mineral composition and structure; physics and chemistry of minerals; mineral identification.

Lectures, lab, 6 hours per week.

Prerequisite: ERSC 1F01.

ERSC 2P22

Optical Mineralogy

Properties of light and its interaction with mineral grains: reflection, refraction, polarization, interference phenomena, extinction, colour and pleochroism. Refractometry; isotropic, uniaxial and biaxial optics; interpretation of interference figures. Transmitted light petrography in the identification of and familiarization with major rock-forming minerals in grain mounts and in thin section.

Lectures, lab, 6 hours per week.

Prerequisite: ERSC 2P21.

ERSC 3P01

Structural Geology

Measurement and effects of stress and strain. Genesis of brittle and ductile structures and their classification. Methods of structural analysis.

Lectures, lab, 5 hours per week.

Prerequisite: ERSC 2P17.

Completion of this course will replace previous grade in ERSC 2P01.

ERSC 3P03

Paleontology and Paleobiology

Biodiversity and ecosystems through geologic time; micro and macro evolution in paleobiology and evolutionary biology; large scale environmental change and the fossil record; functional morphology; phylogenetic and cladistic analysis of the fossil record.

Lectures, lab, 5 hours per week.

Prerequisite: one of ERSC 2P03, 2P15, BIOL 2P92.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 2P32.

ERSC 3P05

Geographic Information Systems

(also offered as GEOG 3P05 and IASC 3P05) Principles and use of computer-based systems for capturing, managing, manipulating, analysing and displaying data relating to the Earth's surface emphasizing raster applications. Practical work using Idrisi.

Lectures, lab, 5 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and IASC majors until date specified in Registration guide.

Prerequisite: ERSC 2P07 or permission of the instructor.

ERSC 3P07

Remote Sensing

(also offered as GEOG 3P07)

Theory and practice of remote sensing. Photographic, thermal, multispectral, radar and laser imaging of the Earth's surface from airborne and spaceborne platforms. Image interpretation, and image-analysis techniques.

Lectures, lab, 4 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: ERSC 2P07 or permission of the instructor.

ERSC 3P10

Stratigraphy and Carbonate Sedimentology

Fundamentals of lithostratigraphy and introduction to the North American Stratigraphic code; subsurface geology techniques, subsurface mapping and correlation; geology and geological history of southern Ontario; introduction to facies and facies models; sequence stratigraphy. Formation of carbonate and chemical minerals and sediments; environments of formation; classification of carbonate minerals, rocks and environments of deposition; limestone diagenesis; dolomitization; hand specimen, thin section and rock section/sequence descriptions.

Lectures, lab, 6 hours per week.

Prerequisite: ERSC 2P16.

Completion of this course will replace previous assigned grade and credit obtained in ERSC 3P71.

ERSC 3P13

Applied Climatology

(also offered as GEOG 3P13)

Studies in selected topics from the field of energy and moisture exchanges, air pollution, climatic change, climatic impact assessment and bioclimatology. Human impact on the climate along with applied microclimatological investigations and climatic data analysis.

Lectures, lab, 4 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: ERSC 2P04 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3P10.

ERSC 3P21

Igneous and Metamorphic Petrology

Igneous rocks: nomenclature and classification; magmatic processes. Application of one, two and three component phase diagrams to interpret the formation of igneous rocks. Metamorphic rocks: types, classification, mineral parageneses. Labs include the study of rocks in thin section, their mineralogy, textures, origin and classification.

Lectures, lab, 6 hours per week.

Prerequisites: ERSC 2P22 and CHEM 1F92.

* ERSC 3P24

Glacial Geomorphology/Geology

(also offered as GEOG 3P24)

Introduction to glaciology; glacial processes, glacial deposits; their genesis and sedimentology. Relationship of glacial processes to landforms and surface topography. Glacial systems and facies associations. Applied aspects of glacial geology, such as drift exploration.

Lectures, lab, field work, 5 hours per week.

Prerequisite: ERSC 2P05 or permission of the instructor.

* ERSC 3P25

Quaternary Geology

(also offered as GEOG 3P25)

Glaciations in the geological record, causes of glaciations, biotic responses to climatic changes, eustatic and isostatic sea level changes in response to glaciation, Quaternary stratigraphy and correlation of glacial and non-glacial events, application of Quaternary geology to economic and environmental problems, methods of paleoclimatic reconstruction.

Lectures, lab, 5 hours per week.

Prerequisite: ERSC 2P03, 2P16, 3P24 or permission of the instructor.

* ERSC 3P26

Glacial Soils and Sediments

(also offered as GEOG 3P26)

Applied aspects of glacial deposits. Geotechnical and pedochemical properties and structural attributes of glacial soils and sediments. Micromorphology, glacial soil discontinuity analyses. Introductory aspects of soil mechanics. Drift exploration. Landfill problems and issues related to glacial soils and sediments.

Lectures, lab, 5 hours per week.

Prerequisite: ERSC 3P24, 3P25 or permission of the instructor.

ERSC 3P31

Geochemistry

Formation of the elements; nucleosynthesis and cosmic abundances; classification of elements; crystal chemistry, bond energy, crystal defects and elemental partitioning/distribution; kinetic chemistry, elemental diffusion, nucleation and transformation; aqueous geochemistry, water-mineral interactions; Gibbs free energy and the formation/ weathering of igneous, metamorphic and sedimentary rocks; introduction to isotope geochemistry.

Lectures, lab, 6 hours per week.

Prerequisite: CHEM 1F92.

Note: students must supply their own safety equipment (safety glasses and lab coats).

* ERSC 3P33

Biodiversity

(also offered as GEOG 3P33)

Dispersal and migration, adaptation; speciation, extinction; ecological interaction, species invasion, plant and animal introductions, habitat fragmentation and application of biogeographical theory to conservation biology, and human impacts on fire regimes.

Lectures, lab, field work, 6 hours per week.

Prerequisite: one of ERSC 2P09, BIOL 2P05,

2Q04 or permission of the instructor.

* ERSC 3P35

Biomonitoring and Environmental Stress Assessment

(also offered as GEOG 3P35)

Use of biodiversity indicators, field methods and passive and active sensors to assess environmental quality. Collection and analysis of quantitative and qualitative data to investigate urban air and water pollution and forest health.

Lab, 3 hours per week.

Restriction: students must have a minimum of 10.0 overall credits and permission of the Department.

Prerequisite: one of ERSC 1F01, 2P09, BIOL 1F90 or permission of the instructor.

Note: three weekend field trips in September. Students are expected to pay their expenses.

ERSC 3P36

Fluvial Geomorphology

(also offered as GEOG 3P36)

River basins, channel morphology, flood frequency analysis, elementary flow mechanics and sediment transport; analysis of river records; long term changes in river systems. Introduction to HEC-RAS flow modelling.

Lectures, lab, 6 hours per week.

Prerequisite: ERSC 2P05 or permission of the instructor.

ERSC 3P83

Geography of Water Resources

(also offered as GEOG 3P83)

Physical and human factors affecting patterns of use and development of water resources. Emphasis on patterns of supply and demand, approaches to development and management of the resource, problems and alternative strategies.

Lectures, seminar, 4 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01, GEOG 1F90, 1F91 or permission of the instructor.

* ERSC 3P85

Ecology of a Changing Planet

(also offered as BIOL 3P85 and GEOG 3P85)

Impact of environmental change and human activity on ecosystems. Topics include climate change and global warming, habitat fragmentation, extinction, invasive species, conservation biology and the management of ecological integrity.

Lectures, lab, 5 hours per week.

Prerequisite: one of ERSC 2P09, BIOL 2P05, 2Q04.

ERSC 3P94

Advanced Igneous Petrology

Igneous petrogenesis, with emphasis on the physical chemistry of igneous processes; igneous rock complexes; studies of a number of petrologically important areas.

Lectures, lab, 6 hours per week.

Prerequisite: ERSC 3P21.

ERSC 3P95

Advanced Geographic Information Systems

(also offered as GEOG 3P95)

Further study of geographic information systems emphasizing vector and database applications and advanced analytical operations. Practical work using Idrisi and MapInfo Professional. Discussion of legal, ethical, management and other issues relating to GIS.

Lectures, lab, 5 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: ERSC 3P05.

ERSC 3P96

Special Topics in Earth Sciences I

Selected issues and various methods of inquiry related to faculty expertise.

Restriction: open to ERSC (single or combined) majors with a minimum 70 percent major average, a minimum of 10.0 overall credits and permission of the chair and supervising instructor.

ERSC 3P97

Special Topics in Earth Sciences II

Selected issues and various methods of inquiry related to faculty expertise.

Restriction: open to ERSC (single or combined) majors with a minimum 70 percent major average, a minimum of 10.0 overall credits and permission of the chair and supervising instructor.

ERSC 3P98

Ore Geology

Mode of occurrence, distribution, genesis, evaluation of and exploration for metallic and industrial mineral deposits. Includes ore petrology and geochemistry as well as theory of ore deposition in hydrothermal systems.

Lectures, lab, seminar, 6 hours per week.

Prerequisite: ERSC 3P21.

Note: ERSC 3P31 is recommended.

ERSC 3P99

Field Camp-Solid Earth

Two-week immersion course offered after final examinations in year 3 introducing students to collecting, recording and synthesizing field data, airphoto mapping, preparing geologic maps and reports. Field area, situated in northern Ontario, consists of Archaean,

Proterozoic and Paleozoic lithologies.
Restriction: open to students with a minimum of 13.0 overall credits and permission of the Department.

Note: registrants are expected to defray the cost of travel, accommodation and other expenses.

* ERSC 3Q99

Field School-Quaternary Geology
(also offered as GEOG 3Q99)

Field and laboratory methods for analysis of Quaternary landscapes based on field sites including fluvial, hillslope, coastal, glacial, and biosphere examples.

Restriction: permission of the Department.

Prerequisite: ERSC 2P17.

ERSC 4F91

Thesis

Research on geological problems involving field or laboratory study under faculty supervision.
Restriction: open to ERSC (Honours) (single or combined) majors with a minimum of 13.5 overall credits and a minimum major average of 75 percent.

Note: submission and oral examination of thesis are required.

ERSC 4P01

Advanced Structural Geology

Deformation mechanisms; the use of kinematic indicators; relationships between micro and macrostructures; emphasis on recent topics and methods in structural geology.

Lectures, seminar, lab, 5 hours per week.

Prerequisite: ERSC 3P01.

ERSC 4P07

Advanced Remote Sensing

(also offered as GEOG 4P07)

Theory and practice of *in situ*, airborne and spaceborne remote sensing. Emphasis on techniques used to study natural and human-made environments. Topics include data acquisition and preprocessing, image analysis and accuracy assessment. Image processing and analyses using commercially available image-analysis software.

Lectures, lab, 4 hours per week.

Restriction: open to ERSC (single or combined), GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: ERSC 3P07 or permission of the instructor.

ERSC 4P10

Advanced Clastic Sedimentology

Team study of the subsurface geology of a selected area of a Lake Erie gas field. Drill cores and geophysical logs are used to correlate lithostratigraphic units and to construct

structure contour maps and isopach maps of gas-bearing strata. Introduction to sedimentary facies models.

Lab, seminar, 4 hours per week.

Prerequisite: ERSC 3P10.

ERSC 4P16

Precambrian Geology

Archaean and Proterozoic evolution of the Earth examining: geology, tectonics, stratigraphy and history of the Precambrian; evolution of the Earth's crust; Precambrian time scale; evolution of life, oceans and atmosphere.

Lectures, seminar, 4 hours per week.

Prerequisite: ERSC 3P21.

ERSC 4P22

Advanced Metamorphic Petrology

Synthesis of metamorphic textures, compositional variations and field characteristics with emphasis on the temperature-pressure relations of the metamorphic rocks and the role of fluids in metamorphism.

Lectures, lab, 6 hours per week.

Prerequisite: ERSC 3P21.

* ERSC 4P26

Advanced Fluvial Geomorphology

(also offered as GEOG 4P26)

Steep, rough river systems emphasizing boulder bed and rock bed channels.

Seminar, lab, field work, 3 hours per week.

Prerequisite: ERSC 3P36 or permission of the instructor.

* ERSC 4P28

Advanced Glacial Sedimentology

(also offered as GEOG 4P28)

Sedimentology of present day glacial environments and of Quaternary sediments. Thermo-mechanical principles of glacier physics as applied to past and present glacier ice conditions. Glacial lithofacies associations. Glacio-tectonics and diagenesis. Principles of glacial erosion, entrainment and deposition.

Lectures, lab, local field trip, 5 hours per week.

Prerequisite: ERSC 3P24, 3P26 or permission of the instructor.

ERSC 4P31

Watershed Analysis

Hydrologic/watershed cycle; fundamentals and principles of watersheds-interaction of hydrosphere-lithosphere-biosphere; physical characteristics, effects and controls of stream sediments/contaminants/pollutants; aqueous geochemistry; introduction to watershed toxicology. Investigation of concerns with several watersheds. Major study and report of a local subwatershed.

Lectures, lab, local field work, 6 hours per week.

Prerequisite: one of ERSC 3P31, BIOL 3P71, 3P72, CHEM 2P42.

Note: students must supply their own safety equipment (safety glasses and lab coats).

ERSC 4P50

Petroleum Geology

Hydrocarbon exploration and exploitation, including physical and chemical properties of petroleum, methods of exploration, the subsurface environment, generation and migration of petroleum, reservoirs, traps and seals, sedimentary basins and petroleum systems with emphasis on Canada, nonconventional petroleum resources, and the economics and geopolitics of petroleum.

Lectures, lab, seminar, 4 hours per week.

Prerequisite: ERSC 3P10.

ERSC 4P61

Hydrology

Distribution and variation of run-off, recurrence of floods and droughts; fluvial processes and sediment transport; limnology; hydrologic and water management techniques; fundamentals of groundwater geology; surface and groundwater interaction.

Lectures, lab, local field trip, 5 hours per week.

Prerequisite: ERSC 2P16 or permission of the instructor.

CO-OP COURSES

ERSC 0N01

Work Placement I

First Co-op work placement (4 months) with an approved employer.

Restriction: open to ERSC Co-op students.

ERSC 0N02

Work Placement II

Second Co-op work placement (4 months) with an approved employer.

Restriction: open to ERSC Co-op students.

ERSC 0N03

Work Placement III

Third Co-op work placement (4 months) with an approved employer.

Restriction: open to ERSC Co-op students.

ERSC 0N04

Work Placement IV

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to ERSC Co-op students.

ERSC 0N05

Work Placement V

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to ERSC Co-op students.

Economics

Chair

Tomson Ogwang

Professors Emeriti

Maurice F. Perkins, Isidore J. Masse, Roberta E. Robb, Lewis A. Soroka

Professors

Robert W. Dimand, Mohammed H. Dore, Diane P. Dupont, Zisimos Koustas, Joseph Kushner, Felice F. Martinello, Tomson Ogwang, Steven J. Renzetti

Associate Professors

Jean-François Lamarche, David R. F. Love, William Veloce, Anthony J. Ward

Assistant Professors

Hasan Imam, René Kirkegaard, Lester Kwong

Director, Co-operative Programs

Cindy Dunne

General Information

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Economics is divided into two parts: Microeconomics and Macroeconomics. Microeconomics focuses on the operation of the market system under alternative scenarios about competition. It studies the economic decisions of individuals, households and firms and shows how those decisions interact to produce market outcomes. Microeconomics then examines the efficiency of the market outcomes and the extent to which they benefit society. Macroeconomics examines the functioning of the broader economy and some of its key sectors. Its main focus is on economic performance as measured by employment, unemployment, and the gap between aggregate economic activity and its potential. Through this analysis, macroeconomics identifies factors that help an economy achieve sustained increases in its standard of living. Macroeconomics also pays special attention to monetary phenomena, inflation, interest rates, and the exchange rate.

The analytical tools developed in micro and macro economics are applied to many different subject areas within economics such as

industrial organization, labour economics, international trade, economic development, taxation, and government expenditure. Other fields, such as money and banking and international payments, apply economic tools to the study of financial markets. The analyses yield insights and predictions that are used to develop public policy on a wide range of issues.

The Honours program provides students with an opportunity for a more intensive examination of issues in the field and prepares students for graduate studies in economics.

Co-op Program

The Economics Co-op program combines academic and work terms over a period of four and one-half academic years. Students spend two years in an academic setting studying the functional areas of economics prior to taking the first work placement. In addition to the current fees for courses in academic study terms, students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue in the Economics Co-op program is based on the student's major and non-major averages. A student with a minimum 70 percent major average and a minimum 60 percent non-major average may continue. A student with a major average lower than 70 percent will not be permitted to continue in the Economics Co-op program, but may continue in the non-co-op Economics stream. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-op Admissions Committee. For further information, see the Co-op Programs section of the Calendar, and contact the Department of Economics.

The Economics Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Insurance Studies

The Insurance Studies program involves courses offered through Brock and Mohawk College of Applied Arts and Technology. This four-year program combines courses and training in insurance settings at Mohawk College with an Honours degree in Economics at Brock. The program caters to individuals who wish to have a career in the insurance industry. The program allows students to gain both solid applied skills and training, and a strong theoretical knowledge about a variety of topics in Economics. Students who successfully complete the requirements for this program will be granted both an Honours degree from Brock,

and a diploma from Mohawk College. Gaining both a degree and this diploma would ordinarily involve attending both institutions consecutively for a total of six years, but the Brock and Mohawk program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Insurance Studies program are available from the Office of the Dean of Social Sciences.

Economics and Labour Studies-George Brown College

This program involves courses offered through Brock and George Brown College of Applied Arts and Technology. This four-year program combines courses and training in applied labour studies settings at George Brown College with a degree in Economics and Labour Studies at Brock. The program caters to individuals who wish to have a career in a wide variety of areas including unionized environments, occupational health and safety, politics, or human resources. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Students who successfully complete the requirements for this program will be granted both an Honours degree from Brock, and two certificates from George Brown College 1) a certificate in Contemporary Labour Perspectives from the George Brown School of Labour, and 2) a Post-Graduate Certificate in Human Resources Management. Gaining both a degree and these certificates would ordinarily involve attending college after gaining a university degree, but the Brock and George Brown program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and

further details concerning the George Brown Labour Studies program are available from the Office of the Dean of Social Sciences.

Please consult the Labour Studies entry for a listing of program requirements.

Economics and Labour Studies-Mohawk College

This program involves courses offered through Brock University and Mohawk College of Applied Arts and Technology. This four-year program combines training in a variety of applied labour studies settings at Mohawk College with an honours degree in Economics and Labour Studies at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in various aspects of labour studies. The program leads to career opportunities in a wide variety of areas including unionized environments, occupational health and safety, politics, and human resources. Obtaining both an honours degree and a college certificate would ordinarily involve at least five years of study, but this Brock-Mohawk program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Mohawk Labour Studies program are available from the Office of the Dean of Social Sciences.

Please consult the Labour Studies entry for a listing of program requirements.

Mathematics is an important analytical tool for economists. All students, but especially those intending to pursue graduate studies, are encouraged to take additional MATH courses. Students should consult the department regarding appropriate choices. (MATH 1P01 or 1P05 satisfies the MATH 1P97 prerequisite that is specified for some ECON courses.)

Computer literacy is required for some Economics courses. Students who are not computer literate should consider taking courses such as APCO 1P01 or 1P93 as elective credits.

Program Notes

1. ECON 1P91 and 1P92 may be taken concurrently or in either order.
2. WRIT 1P93 recommended.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.
In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit
- one elective credit (see program note 2)

Year 2

- ECON 2P21, 2P22, 2P30 and 2P90
- one ECON credit
- two elective credits

Year 3

- ECON 3P10, 3P21, 3P22, 3P90 and 3Q91
- one ECON credit numbered 2(alpha)90 or above
- one and one-half elective credits

Year 4

- ECON 4P13 and 4P14
- one and one-half ECON credits numbered 2(alpha)90 or above
- one ECON credit numbered 3(alpha)90 or above
- one and one-half elective credits

Economics Co-op (Honours only)

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- ECON 1P91 and 1P92
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit
- one elective credit (see program note 2)

Year 2

- ECON 0N90, 2P21, 2P22, 2P30 and 2P90
- one ECON credit
- two elective credits

Year 3

- Fall Term:
- ECON 3P21, 3P22, 3P90 and 3Q91
 - one-half elective credit

Winter Term:

- ECON 0N01

Spring/Summer Terms:

- One ECON credit numbered 2(alpha)90 or above
- one and one-half elective credits

Year 4

- Fall Term:
- ECON 0N02

Winter Term:

- ECON 4P13 and 4P14
- one-half ECON credit numbered 2(alpha)90 or above
- one-half ECON credit numbered 3(alpha)90 or above
- one-half elective credit

Spring/Summer Terms:

- ECON 0N03

Year 5

- Fall Term:
- ECON 3P10
 - One ECON credit numbered 2(alpha)90 or above
 - one-half ECON credit numbered 3(alpha)90 or above
 - one-half elective credit

Business Economics (Honours only)

Consult Business Economics entry for a listing of program requirements.

International Political Economy (Honours only)

Consult International Political Economy entry for a listing of program requirements.

Pass Program

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit
- one elective credit (see program note 2)

Year 2

- ECON 2P21, 2P22, 2P30 and 2P90
- one ECON credit
- two elective credits

Year 3

- ECON 3P10, 3P21 and 3P22
- one-half ECON credit
- two ECON credits numbered 2(alpha)90 or above
- one elective credit

Combined Major Program

Students may take a combined major in Economics and a second discipline. Students should consult the department about other possible programs. For requirements in other disciplines, the students should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Economics and Business (Honours only)

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- ACTG 1P91 and 2P12
- MGMT 1P93 and 1P96
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit or one Sciences context credit

Year 2

- ECON 2P21 or 2P23
- ECON 2P22 and 2P30
- ECON 2P90 or 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- one-half ECON credit
- the Humanities context credit or Sciences context credit not taken in Year 1

Year 3

- ECON 3P21, 3P22, 3P90 and 3Q91
- ACTG 2P40
- FNCE 3P93
- MKTG 3P24
- OPER 2P91
- one elective credit (see program note 2)

Year 4

- ECON 4P13 and 4P14
- ETHC 3P82
- MGMT 4P90
- one and one-half ECON credits numbered 2(alpha)90 or above
- one-half ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR or OPER credit numbered 3(alpha)90 or above
- one elective credit

Economics and Computer Science (Honours only)

Consult the Computer Science entry for a listing of program requirements.

Economics and Geography

Honours

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- GEOG 1F90
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit

Year 2

- ECON 2P21, 2P22 and 2P30
- GEOG 2P10
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P07, 2P13
- one-half ECON credit
- one elective credit (see program note 2)

Year 3

- ECON 2P90, 3P21, 3P22 and 3Q91
- GEOG 3P57
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group A or C (see Geography department)
- one elective credit

Year 4

- ECON 3P90, 4P13 and 4P14
- two GEOG credit numbered 3(alpha)90 or above from group A or C (see Geography department)
- one-half ECON credit numbered 2(alpha)90 or above
- one elective credit

Pass

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- GEOG 1F90
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit

Year 2

- ECON 2P21, 2P22 and 2P30
- GEOG 2P10
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P07, 2P13
- one-half ECON credit
- one elective credit (see program note 2)

Year 3

- ECON 2P90, 3P21 and 3P22
- GEOG 3P57
- one-half ECON credit numbered 2(alpha)90 or above
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group A or C (see Geography department)
- one elective credit

Economics and Labour Studies

Honours

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- LABR 1F90
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one POLI credit numbered 1(alpha)90 to 1(alpha)99 or SOCI 1F90
- one Humanities context credit or one Sciences context credit

Year 2

- ECON 2P21, 2P22, 2P30 and 2P90
- LABR 2P03, 2P06 and 2P15
- one-half LABR credit
- the Humanities context credit or Sciences context credit not taken in year 1

Year 3

- ECON 3P21, 3P22, 3P24 and 3Q91
- LABR 3P03 and 3P06
- one LABR credit numbered 2(alpha)90 or above
- one elective credit (see program note 2)

Year 4

- ECON 3P25, 3P90, 4P13 and 4P14
- one LABR credit
- one LABR credit numbered 3(alpha)90 or above
- one elective credit (see program note 2)

Pass

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- LABR 1F90
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one POLI credit numbered 1(alpha)90 to 1(alpha)99 or SOCI 1F90
- one Humanities context credit or one Sciences context credit

Year 2

- ECON 2P21, 2P22, 2P30 and 2P90
- LABR 2P03, 2P06 and 2P15
- one-half LABR credit
- the Humanities context credit or Sciences context credit not taken in year 1

Year 3

- ECON 3P21, 3P22, 3P24 and 3P25
- LABR 3P03 and 3P06
- one LABR credit numbered 2(alpha)90 or above
- one elective credit (see program note 2)

Economics and Mathematics (Honours only)

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- MATH 1P01 and 1P02 or MATH 1P05 and 1P06
- MATH 1P12 and 1P40
- one Humanities context credit
- one Sciences context credit

Year 2

- ECON 2P21 and 2P22
- one ECON credit
- MATH 2P03, 2P72, 2P81 and 2P82
- one-half MATH credit
- one-half elective credit (see program note 2)

Year 3

- ECON 3P21, 3P22 and 3P90
- one-half ECON credit numbered 2(alpha)90 or above
- MATH 2F40, 3P81 and 3P82
- one elective credit

Year 4

- ECON 4P13 and 4P14
- one-half ECON credit numbered 2(alpha)90 or above
- one-half ECON credit numbered 3(alpha)90 or above
- MATH 3P72, 3P73, 4P81 and 4P82
- one elective credit

Minor in Economics

Students in other disciplines can obtain a Minor in Economics within their degree program by completing the following courses with a minimum 60 percent overall average:

- ECON 1P91, 1P92 and 2P22
- ECON 2P21 or 2P23
- ECON 2P90 or 2P91
- two and one-half ECON credits

Brock/Colleges Articulation Agreement

Insurance Studies-Mohawk College

Year 1

- ECON 1P91 and 1P92 (see program note 1)
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Sciences context credit
- one non-business elective credit (see program note 2)

Year 2

- ECON 2P21, 2P22, 2P30, 2P90, 3P21 and 3P22
- One ECON credit numbered 2(alpha)00 or above
- one-half ECON credit numbered 2(alpha)90 or above
- one-half non-business elective credit

Year 3

- taken at Mohawk College

Year 4

- ECON 3P10, 3P90, 3Q91, 4P13 and 4P14
- one ECON credit numbered 2(alpha)90 or above
- one ECON credit numbered 3(alpha)90 or above
- one-half non-business elective credit

Economics and Labour Studies-George Brown College

Consult the Labour Studies entry for a listing of program requirements

Economics and Labour Studies-Mohawk College

Consult the Labour Studies entry for a listing of program requirements

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ECON 1P91

Principles of Microeconomics

Introduction to microeconomics. Topics include nature of economics, price system, demand, production and cost, markets and pricing, factor pricing and distribution of income.

Lectures, tutorial, 4 hours per week.

Note: may be taken concurrently with, before or after ECON 1P92.

ECON 1P92

Principles of Macroeconomics

Introduction to macroeconomics. Topics include nature of economics, determination and control of national income, money, banking and monetary policy, macroeconomic policy and balance of payments.

Lectures, tutorial, 4 hours per week.

Note: may be taken concurrently with, before or after ECON 1P91.

* ECON 2P10

United States Economic History (also offered as HIST 2P10)

United States economic development from the colonial era to the late 20th century. Topics include the effect of British mercantilist policy on the colonial economy, westward expansion, financial development under central and free banking, comparison of Northern and Southern agriculture, slavery and

emancipation, industrialization and industrial organization, transportation, impact of wars, the changing role of women and the interaction of government and market.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92 or permission of the instructor.

* ECON 2P11

European Economic History

(also offered as HIST 2P11)

The pre-industrial economy of the Middle Ages, the commercial expansion of Europe in the 16th century, the 17th century depression and the Industrial and Agricultural revolutions of the late 18th and 19th centuries. Technical progress, capital accumulation, growth of demand and new forms of economic organization as sources of economic change. The spread of industrialization between countries, the role of Europe in the world economy and the changing economic role of the state.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92 or permission of the instructor.

* ECON 2P15

The Economics of Unions

(also offered as LABR 2P15)

Labour unions in the marketplace. How unions affect, and are affected by, the labour and product markets. Topics include the effects of unions on wages, fringe benefits, turnover, inequality, productivity and the profitability of firms; union behaviour; who belongs to unions and why; collective bargaining; strikes; interest arbitration; public-sector unionism.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92.

ECON 2P17

Economic Development

The economic factors affecting the growth of developing countries. Topics include growth models, inequality and poverty, education, urbanization, agriculture, international trade and the historical emergence of today's underdeveloped nations.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92.

* ECON 2P19

Canadian Economic History

(also offered as HIST 2P19)

Growth and change in Canadian economy, from earliest European contact to the 20th century. Theories of growth, and of technical, institutional and demographic change. Topics include early fish, fur and timber trades, agriculture, the development of the West and the National Policy.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92 (or permission of the instructor).

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P09.

ECON 2P21

Intermediate Microeconomics I

Topics include the theory of the consumer and producer, willingness to pay, index numbers, the structure of a perfectly competitive industry and an introduction to imperfectly competitive markets. Applications are emphasized.

Lectures, tutorial, 4 hours per week.

Prerequisites: ECON 1P91; one of MATH 1P01, 1P05, 1P97.

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P23.

ECON 2P22

Intermediate Macroeconomics I

Main determinants of aggregate output and national income in an open economy. Topics include money and interest, effects of fiscal and monetary policies, and trade and capital flows under different exchange rate regimes. Extension of the macroeconomic model to include the price level. Study of aggregate demand and aggregate supply.

Lectures, tutorial, 4 hours per week.

Prerequisite: ECON 1P92.

ECON 2P23

Managerial Economics

Application of microeconomic concepts to business decision making. Topics include sales taxes and subsidies, consumer theory, production theory and various market structures such as discriminating monopoly, oligopoly and dominant firms.

Lectures, tutorial, 4 hours per week.

Restriction: not open to ECON (single or combined) majors.

Prerequisites: ECON 1P91; one of MATH 1P01, 1P05, 1P97.

Note: this course is primarily designed for students in the Business Administration program.

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P21.

* ECON 2P28

Economics of the Environment

(also offered as TREN 2P28)

Economic perspectives on environmental and natural resource issues. Topics may include valuing environment improvements, population growth issues, sustainable development, forestry and fishery management, ozone depletion and climate change.

Lectures, 3 hours per week

Restriction: open to TREN majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

ECON 2P30

Foundations of Economic Analysis

Using set theory to characterize economic problems. Multivariate marginal analysis and optimization (constrained and unconstrained) with applications in consumer and producer theory. Comparative statistics and introduction to dynamic analysis. Linear algebra with applications in econometrics and multiple equation macroeconomic models.

Lectures, tutorial, 4 hours per week.

Restriction: not open to MATH (single or combined) majors.

Prerequisites: ECON 1P91, 1P92 and MATH 1P98; one of MATH 1P01, 1P05, 1P97.

Students will not receive earned credit in ECON 2P30 if ECON 3P91 has been successfully completed.

* ECON 2P41

Economics of Tourism and Leisure Activities
(also offered as TREN 2P41)

Introduction to the economic analysis of the tourism industry. Determinants of the demand and supply for tourism and recreation; impact of tourism, recreation and leisure on regional and national economies. Topics may include ecotourism and the impact of government policies on tourism and recreation.

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide. Students must have a minimum of 4.0 credits. Not open to ECON (single or combined) majors, BBE, INPE, ECON minor, or ENEC students.

Note: major credit will not be granted to BBE, ECON, ENEC or INPE majors.

ECON 2P42

Economics of Professional Sport

Economics of professional sport industries. Topics include the cost and market structures of professional sport, the economics of stadiums and arenas, and the economic impact of professional sport teams on a local economy.

Lectures, 3 hours per week.

Prerequisite: ECON 1P91.

* ECON 2P54

Canadian Economic Issues

(also offered as LABR 2P54)

Canadian economic and business problems and policies. Topics may include stabilization, competition, taxation, foreign trade and exchange rate policies.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92.

* ECON 2P65

Health Economics

(also offered as CHSC 2P65)

Topics may include economic factors affecting the delivery of health care; principles of cost-benefit analysis of health-care services; economic analysis of the supply of health care

in Canada; government versus private health insurance; public versus private provision of health care; the economics of medical technology; the supply of physician services, pharmaceutical pricing and access.

Lectures, 3 hours per week.

Restriction: open to students with a minimum of 4.0 overall credits.

ECON 2P86

Women in the Economy

(also offered as CANA 2P86, LABR 2P86, SOCI 2P86 and WISE 2P86)

Women in the Canadian labour market. Topics include allocation of time between the household and the labour market, gender segregation in the work place, how earnings are determined, causes of occupational and earnings difference by gender, role of investment in education and discrimination, recent developments in the labour market and their impact on women and men, and selected policy issues.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 4.0 overall credits.

ECON 2P90

Introduction to Econometrics

Probability, random variables and density functions; correlation analysis; estimation and hypothesis testing in the classical linear regression model. Practical applications to different areas of economics and business.

Lectures, lab, 4.5 hours per week.

Restriction: not open to MATH (single or combined) majors.

Prerequisites: ECON 1P91 and 1P92; MATH 1F92 or 1P98.

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P91.

ECON 2P91

Business Econometrics with Applications

Multiple regression analysis with applications to forecasting and business decisions.

Lectures, lab, 4.5 hours per week.

Restriction: not open to ECON (single or combined), BBE and INPE majors.

Prerequisites: ECON 1P91, 1P92, MATH 1P97 and 1P98.

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P90.

ECON 2V60-2V69

Topics in Canadian Economic Policy

Study of a particular area or theme in Canadian economic policy.

ECON 3P01

History of Economic Thought I

Development of economic analysis to 1870,

including mercantilism, the classical school of political economy and Marx.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P02

History of Economic Thought II

The development of economic analysis since 1870, including marginalism, Keynes and the founders of modern economies.

Lectures, 3 hours per week.

Prerequisites: ECON 1P92; ECON 2P21 or 2P23.

Note: ECON 3P01 is recommended.

ECON 3P03

Money and Banking I

Overview of financial markets, understanding interest rates, portfolio choice, the capital asset pricing model, the behaviour, risk and term structure of interest rates. Economic analysis of banking structure, the banking firm and the management of financial institutions. The stock market, portfolio choice, the capital asset pricing model.

Lectures, 3 hours per week.

Prerequisites: ECON 2P21 or 2P23; ECON 2P22.

ECON 3P04

Money and Banking II

Central banking, the conduct and the transmission mechanism of monetary policy. The foreign currency market. The demand and supply of money. Money and inflation.

Lectures, 3 hours per week.

Prerequisites: ECON 2P21 or 2P23; ECON 2P22.

Note: ECON 3P03 is recommended.

ECON 3P06

Industrial Organization

Markets and the economic environment affecting strategic pricing and non-pricing behaviour of firms. Topics include the determinants of market structure, oligopoly pricing including game theory, predatory pricing, resale price maintenance, limit pricing, price fixing, advertising and research and development.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P10

Research Methods in Economics

Locating economic data and published research, planning the project and defining a hypothesis, reasoning and argument in economics, uses and abuses of theory and quantitative methods, selection of appropriate methods, presentation of the findings.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to ECON (single or combined), BBE and ENEC majors.

Prerequisites: ECON 2P21 or 2P23; ECON 2P22; ECON 2P90 or 2P91.

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P92.

ECON 3P13

Economics of the Multinational Enterprise

Economic theory of and public policy towards the multinational enterprise. Topics include theories of foreign direct investment, macroeconomic and microeconomic effects of direct investment in host countries, home country issues, industry studies, public policy towards multinationals.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P14

Public Sector Economics: Expenditure

The role and nature of the government sector; economics of public expenditure with reference to equity and efficiency considerations; techniques of public expenditure analysis; intergovernmental fiscal relations and economics of public debt.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P15

Public Sector Economics: Taxation

Introduction to the theory of taxation; economic consequences of federal and provincial taxes; theory of optimum taxation; analysis of Canadian tax system.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P18

Urban Economics

Theories of location, city formation and urban spatial structure. Topics include housing, transportation, poverty, financing of municipal governments and the economics of city size. Social welfare implications of problems and policies.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P19

Regional Economics

Theories of regional income determination; classical and other theories of regional growth; regional business cycles. Canadian regional disparities and nature of "Canadian Economic Union". Regional development policies in Canada, the UK and France.

Lectures, 3 hours per week.

Prerequisite: ECON 2P22.

ECON 3P21

Intermediate Microeconomics II

Topics may include models of market structure such as monopoly, duopoly, oligopoly and

monopolistic competition; demand and supply of factors of production under perfect and imperfect markets. Introduction to the general equilibrium model and welfare theory emphasizing applications.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P22

Intermediate Macroeconomics II

Topics include economic growth theory, money demand and supply, inflation, unemployment, and the effectiveness of monetary and fiscal policy in an open economy.

Lectures, 3 hours per week.

Prerequisite: ECON 2P22.

* ECON 3P24

Labour Economics

(also offered as LABR 3P24)

Economics of the labour market. Topics include the demand for labour, the supply of labour and investment in human capital. Policy applications.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

* ECON 3P25

Topics in Labour Economics

(also offered as LABR 3P25)

Topics vary from year to year and may include unemployment and the impact of unemployment insurance in the labour market, discrimination in the labour market, labour migration and the economic impact of immigration, economics of the family, the distribution of income and wealth in Canada, the economic impact of unions on wages and non-wage outcomes, issues in retirement and pensions.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P27

Economics of Natural Resources

Economic analysis of the extraction of non-renewable resources (such as oil or minerals) and the harvest of renewable resources (such as water, fish or forests). Development of socially optimal extraction or harvesting rules. Examination of recent government resource policies.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P28

Environmental Economics

Economic analysis of environmental degradation. The theory of externalities applied to environmental policy design for air, water, soil and toxic pollutants. International and distributional impacts.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P29

Energy Economics

Operation of the energy industry in North America and globally. Economics of exploration, development, production, marketing and transportation of energy. Demand for energy. Impact of government regulations and deregulation.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

ECON 3P60

Directed Studies in Economics

Topics not covered in the Department's regular course offerings.

Restriction: permission of the Department

Note: topics must be chosen in consultation with a faculty member willing to supervise the directed studies.

ECON 3P73

Game Theory

(also offered as MATH 3P73)

Representation of Games. Strategies and payoff functions. Static and dynamic games of complete or incomplete information. Equilibria concepts: Nash, Bayesian Nash, and Perfect Bayesian Nash equilibria. Convexity concepts, fixed points for correspondences and minimax. Core and Shapley value of a game. Refinements and Applications.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: ECON 3P91 or MATH 2P72.

ECON 3P90

Econometrics

The regression model in applied economics. The classical model and its extensions such as auto correlation and heteroscedasticity. Model specification and introduction to dynamic models. Theory and application of the regression model including a variety of practical examples.

Lectures, lab, 4 hours per week.

Prerequisites: ECON 2P21 or 2P23; ECON 2P22; one of ECON 2P90, 2P91, MATH 2P81 and 2P82; one of MATH 1P01, 1P05, 1P97, or permission of the instructor.

ECON 3P91

Mathematical Economics

Quantitative techniques used in economic theory and business problems. Topics may include sets and relations, matrix algebra, differential calculus, multivariate optimization without constraints and constrained optimization.

Lectures, tutorial, 4 hours per week.

Restriction: not open to MATH (single or combined) majors or general studies students. Prerequisites: ECON 2P21 or 2P23; ECON 2P22; one of MATH 1P01, 1P05, 1P97.

ECON 3P92

Forecasting in Economics

Forecasting methods in business and economics such as time series extrapolative methods, Box-Jenkins and econometric model-based approaches. Combined forecasting methods and evaluation of forecasts. Practical applications in business and economics.

Lectures, lab, 4 hours per week.

Prerequisite: one of ECON 2P90, 2P91, MATH 2P81.

ECON 3P93

International Trade

The pure theory of international trade and commercial policy. Topics include the gains from trade, specialization, determinants of trade flows and impacts of tariffs and quotas.

Lectures, 3 hours per week.

Prerequisite: ECON 3P21.

ECON 3P94

International Payments

Adjustment in the balance of payments and the role of international monetary institutions. International capital flows, interest rate arbitrage and exchange rates. International asset portfolio diversification.

Lectures, 3 hours per week.

Prerequisites: ECON 2P21 or 2P23; ECON 3P22.

ECON 3P95

Topics in Applied Econometrics

Topics may include time series econometrics, simultaneous equation model, unit root problem, trend modelling in economic time series, co-integration, Granger causality testing, vector auto regressions and dummy dependent variable models.

Lectures, lab, 4 hours per week.

Prerequisites: ECON 2P30 or 3P91; ECON 3P90.

ECON 3P97

Cost-Benefit Analysis

Analysis of welfare economics and its application to project evaluation. Emphasis on measurement of non-market activities such as benefits from environmental improvements and valuation of unemployed resources.

Lectures, 3 hours per week.

Prerequisite: ECON 3P21.

ECON 3Q90

Computational Economics

Introduction to modern computer-based numerical methods for the analysis of economic models. Discussion of problems not readily solved using standard analytics. Computational techniques, with actual applications providing experience as alternatives. Topics include numerical equation solving, function

evaluation, root finding, optimization or simulation of games, dynamic general equilibrium, models with uncertainty.
Lectures, 3 hours per week.
Prerequisites: ECON 3P21 and 3P91.

ECON 3Q91

Mathematical Methods in Economics

Topics may include propositional logic, theory of proofs, relations, properties of functions, constrained optimization, and techniques for integration and differential equations.

Lectures, tutorial, 4 hours per week.

Restriction: not open to MATH (single or combined) majors

Prerequisites: ECON 2P21 or 2P23; ECON 2P22 and 2P30.

ECON 3V60-3V69

Field Courses in Economics

Application of economic analysis to special topics.

ECON 4F90

Honours Essay

Program of reading and research under the supervision of a Faculty member.

Restriction: open to ECON (single or combined) majors with approval to year 4 (honours).

Note: for more information students should consult the ECON 4F90 co-ordinator.

ECON 4P13

Advanced Macroeconomics

Advanced macro theory supplemented with readings and discussions of recent literature.

Lectures, 3 hours per week.

Restriction: students must have approval to year 4 (honours).

Prerequisites: ECON 3P22 and 3P91 or permission of the instructor.

ECON 4P14

Advanced Microeconomics

Advanced micro theory. Topics may include theory of consumer behaviour, theory of the firm, imperfect competition, general equilibrium and welfare economics, behaviour under uncertainty, risk and asymmetric information.

Lectures, 3 hours per week.

Restriction: students must have approval to year 4 (honours).

Prerequisites: ECON 3P21 and 3P91 or permission of the instructor.

ECON 4P16

International Money and Finance

Monetary approach to the balance of payments and exchange rate determination under rational expectations and other expectations regimes. Economic shocks, exchange rate volatility and efficiency of exchange rate markets. Capital

flows and optimal currency areas.

Lectures, 3 hours per week.

Prerequisites: ECON 2P30 or 3P91; ECON 3P21 and 3P22.

ECON 4P17

Economic Growth

Classical and modern theories of economic growth and their empirical applications. Roles of population growth, education, human capital, investment and technological change on economic growth. Endogenous growth models and persistence of economic inequality across countries.

Lectures, 3 hours per week.

Prerequisites: ECON 2P30 or 3P91; ECON 3P21 and 3P22.

ECON 4P26

Monetary Economics

Advanced treatment of money demand including both theory and econometrics. Relationships between money and inflation, and money and economic growth. Rational expectations, efficient capital markets and monetary policy.

Lectures, 3 hours per week.

Prerequisites: ECON 2P30 or 3P91; ECON 3P21 and 3P22.

ECON 4P34

Economics of Information

Economic behaviour under different information structures. Topics may include principle-agent models, non-linear pricing, auctions, herd behaviour and cheap talk.

Lectures, 3 hours per week.

Prerequisites: ECON 3P21 and 3P91.

Completion of this course will replace previous assigned grade and credit obtained in ECON 3P98.

CO-OP COURSES

ECON 0N01

Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to ECON and BBE Co-op students.

ECON 0N02

Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to ECON and BBE Co-op students.

ECON 0N03

Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to ECON and BBE Co-op students.

ECON 0N04

Work Placement IV

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to ECON and BBE Co-op students.

ECON 0N05

Work Placement V

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to ECON and BBE Co-op students.

ECON 0N90

Co-op Training and Development

Framework for the development of learning objectives by students for individual work terms. Includes orientation to the co-op experience, goal setting, career planning, résumé preparation, and interview skills preparation.

Lectures, presentations, site visits, 2 hours per week.

Restriction: open to ECON and BBE Co-op students.

Education - Aboriginal Adult Education

Director
Michael Manley-Casimir

General Information

Administrative Co-ordinator
Janie Hodson

905-688-5550, extension 3971
Captain John DeCew 104
<http://www.nativeadult.ed.brocku.ca>

The Tecumseh Centre for Aboriginal Research and Education offers a Bachelor of Education in Aboriginal Adult Education as well as a Certificate in Adult Education.

Each program is designed to enhance the abilities of individuals working with, or aspiring to work with, adult populations in a variety of educational/training contexts.

The Bachelor of Education in Aboriginal Adult Education incorporates Aboriginal learning preferences and cultural diversity. This community based curriculum model relies on qualified local Aboriginal educators to facilitate the learner's educational journey. Courses are offered in a facilitated learning cohort model, face-to-face at locations across the province.

The Bachelor of Education in Aboriginal Adult Education program does not lead to an Ontario Certificate of Qualification. Aboriginal students interested in a teaching career in Ontario may be interested in the Native Teacher Education Programs, which lead to certification to teach elementary grades 1-6. These courses may be taken concurrently with the Aboriginal Adult Education program.

For further information contact the Administrative Co-ordinator.

Admissions

To meet candidates' needs, three application routes are available.

Program A:
For those who already hold an undergraduate degree and are pursuing a Bachelor of Education in Aboriginal Adult Education as a second degree.

Program B:
For those who do not hold an undergraduate degree but have completed undergraduate credits or hold a College of Applied Arts and Technology (CAAT) diploma, and are pursuing a degree or certificate in Aboriginal Adult Education.

Program C:
For those who hold neither an undergraduate degree nor a College of Applied Arts and Technology (CAAT) diploma and are pursuing a degree or certificate in Aboriginal Adult Education.

Program Notes

1. Undergraduate credits required in Program B or Program C may be taken on a Letter of Permission (LOP). Students electing this method should familiarize themselves with LOP regulations.
 2. Brock will award a maximum of ten advanced standing credits. Students seeking advanced standing through transfer credits should consult the Admissions section of this Calendar for further information.
 3. All candidates must take the five adult education credits through Brock.
 4. A College of Applied Arts and Technology diploma may give students a maximum of five undergraduate credits. In some cases, where programs at the College and Brock are completely compatible, up to seven credits may be awarded for a three year diploma. Transfer credit is not awarded for Certificate programs with the exception of a Certificate in the Teaching of Adults.
-

Program A

- ADED 4F84, 4F85, 4F86, 4F87 and 4F88

Programs B and C

- ADED 4F84, 4F85, 4F86, 4F87 and 4F88
 - one Humanities context credit (see program note 4)
 - one Science context credit (see program note 4)
 - one Social Science context credit (see program note 4)
 - two credits numbered 1(*alpha*)00 or above (see program note 4)
 - five credits numbered 2(*alpha*)00 or above (see program note 4)
-

Certificate in Aboriginal Adult Education

The Tecumseh Centre for Aboriginal Research and Education also offers a Certificate in Aboriginal Adult Education. This allows those persons who are working in related fields who are not interested in pursuing a degree an opportunity to complete the Certificate. The admission requirements are the same as for the degree programs.

The certificate is awarded upon completion of the following courses with a minimum 60 percent overall average:

- ADED 4F84, 4F85, 4F86, 4F87 and 4F88
-

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

- # Indicates a cross listed course
 - * Indicates primary offering of a cross listed course
-

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ADED 4F84

Aboriginal Adult Education: Beginning Our Journeys

Introduction to Aboriginal ways of learning and constructing knowledge and the relationships between culture/education and learning/healing.

Facilitated discussion, 6 hours per week.

ADED 4F85

Curriculum Theory and Design in Aboriginal Adult Education

Introduction to an Aboriginal approach to creating curriculum through a community-based developmental model. Topics include decolonization, relationship between learning and healing, learning outcome development and global Indigenous trends in Aboriginal education.

Facilitated discussion, 6 hours per week.

Restriction: open to students admitted to Aboriginal Adult Education.

Prerequisite: ADED 4F84 or permission of the Director.

ADED 4F86

Instructional Strategies: Ways of Teaching and Learning for Aboriginal Education

Issues in Aboriginal and mainstream adult education including learning styles, evaluation, storytelling, experiential learning and lesson planning.

Facilitated discussion, 6 hours per week.

Restriction: open to students admitted to Aboriginal Adult Education.

Prerequisite: ADED 4F85 or permission of the Director.

ADED 4F87

Aboriginal Leadership Issues: Healing, Learning and Leadership

Relationship between the colonial experience and contemporary Aboriginal leadership; contemporary policy-making processes and the wider role of the Aboriginal trainer/teacher in our communities.

Facilitated discussion, 6 hours per week.

Restriction: open to students admitted to Aboriginal Adult Education.

Prerequisite: ADED 4F86 or permission of the Director.

ADED 4F88

Aboriginal Teacher Development: Understanding our Journeys

Reflective theory and practice through a series of hands-on activities designed to encourage both professional renewal and awareness of self as Aboriginal teacher and learner.

Facilitated discussion, 6 hours per week.

Restriction: open to students admitted to Aboriginal Adult Education.

Prerequisite: ADED 4F87 or permission of the Director.

Education - Adult Education

Director
Sharon Abbey

Assistant Professor
Nancy Taber

Co-ordinator
Sandra Plavinskis

Academic Adviser
Felicity Harrison

General Information

Administrative Assistant
Laurie Jackson

905-688-5550, extension 5547
MC C421
<http://adult.ed.brocku.ca>

The Centre for Adult Education and Community Outreach offers a Bachelor of Education in Adult Education as well as a Certificate in Adult Education.

The program is designed to enhance the abilities of individuals working with, or aspiring to work with, adult populations in a variety of educational/training contexts.

The Bachelor of Education in Adult Education program does not lead to an Ontario Certificate of Qualification. Those interested in a teaching career in Ontario are advised to refer to the Ontario College of Teachers Act 1966 and (Regulation 18/97 Teachers Qualifications) with respect to teachable subjects, definitions, basic qualifications and regulations.

Courses are offered in a facilitated learning cohort model, face-to-face (locations across the province) and on-line. For further information contact the Administrative Assistant.

Admissions

To meet candidates' needs, three application routes are available.

Program A:
For those who already hold an undergraduate degree and are pursuing a Bachelor of

Education in Adult Education as a second degree.

Program B:
For those who do not hold an undergraduate degree but have completed undergraduate credits or hold a College of Applied Arts and Technology (CAAT) diploma, and are pursuing a degree or certificate in Adult Education.

Program C:
For those who hold neither an undergraduate degree nor a College of Applied Arts and Technology (CAAT) diploma and are pursuing a degree or certificate in Adult Education.

Program Notes

1. Undergraduate credits required in Program B or Program C may be taken on a Letter of Permission (LOP). Students electing this method should familiarize themselves with LOP regulations.

2. Brock will award a maximum of ten advanced standing credits. Students seeking advanced standing through transfer credits should consult the Admissions section of this Calendar for further information.

3. All candidates must take the five adult education credits through Brock.

4. A College of Applied Arts and Technology diploma may give students a maximum of five undergraduate credits. In some cases, where programs at the College and Brock are completely compatible, up to seven credits may be awarded for a three-year diploma. Transfer credit is not awarded for Certificate programs with the exception of a Certificate in the Teaching of Adults.

Program A

•ADED 4F31, 4F32, 4F33, 4F34 and 4F35

Programs B and C

•ADED 4F31, 4F32, 4F33, 4F34 AND 4F35
•one Humanities context credit (see program note 4)
•one Science context credit (see program note 4)
•one Social Science context credit (see program note 4)

•two credits numbered 1 (*alpha*)00 or above (see program note 4)
•five credits numbered 2 (*alpha*)00 or above (see program note 4)

Certificate in Adult Education

The Centre for Adult Education and Community Outreach also offers a Certificate in Adult Education. This allows those persons who are working in related fields who are not interested in pursuing a degree an opportunity to complete the Certificate. The admission requirements are the same as for the degree programs.

The certificate is awarded upon completion of the following courses with a minimum 60 percent overall average:

•ADED 4F32, 4F33, 4F34 and 4F35

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ADED 4F31

Foundations of Adult Education

Theories, practices and contexts of adult education.

Facilitated seminar 6 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in ADED 4F04.

ADED 4F32

Facilitation of Adult Learning Pedagogies

Application and evaluation of facilitation methods.

Facilitated seminar 6 hours per week.

Restriction: open to students admitted to Adult Education.
Prerequisite: ADED 4F31 (4F04).
Completion of this course will replace previous assigned grade and credit obtained in ADED 4F06.

ADED 4F33
Curriculum Design for Adult Learners
Investigation and evaluation of curriculum development models.
Facilitated seminar 6 hours per week.
Restriction: open to students admitted to Adult Education.
Prerequisite: ADED 4F31 (4F06).
Completion of this course will replace previous assigned grade and credit obtained in ADED 4F05.

ADED 4F34
Work and Learning in Organizations
Investigation of work and learning communities.
Facilitated seminar 6 hours per week.
Restriction: open to students admitted to Adult Education.
Prerequisite: ADED 4F33 (4F06).
Completion of this course will replace previous assigned grade and credit obtained in ADED 4F07.

ADED 4F35
Research and Critical Reflection in Adult Education
Examination of contemporary issues in adult education.
Facilitated seminar 6 hours per week.
Restriction: open to students admitted to Adult Education.
Prerequisite: ADED 4F34 (4F07).
Completion of this course will replace previous assigned grade and credit obtained in ADED 4F08.

ADED 4P85
Independent Study in Adult Education I
Guided reading, study or research on a topic not covered in regular course offerings.
Prerequisite: ADED 4F31 (4F04).

ADED 4P86
Independent Study in Adult Education II
Guided reading, study or research on a topic not covered in regular course offerings.
Prerequisite: ADED 4F31 (4F04).

ADED 4P87
Independent Study in Adult Education III
Guided reading, study or research on a topic not covered in regular course offerings.
Prerequisite: ADED 4F31 (4F04).

ADED 4P88
Independent Study in Adult Education IV
Guided reading, study or research on a topic not covered in regular course offerings.
Prerequisite: ADED 4F31 (4F04).

ADED 4P89
Independent Study in Adult Education V
Guided reading, study or research on a topic not covered in regular course offerings.
Prerequisite: ADED 4F31 (4F04).

ADED 4P91
Power and Pedagogy in Higher Education
Theoretical, pedagogical, curricular and practical issues of power dynamics and differentials in post-secondary and community outreach.
Facilitated seminar, 3 hours per week.
Prerequisite: ADED 4F31 (4F04) or permission of the instructor.

ADED 4P92
Gender in Adult Education
Theoretical exploration of social gendering processes and their pedagogical implications for adult education.
Lectures, seminar, 3 hours per week.
Prerequisite: ADED 4F31 (4F04) or permission of the instructor.

ADED 4P93
Adult Education in the Global Context
Examination of global social, economic and political contexts of adult education.
Facilitated seminar, 3 hours per week.
Prerequisite: ADED 4F31 (4F04) or permission of the instructor.

ADED 4V90-4V94
Selected Topics in Adult Education
Topics selected on the basis of Faculty expertise.
Facilitated seminar, 3 hours per week.
Prerequisite: ADED 4F31 (4F04).

ADED 4V90
2009-2010: Transformative Learning in Adult Education
Theoretical, practical and contextual frameworks.
Lectures/seminar, 3 hours per week.
Prerequisite: ADED 4F31 (4F04).

ADED 4V95-4V99
Practicum in Adult Education
Experiential academic and practical learning related to the field of Adult Education.
Prerequisite: ADED 4F31 (4F04).

Education- Bachelor of Education-Primary and Junior (Aboriginal)

Director
Michael Manley-Casimir

Adjunct Professor
Brian Hawker

Co-ordinator
Marg Raynor

General Information

Administrative Co-ordinator
Janie Hodson

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Captain John DeCew 104
<http://www.nativeadult.ed.brocku.ca>

The Tecumseh Centre for Aboriginal Research and Education offers a Bachelor of Education degree for students interested in teaching at the Primary/Junior level (grades K-6).

The program incorporates Aboriginal learning preferences and cultural diversity. This community-based curriculum model relies on qualified local Aboriginal educators to facilitate the learner's educational journey. Courses are offered in a facilitated learning cohort model, face-to-face at locations across the province.

Successful graduates will receive a Bachelor of Education degree. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

For further information contact the Administrative Co-ordinator.

Admissions

Candidates may be admitted with at least Grade 12 standing. Preference will be given to those with some post secondary experience.

Program Notes

1. Undergraduate credits required may be taken on a Letter of Permission (LOP). Students electing this method should familiarize themselves with LOP regulations.
2. Brock will award a maximum of ten advanced standing credits. Students seeking advanced standing through transfer credits should consult the Admissions section of this Calendar for further information.
3. All candidates must take the five Aboriginal adult education credits and the practicum through Brock.

Program

- One credit from ABST 2M90 - 2M95
- one credit from ABST 2M96 - 2M99
- ADED 4F84, 4F85, 4F86, 4F87 and 4F88
- EDUC 8L09, 8P08, 8P10, 8P11, 8P30, 8P33, 8P91, 8P94, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38, 8Y39, 8Y50, 8Y60, 8Y61 and 8Y63
- one Humanities context credit
- one Science context credit
- one Social Science context credit
- two elective credits numbered 1(*alpha*)00 or above
- two elective credits numbered 2(*alpha*)00 or above

Description of Courses

See relevant calendar entry for course descriptions.

Education - Continuing Teacher Education

Director
Tony DiPetta

General Information

Administrative Co-ordinator
Marie Harris

905-688-5550, extension 3342
Welch Hall 124

The Centre for Continuing Teacher Education offers additional qualification courses for teachers and a consecutive degree program with courses leading to a BEd for students who already hold a university degree at both the St. Catharines and Hamilton campus, with some selected courses offered in Mississauga and other Southern Ontario locations. This program does not lead to teacher certification in Ontario. Those interested in obtaining an OCQ should consult the Department of Teacher Education.

A BEd program is open to educators wishing to further their professional education beyond basic level in specialized areas. Although the program is designed specifically for candidates who already hold an undergraduate degree and certification to teach in Ontario, enquiries from those with an equivalent background are welcomed. Equivalence granted by the OCT will be accepted by the Centre for Continuing Teacher Education for entrance into any of our courses.

Under the condition noted in program requirements, candidates who hold an OTC or OCQ on admission to Continuing Teacher Education and who successfully complete specified courses and have appropriate prerequisites, will be recommended to the Ontario College of Teachers (OCT) for additional qualifications recommendation.

Admissions

Candidates for admission must be certified to teach in Ontario and must hold an undergraduate degree acceptable to Brock.

All candidates admitted to the BEd Program II should note:

- a) Recommendation to the Ontario College of Teachers may not be dependent on completing the total requirement for the BEd degree.
- b) EDUC courses numbered 9(alpha)00 and above may not be used for initial basic certification purposes.

Advanced Standing

Candidates for admission to Program II may be granted advanced standing in one credit at the time of initial application. Advanced standing is for Brock BEd credit only. Candidates are requested to contact the Ontario College of Teachers if they believe their academic background is equivalent to a Brock Additional Qualifications course. Advanced standing will be based on the relationship between work already completed and the content of courses required for the Brock degree. Advanced standing will not be granted on the basis of courses credited towards a completed degree or diploma unless such courses have been taken as electives beyond the minimum requirement for the degree or diploma. Students who completed Continuing Teacher Education courses prior to June 30, 1979, cannot count these courses toward the Program II BEd degree. For further information, contact the Director of the Centre for Continuing Teacher Education.

The University has been advised that the Qualifications Evaluation Council of Ontario (QECCO) normally accepts each course in the BEd (Program II) program as either a university credit or an Ontario College of Teachers course credit depending upon how the individual wishes the course applied. However, the University cannot guarantee the applicability of any specific course to QECCO insofar as salary evaluation is concerned. Students who have concerns in this regard should contact QECCO directly.

Where provincial regulations require documentation of qualifications (i.e., experience, specialized employment), it is the responsibility of the student to provide this documentation to the Director of the Centre for the office of the registrar. Documentation must be completed before any recommendation can be made to the Ontario College of Teachers.

Program Requirements

Candidates entering the program are required to complete a minimum of five credits numbered EDUC 9(alpha)00 or above, of which a minimum of three will be in a specialized area of study. Specialized areas of study may be identified in the course descriptions by sequential titling, e.g., EDUC 9F11 (Teaching French as a Second Language I); EDUC 9F12 (Teaching French as a Second Language II); EDUC 9F13 (Teaching French as a Second Language Specialist).

Students who already hold the Ontario Certificate of Qualifications and who successfully complete courses numbered 9(alpha)00 or above will be recommended to the Ontario College of Teachers for their Additional Qualifications.

Normally, candidates in this program will hold certification to teach in Ontario and an acceptable undergraduate degree. Candidates holding neither of the above qualifications may be admitted as special students. Special students may not receive OCT recognition for courses taken prior to holding the Ontario Certificate of Qualifications or Interim Ontario Certificate of Qualification. University regulations require that a copy of your valid certificate be on file and, for those students proceeding toward the BEd Program II degree, an official copy of a transcript showing the conferring of an appropriate university degree.

All Continuing Teacher Education courses have minimum and maximum enrolments. Courses with enrolments of fewer than 20 students may be cancelled. Candidates are encouraged to apply early. For further information and details of Program II requirements, candidates should consult the Director of the Centre for Continuing Teacher Education.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course
* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

EDUC 9F01

Adult Education

Needs and characteristics of adult learners and the social systems established to assist them. Preparing learning materials, planning, implementing and evaluating programs; consulting and communicating effectively with adult learners.

Lectures, seminar.

Prerequisite: Ontario Certificate of Qualification.

Note: This course may be available on-site or online.

EDUC 9F02

Associate Teaching

Counselling, supervision and evaluation of student teacher performance.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F03

Kindergarten

Evaluation of the child aged four to eight. Topics include characteristics of developmental stages, appropriate learning environments, curriculum and evaluation techniques; multicultural education, sex role stereotyping, early identification of special learning problems, child abuse and community school relations.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F07

Teaching Aboriginal Children

Focus on teaching strategies for Aboriginal children. Development of these strategies is based on the Ontario Curriculum but takes place in a culturally enriched contexts: Aboriginal arts, history, world view, spirituality, heritage for enhancement of skills and knowledge of teachers of Aboriginal education.

Lectures, workshops.

Note: pre-session requirement. Please contact Department. Additional field trips, studios and ceremonies as required. This course may be available on-site or online.

EDUC 9F09

Student Assessment and Evaluation

For learning and impact on both student and teacher practice in traditional and alternative settings.

Lectures, seminar.

Note: this course may be available on-site or online. Open to certified teachers.

EDUC 9F11

French as a Second Language I

Aims of the French program in Ontario schools, methodology; an introduction to linguistics, audiovisual devices, demonstration classes and practice teaching.

Lectures, seminar.

Restriction: registration open to certified teachers and qualified individuals until date specified in Registration guide. On and after that date, permission of Department.

Note: open to certified teachers who qualify by successfully completing an oral and written test. This course may be available on-site or online.

EDUC 9F12

French as a Second Language II

Teaching French as a second language in core and immersion programs at the primary, junior and intermediate levels including Ontario Ministry guidelines, language development, curriculum and unit development, language materials and visits to immersion classes.

Lectures, seminar.

Prerequisite: French as a Second Language I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F13

French as a Second Language Specialist

Advanced techniques for programs at the primary, junior and intermediate divisions in teaching French as a second language; leadership skills and styles, program organization, professional development and sequencing of programs.

Lectures, seminar.

Prerequisite: French as a Second Language II and a transcript showing at least five university level French credits, or equivalent course or experience acceptable to the Director and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97. Note: this course may be available on-site or online.

EDUC 9F14

Music (Vocal) Primary/Junior I

Concepts of music including singing, listening, reading, playing, creating, moving and dramatizing; Tonic Solfa method. Concentration will be at the primary level.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F15

Music (Vocal) Primary/Junior II

Teaching strategies and materials required for a well-balanced classroom music program. Planning a one year curriculum that provides for continuity in development of musical skills and understanding of concepts.

Lectures, seminar.

Prerequisite: Music (Vocal) Primary/Junior I plus one year of teaching experience.

Note: concentration will be at the junior level. This course may be available on-site or online.

EDUC 9F16

Music (Vocal) Primary/Junior Specialist

Organization and administration of music programs in a variety of school settings in the primary and junior levels; curriculum building, selection of materials and resources, choral repertoire and vocal techniques for performance. Examinations and comparison of contemporary approaches to music education.

Lectures, seminar.

Prerequisite: Music (Vocal) Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F17

Science and Technology Primary and Junior I

Introduction to teaching of science in the primary and junior divisions based on Ontario curriculum documents. Development of teaching models, programs, materials and their evaluation.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F18

Science and Technology Primary and Junior II

Planning programs in primary/junior science. Emphasis on implementing learning strategies; evaluating science component of a balanced and integrated program at the primary/junior level.

Lectures, seminar.

Prerequisite: Science Education Primary/ Junior I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F19

Science and Technology Primary and Junior Specialist

Leadership skills in organization, administration and supervision of a science education program for the primary/junior level.

Lectures, seminar.

Prerequisite: Science Education Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education

Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F21

Reading I

Introduction to language processes of reading and writing. Basic assessment procedures and improvement of reading skills.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F22

Reading II

Further study of components involved in the act of reading and techniques used in the diagnosis and remediation of reading problems.

Lectures, seminar.

Prerequisite: Reading I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F23

Reading Specialist

Advanced instruction in theory and practice of reading instruction; design and implementation of reading programs. *Lectures, seminar.*

Prerequisite: Reading II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F25

Design and Technology II

Laboratory-centred activity focusing on curriculum development, assessment and evaluation practices in technology programs. Topics include basic concepts of technology, developing skills, strategies and habits of mind, relating scientific and technological knowledge to each other and to the world outside of school. *Lectures, seminar.*

Prerequisite: Design and Technology I.

Note: this course may be available on-site or online.

EDUC 9F26

Design and Technology Specialist

Organization and curriculum development as they apply to technology programs and implementation of a technology program focusing on the Ontario curriculum, science and technology, grades 1 to 8. Emphasis on development of a classroom ready program that addresses the new Ontario curriculum and incorporating current assessment and evaluation principles. *Lectures, seminar.*

Prerequisite: Design and Technology II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F27

Librarianship I

Understanding the role of the teacher-librarian and collaborative process in developing teaching strategies for resource-based learning. Topics include utilizing and integrating basic library information technology, collection development, print and non-print resource evaluation, introduction to child and adolescent literature, systems, policies and procedures for organizing and distributing resources.

Lectures, seminar.

Note: open to certified teachers or permission of the Director. This course may be available on-site or online.

EDUC 9F28

Librarianship II

Practical applications of the role of the librarian and collaborative process. Interpreting and utilizing a variety of print and non-print media. Developing a wider knowledge of resources including print (nonfiction, reference, child and adolescent literature) and non-print (video, CD ROM, computer software, Internet resources). Further development in utilizing and integrating library information technology, collection development, systems, policies and procedures for organizing and distributing resources.

Lectures, seminar.

Prerequisite: Librarianship I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F29

Librarianship Specialist

Advanced practical applications of the role of the teacher-librarian and collaborative process in resource-based learning. Organizing and presenting workshops in Library and Information Technologies. Awareness of current developments in library organization, design and distribution systems. Integrating current technologies in the learning process.

Lectures, seminar.

Prerequisite: Librarianship II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F31

Environmental Science I

Development and implementation of courses of study and learning experiences, in

environmental science within community, neighbourhood and outdoor areas to which a school has access.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F32

Environmental Science II

Planning programs of environmental science (outdoor education) in a K to 12 continuum, emphasizing implementation at the three divisional levels.

Lectures, seminar.

Prerequisite: Environmental Science I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F33

Environmental Science Specialist

Organization, administration and supervision of environmental science programs; their design, development and implementation in elementary and secondary schools.

Lectures, seminar.

Prerequisite: Environmental Science II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F37

Primary Education I

Basic teaching strategies emphasizing communication (language arts and mathematics); a consideration of curriculum matters of concern to primary teachers in these subject areas; examination of provincial curriculum documents and theories of child development as they relate to communications.

Lectures, seminar.

Note: open to certified primary grade teachers. This course may be available on-site or online.

EDUC 9F38

Primary Education II

Basic teaching strategies emphasizing social and environmental sciences and the arts (drama, music, visual arts and physical and health education); a consideration of curriculum matters. Provincial curriculum documents and current principles of child development and learning as they relate to these subject areas.

Lectures, seminar.

Prerequisite: Primary Education I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F39

Primary Education Specialist

Leadership skills involved in professional

development of teachers; principles of curriculum construction; diagnosis and remediation of learning difficulties; examination of relevant case studies and pursuit of individual interests. *Lectures, seminar.*
Prerequisite: Primary Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.
Note: this course may be available on-site or online.

EDUC 9F41

Health Education and Physical Education Primary/Junior I

Activities and practices for teachers of the primary/junior grades, with attention to current theory and philosophy. Primary program and motor skills development in dance, gymnastics and games; health education and organizational procedures. Intramural activities, planned by students and faculty.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F42

Health Education and Physical Education Primary/Junior II

Fitness and activity sessions for children at the junior level including movement education in dance, gymnastics and games. Intramural activities.

Lectures, seminar.

Prerequisite: Health Education and Physical Education Primary/Junior I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F43

Health Education and Physical Education Primary/Junior Specialist

Program content and development; current problems, both personal and programmatic and development of leadership skills.

Lectures, seminar.

Prerequisite: Health Education and Physical Education Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F44

Health Education and Physical Education Intermediate/Senior I

Activities and philosophies related to current practices at the intermediate division; program development in dance, gymnastics and games; anatomy and athletic injuries; individual games and activities suitable for these age levels. Intramural activities.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F45

Health Education and Physical Education Intermediate/Senior II

Activities and philosophies related to the senior division; program development; teaching strategies in dance, gymnastics and games, appropriate health topics and organization of suitable programs for involvement of students at this level. Intramural activities

Lectures, seminar.

Prerequisite: Health Education and Physical Education Intermediate/Senior I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F46

Health Education and Physical Education Intermediate/Senior Specialist

Advanced instruction in organization and administration of physical and health education programs at the Intermediate and Senior levels. Curriculum development, teaching strategies, evaluation techniques, leadership and supervision.

Lectures, seminar.

Prerequisite: Health Education and Physical Education Intermediate and Senior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F51

Visual Arts I

Methodology and strategies for visual arts education stressing problem-solving, including creative work, theory, critical analysis, and visual awareness in context of a total school experience of the student.

Lectures, seminar.

Note: open to certified teachers. Familiarity with the Ministry document *The Arts*. This course may be available on-site or online.

EDUC 9F52

Visual Arts II

Emphasis on planning, delivering and assessing an inclusive arts program for a divisional level. Topics include workshops in media processes and design, and art appreciation, enhanced by gallery and museum visits.

Lectures, seminar.

Prerequisite: Visual Arts I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F53

Visual Arts Specialist

Curriculum design and implementation, stressing historical, multicultural, and current issues, leadership skills in managing a visual arts department, planning and conducting

advanced level workshops in visual arts and evaluating visual arts programs.

Lectures, seminar.

Prerequisite: Visual Arts II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F57

Junior Education I

Curriculum matters of concern to junior teachers; examination of basic teaching strategies in various subject areas and development of skills associated with a recognized system of interpersonal relationships.

Lectures, seminar.

Note: open to certified junior level teachers or those with credit in Junior Basic Curriculum and Instruction.

Note: this course may be available on-site or online.

EDUC 9F58

Junior Education II

Principles of child development and learning; a more detailed examination of curricula and a finer analysis of techniques of instruction and evaluation in one specific area of curriculum (communications, environmental studies or arts).

Lectures, seminar.

Prerequisite: Junior Education I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F59

Junior Education Specialist

Leadership skills involved in professional development of teachers, principles of curriculum construction and diagnosis and remediation of learning difficulties.

Lectures, seminar.

Prerequisite: Junior Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F61

Integration of Information and Computer Technology in Instruction I

Introduction to microcomputer and its educational application for classroom teachers; architectural, historical and pedagogical aspects of microcomputers; basic computer literacy; elementary program development; students select, review and field test educational computer courseware.

Note: this course may be available on-site or online. Open to certified teachers.

Completion of this course will replace previous assigned grade and credit obtained in 9Y01 - 9Y22.

EDUC 9F62

Integration of Information and Computer Technology in Instruction II

Further development of computer literacy skills; instruction and practice in evaluating software and designing instructional materials to enhance learning.

Lab.

Prerequisite: Integration of Information and Computer Technology in Instruction I plus one year of teaching experience.

Note: this course may be available on-site or online.

Completion of this course will replace previous assigned grade and credit obtained in 9Y01 - 9Y22.

EDUC 9F63

Integration of Information and Computer Technology in Instruction Specialist

Advanced techniques in evaluation, design and implementation of computer-aided learning materials. Instruction and practice in design and delivery of computer based professional development activities.

Lab.

Prerequisite: Integration of Information and Computer Technology in Instruction II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online. Major project involves creation and delivery of professional development materials. Completion of this course will replace previous assigned grade and credit obtained in EDUC 9Y01 - 9Y22.

EDUC 9F64

Guidance I

Counselling, consultation, instruction and program design.

Lectures, seminar.

Note: this course may be available on-site or online. Open to certified teachers.

EDUC 9F65

Guidance II

Development and design of program, career work life education and community and global perspectives while also enhancing skills and experience in all five strands.

Lectures, seminar.

Prerequisite: Guidance I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F66

Guidance Specialist

Implementation of program and leadership, and change in school.

Lectures, seminar.

Prerequisite: Guidance II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F67

English as a Second Language/English Language Development I

Introduction to the study of English as a Second Language /English Language Development (ESL/ELD). Role of the teacher in a multilingual, multicultural, multiracial teaching and learning environment. View of curriculum development and delivery from three perspectives: sociocultural, linguistic and academic.

Lectures, seminar.

Note: this course may be available on-site or online. Applicants must be able to communicate well in both written and spoken English.

EDUC 9F68

English as a Second Language/English Language Development II

Further development of methodology-teaching techniques, modification and delivery of instruction. Assessment, evaluation focusing on best practice.

Lectures, seminar.

Prerequisite: English as a Second Language/English Language Development I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F69

English as a Second Language/English Language Development Specialist

Design, implementation and evaluation of an effective ESL/ELD program. Development of a theoretical framework for the field of ESL/ELD and the role of advocacy and leadership surrounding ESL/ELD issues.

Lectures, seminar.

Prerequisite: English as a Second Language/English Language Development II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F71

Co-operative Education I

Analysis of a variety of co-operative education programs currently being used in schools of Ontario. Students will plan, implement, supervise and evaluate a co-operative education course at the classroom level with reference to provincial curriculum documents (OSIS: Ontario Schools Intermediate and Senior division programs).

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F72

Co-operative Education II

Development, implementation and evaluation of co-operative education programs at the department and school-wide level; social and vocational needs, values and programs; community and worksite reactions to the concept of co-operative education.

Lectures, seminar.

Prerequisite: Co-operative Education I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F73

Co-operative Education Specialist

Organizing and leading workshops in co-operative education; planning, coordinating and implementing co-operative education programs (including in-school and out-of-school components) at the school and board level

Lectures, seminar.

Prerequisite: Co-operative Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F74

Dramatic Arts I

Basic methodologies in teaching dramatic arts; preparation of an introductory course in dramatic arts and appropriate methods of student evaluation.

Lectures, seminar.

Note: open to all teachers.

EDUC 9F75

Dramatic Arts II

Advanced consideration of preparation and evaluation of courses in dramatic arts.

Lectures, seminar.

Prerequisite: Dramatic Arts I plus one year of teaching experience.

EDUC 9F76

Dramatic Arts Specialist

Organizing and teaching workshops in dramatic arts: planning, implementing and evaluating dramatic arts programs. *Lectures, seminar.*

Prerequisite: Dramatic Arts II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F77

Additional Basic Qualification Junior Division

Basic teaching strategies in all subject areas taught at the junior level. Current principles of child development and learning and curriculum at the junior level.

Lectures, seminar.

Prerequisite: an undergraduate degree and valid certification to teach in Ontario.

Note: this course may be available on-site or online. For teachers who are seeking qualification in an additional area of concentration in the junior division (Ont. 184/97, Section 30 and 31).

EDUC 9F78

Additional Basic Qualification Primary Division

Basic teaching strategies in all subject areas taught at the primary level. Current principles of child development and learning and curriculum at the primary level.

Lectures, seminar.

Prerequisite: an undergraduate degree and valid certification to teach in Ontario.

Note: this course may be available on-site or online. For teachers who are seeking qualification in an additional area of concentration in the primary division (Ont. 184/97, Section 28 and 29).

EDUC 9F79

Special Education: Communication - Speech and Language

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with speech and language difficulties. Program planning, developing an I.E.P and assessment, the Inclusive Classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F80

Special Education: Intellectual - Developmental Disabilities

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention

strategies for students with intellectual developmental disabilities. Program planning, developing an I.E.P and assessment, with the Inclusive Classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F81

Special Education: Intellectual Gifted

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with gifted abilities. Program planning, developing an I.E.P and assessment, the inclusive classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F82

Special Education: Multiple Exceptionalities

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with multiple exceptionalities. Program planning, developing an I.E.P and assessment, the inclusive classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F83

Special Education: Physical

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with physical disabilities. Program planning, developing an I.E.P and assessment, the Inclusive Classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F84

Mathematics Primary/Junior I

Developmental and learning theories as they apply to teaching strategies for mathematics, including learning processes, organization, motivation and concept development. Mathematics in other subject areas and in practical applications.

Lectures, seminar.

Note: open to certified teachers. This course may be available on-site or online.

EDUC 9F85

Mathematics Primary/Junior II

Various assessment strategies and an introduction to diagnostic techniques and remedial procedures. Technology related to teaching of mathematics at the primary and junior levels.

Lectures, seminar.

Prerequisite: Mathematics Primary/Junior I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F86

Mathematics Primary/Junior Specialist

Additional teaching strategies for review, development and implementation of changes in mathematics curriculum. Assessment strategies for student achievement, diagnostic techniques and programming for students with special needs.

Lectures, seminar.

Prerequisite: Mathematics Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F87

Intermediate Education I

Principles of adolescent development and learning; resource materials available to intermediate teachers; basic teaching strategies appropriate to the intermediate level. Various modes of communication, consultation and co-operative action in development of curricula.

Lectures, seminar.

Note: open to certified intermediate grade teachers. This course may be available on-site or online.

EDUC 9F88

Intermediate Education II

Theories of adolescent growth and development; curriculum design principles, teaching strategies and effective learning materials appropriate to the intermediate level; evaluation techniques and counselling procedures used at this level.

Lectures, seminar.

Prerequisite: Intermediate Education I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F89

Intermediate Education Specialist

Alternate patterns of teaching strategies, evaluation techniques and curricular concerns

examined in EDUC 9F87 and 9F88 focusing on adolescent exceptionality, career awareness and social adjustment. Instruction and practice in leadership skills that enhance effective communication with students, parents, colleagues and administrators.

Lectures, seminar.

Prerequisite: Intermediate Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97

Note: this course may be available on-site or online.

EDUC 9F90

Special Education: Special Education for Administrators

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Identification of students with exceptionalities; characteristics and definitions of behaviour, communication; intellectual, physical and multiple. Examining the school team, I.E.P. process, inclusive classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F91

Business Studies: Entrepreneurship Studies I
Familiarity with subject matter and relevant teaching materials for major concepts of the Ministry of Education's Entrepreneurship Curriculum Guide and awareness of available community resources. Practice in development and implementation of an entrepreneurial plan.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F92

Business Studies: Entrepreneurship Studies II
Practice in development and improvement of course outlines and curriculum support materials for a variety of target groups and purposes. Familiarity with participative student-centred teaching styles and development of methodologies for teaching relevant enterprise skills and of processes for acquiring motivation and commitment to these skills.

Lectures, seminar.

Prerequisite: Business Studies: Entrepreneurship Studies I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F93

Business Studies: Entrepreneurship Studies Specialist

Development of skills in constructing curriculum units, components and themes for study of entrepreneurship at the basic, general and advanced level of the secondary school. Practice in leadership roles in sourcing and adapting information and resource materials. Advanced study of entrepreneurship literature and research as well as role of entrepreneurship in the economy.

Lectures, seminar.

Prerequisite: Business Studies: Entrepreneurship Studies II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9F94

Special Education: Behaviour

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with behavioural disabilities. Program planning, developing an I.E.P and assessment, the inclusive classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F95

Special Education: Communication - Autism
Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with Autism. Program planning, developing an I.E.P and assessment will be discussed along with the inclusive classroom, differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F96

Special Education: Communication - Learning Disability

Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Characteristics and intervention strategies for students with a learning disability. Program planning, developing an I.E.P and assessment, the inclusive classroom,

differentiated instruction, information and assistive technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F97

Special Education I

Understanding the Education Act, Ministry curriculum expectations, regulations, policy and the Standards of Practice that support Special Education. Identification of students with exceptionalities; characteristics and definitions of: Behaviour; Communication (Autism, Deaf and Hard of Hearing, Language, Speech Impairments); Intellectual (Giftedness, Mild Intellectual Disability, Developmental Disability); Physical; Multiple. Knowing how to write, develop and amend an IEP, importance of information technology.

Lectures, seminar.

Note: this course may be available on-site or online.

EDUC 9F98

Special Education II

Continuing to address categories, definitions and identification of exceptionalities. Knowledge of the qualities and characteristics of ability and disability, formal, informal data, information gathering, tools, tests and assessment strategies to interpret, inform and develop the IEP collaboratively. Examination of board special education programs, plans and services. Learning from and working with students, parents and community partners. Application of information technology.

Lectures, seminar.

Prerequisite: Special Education Part I plus one year of teaching experience.

Note: this course may be available on-site or online.

EDUC 9F99

Special Education Specialist III

Advanced focus on the categories, definitions and identification of exceptionalities. Analyzing current Ontario legislation, regulations and policies concerning issues related to exceptional students. Leadership in assessing modifying, designing, implementing and communicating programs and services based on current special education research and exemplary practice. Developing effective collaborative approaches and mediation skills with school, parent/guardian and community. Promoting information technology.

Lectures, seminar.

Prerequisite: Special Education Part II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: this course may be available on-site or online.

EDUC 9G00

Communications Technology: Grades 9 and 10

Overview of communication industry; technical knowledge and skills required to teach such subjects as television and video production, art, broadcasting, photography, print and graphic production and computer communication. *Lectures, seminar.*

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G10

Communication Technology: Grades 11 and 12

Overview of communication industry; technical knowledge and skills required to teach such component areas as television and video production, art, broadcasting, photography, print and graphic production and computer communication at the senior division.

Lectures, seminar.

Prerequisite: Communications Technology: Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8R03.

EDUC 9G15

Technological Design: Grades 9 and 10

Variety of design processes applicable in solving any technological challenge or problem. Builds on and forms a continuum with grades 1 to 8

science and technology and integrated technologies program.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G16

Technological Design: Grades 11 and 12

In-depth study of a variety of design processes applicable in solving any technological challenge or problem. Builds on and forms a continuum with grades 1 to 8 science and technology and grade 9 integrated technologies program. *Lectures, seminar.*

Prerequisite: Technological Design Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G20

Construction Technology: Grades 9 and 10

Overview of construction industry; technical knowledge and skills and teaching strategies for construction services, architectural design and drafting, electricity, environmental control, plumbing, sheet metal, trowel trades and woodworking.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of

Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G30

Construction Technology: Grades 11 and 12

Overview of construction industry; technical knowledge, and skills and teaching strategies for construction services, architectural design and drafting, electricity, environmental control, plumbing, sheet metal, trowel trades and woodworking at the senior division. *Lectures, seminar.*

Prerequisite: Construction Technology: Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8R09.

EDUC 9G40

Manufacturing Technology: Grades 9 and 10

Overview of manufacturing process. Strategies for teaching specific subject areas such as control systems, engineering drafting and design, foundry and moulding practice, industrial electronics, metal fabrication and precision machining.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may

substitute for some wage-earning experience.
Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G45

Manufacturing Technology: Grades 11 and 12

Overview of manufacturing process. Strategies for teaching specific subject areas such as control systems, engineering drafting and design, foundry and moulding practice, industrial electronics, metal fabrication and precision machining at the advanced level.

Lectures, seminar.

Prerequisite: Manufacturing Technology Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Must possess a certificate of qualification in the Manufacturing field (eg. Precision Machinist). Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G60

Transportation Technology: Grades 9 and 10
Overview of field of transportation. Strategies for teaching motive power and its application to mobile vehicles, including automobiles, aircraft, farm equipment and small engines.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G65

Transportation Technology: Grades 11 and 12
Overview of field of transportation. Strategies for teaching motive power and its application to mobile vehicles, including automobiles, aircraft, farm equipment and small engines at the senior level.

Lectures, seminar.

Prerequisite: Transportation Technology Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Must possess a certificate of qualification (eg. Motor Vehicle Mechanic or Truck and Coach). Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G66

Health Care: Grades 9 and 10

Issues and responsibilities related to growth, development and disease prevention across the lifespan.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G67

Health Care: Grades 11 and 12

Advanced issues and responsibilities related to growth, development and disease prevention across the lifespan.

Lectures, seminar, laboratory practical skills assessment.

Prerequisite: Health Care Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and

Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience.

Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G68

Science and Technology: Grade 7 and 8

Materials and matter, applied design, structures and mechanisms and implementation of elementary science and technology programs. Curriculum theory as it applies to the Grade 7 and 8 program. Topics include design and construction, using real materials demonstrating scientific and technical principles, processes and cross-curricular integration.

Restriction: open to students admitted to the Technological Education Program.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G85

Hospitality Services: Grades 9 and 10

Teaching strategies and skills required for planning, operation and development of services in the study of tourism and guiding, travel, accommodation, food preparation and serving, plus other hospitality issues.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological

Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G86

Hospitality Services: Grades 11 and 12

In-depth study of teaching strategies and skills required for planning, operation and development of services in the study of tourism and guiding, travel, accommodation, food preparation and serving, plus other hospitality issues at the senior level.

Lectures, seminar.

Prerequisite: Hospitality Services Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G87

Personal Services: Grades 9 and 10

Teaching strategies and skills required for planning, operation and development of services in the study of health care, personal grooming, child care and geriatric care.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G88

Personal Services: Grades 11 and 12

In-depth study of teaching strategies and skills required for planning, operation and development of services in the study of health care, personal grooming, child care and geriatric care at the senior level.

Lectures, seminar.

Prerequisite: Personal Services Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education, must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience.

Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G90

Honours Specialist: Technological Education

Designed to prepare teachers of technological education for specialist and supervisory roles in the secondary school. Administration, organization, human relations, measurement, computer awareness and communication skills. *Lectures, seminar.*

Restriction: permission of the Director is required.

Prerequisites: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating qualification in at least three subjects listed in Schedule B of the Ontario College of Teachers Act Reg. 184.97 including at least one at the advanced level or, four subjects listed in Schedule B at the basic level and an entry indicating Specialist qualification in one subject in Schedule D listed in sub-clause 34cIII; a Secondary School Honours Graduation Diploma or has successfully completed the equivalent of one year's full-time study in a program in respect of which a SSHD or its equivalent is required for admission and evidence of at least two years of successful teaching experience, including at least one year in Technological Education.

Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G91

Computer Technology: Grades 9 and 10

Use of computers and digital technologies in education emphasizing application to

classroom practice and integration. Historical, architectural and pedagogical aspects of computer technologies.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Participants review and test a variety of courseware and applications. Open to certified and trade qualified teachers.

EDUC 9G92

Computer Technology: Grades 11 and 12

Advanced development of computer and digital technology literacy skills with expanded instruction in application of technology in the classroom. Practice in evaluating courseware and the design and delivery of computer based instruction and professional development activities.

Lectures, seminar.

Prerequisite: Computer Technology Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G93

Green Industries: Grades 9 and 10

Historical, pedagogical and literacy skills associated with green technologies and industries.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological

Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G94

Green Industries: Grades 11 and 12

Societal issues and scientific concerns associated with the practices and operation of green industries.

Lectures, seminar.

Prerequisite: Green Industries Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience.

Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G95

Hairstyling and Esthetics: Grades 9 and 10

Techniques and pedagogical practices associated with hairstyling, focusing on meeting industry standards, using appropriate materials and equipment and identifying trends and career opportunities in the hairstyling/esthetics industry; examination of scientific and physical processes used in beauty services as well as environmental, health and safety laws.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience.

Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G96

Hairstyling and Esthetics: Grades 11 and 12

Advanced techniques and training associated with establishing a solid foundation for pursuing a career in cosmetology, focusing on increasing the practical skills and knowledge needed in the beauty industry as well as the entrepreneurial skills required to own and operate a salon.

Lectures, seminar.

Prerequisite: Hairstyling and Esthetics Grades 9 and 10 and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience.

Note: This course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G97

Use and Knowledge of Assistive Technologies

Advances in technology that impact learning for those with exceptionalities or learning disabilities, exploring the effect of technology use on learning and self perception. Assistive technologies available in schools, and developing knowledge, skill and practices for working with assistive technologies in the classroom.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9G98

Teaching and Learning through e-Learning
Pedagogical practices associated using learning management systems, learning platform technologies and online resources.

Lectures, seminar.

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the Intermediate and Senior divisions in Technological Education. Technological Education applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate Intermediate and Senior divisions in Technological Education must provide evidence of at least five years of wage-earning experience related to the subject for which qualification is sought. In some instances pertinent education may substitute for some wage-earning experience. Note: this course may be available on-site or online. Open to certified and trade qualified teachers.

EDUC 9M00-9M09

Additional Basic Qualification Intermediate Division

Current principles of student development and learning, curriculum development and implementation, and teaching strategies.

Lectures, seminar, practicum.

Prerequisite: an acceptable undergraduate degree that includes two credits in the teachable subject area and a valid Certificate of Qualification endorsed with primary, junior or senior additional basic qualification.

Note: Drama, which does not require credits in the teachable subject area is an exception to the prerequisite rule. The course requirement for Physical Education may also be waived if equivalent background in physical education is determined by the Director, Centre for Continuing Teacher Education.

Note: these courses may be available on-site or online.

(9M00) English

(9M01) Mathematics

(9M02) Science - General

(9M03) History

(9M04) Geography

(9M07) Health and Physical Education

(9M09) Dramatic Arts

EDUC 9M20-9M29

Additional Basic Qualification Senior Division (First or Second Teachable)

Current principles of student development and learning, curriculum development and implementation, and teaching strategies.

Lectures, seminar, practicum.

Prerequisites: an acceptable undergraduate degree with a major of at least five credits in the teachable subject area (as a first teachable) or an acceptable undergraduate degree with a major of at least three credits in the teachable subject area (as a second teachable); valid certification endorsed at the primary, junior or intermediate level.

Note: courses may be available on-site or online. Candidates may be asked to successfully complete three weeks of practice teaching as assigned by the Faculty of Education during a scheduled block in winter term or spring session.

(9M20) English
(9M21) Mathematics
(9M22) Science - General
(9M23) History
(9M24) Geography
(9M26) Social Sciences - General
(9M27) Health and Physical Education
(9M29) Dramatic Arts

EDUC 9M50-9M59

Honours Specialist

Advanced knowledge of curriculum guidelines from K to 12 and increased ability to develop remedial, regular and advanced programs and to evaluate student achievement. Increased knowledge of child and adolescent development related to the subject will also be included.

Lectures, seminar.

Restriction: permission of the Director.

Prerequisites: an Ontario Certificate of Qualification or Interim Certificate of Qualification, an acceptable honours degree with at least a second class or equivalent standing in nine credits in the subject or subject areas and at least two years of successful teaching with at least one year in the subject area of qualification being sought.

Note: courses may be available on-site or online.

(9M50) English
(9M51) Mathematic
(9M52) Science
(9M53) History
(9M54) Geography
(9M57) Health and Physical Education
(9M59) Dramatic Arts

EDUC 9P99

Program Measurement and Evaluation

Measurement and evaluation of program and student achievement focusing on methods of data collecting, formulating measurement instruments and techniques for analysing and communicating results. Content for the course

will be based on the Ministry of Education and Training's Ontario Assessment Instrument Pool (OAIIP).

Lectures, seminar.

Note: open to teachers and administrators. This course does not carry Ontario College of Teachers credit. This course may be available on-site or online.

EDUC 9V91-9V95

Special Topics in Education

Topics vary from year to year on basis of specific areas of instructional expertise and candidate interest.

Lectures, seminar.

Note: These courses may be available on-site or online.

Education - Graduate and Undergraduate Studies in Education

Chair

Vera Woloshyn

Professor Emeriti

Ralph Connelly, Merle Richards, Alan R. Wheeler, Sybil E. Wilson

Professors

Terrance Boak, Susan Drake, James Heap, Michael Kompf, Michael Manley-Casimir, Coral Mitchell, John Novak, Patrick O'Neill, Lissa Paul, Vera Woloshyn

Associate Professors

Sandra Bosacki, Renée Kuchapski, Michelle McGinn, Dolana Mogadime, Jonathan Neufeld, Susan Tilley, Mary-Louise Vanderlee, Rosemary Young

Assistant Professors

Denise Armstrong, Ann-Marie DiBiase, Joe Engemann, Debra Harwood, Xiaobin Li, Michael O'Sullivan, Denise Paquette-Frenette, Nancy Taber

Adjunct Faculty

Katharine Janzen, Jeanne Kentel, Michael Owen

Undergraduate Co-ordinator

Ann-Marie DiBiase

Admissions Counsellor

Phyllis Stanley

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905-688-5550, extension 3340

Welch Hall 127

Administrative Assistant

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905-688-5550, extension 3082

Administrative Director, Concurrent Programs

Rosamund Batty

905-688-5550, extension 3116

Welch Hall 8C

Manager, International Initiatives

Sylvester Chen

905-688-5550, extension 3155

Welch Hall 5

<http://ed.brocku.ca/graduate/international/>

The goals of the Department of Graduate and Undergraduate Studies in Education are threefold:

To deliver a high-quality academic program that encompasses the major aspects of four areas of specialization.

To engage in research activities that enhances understanding of Social and Cultural Contexts of Education, Teaching, Learning and Development, Administration and Leadership in Education and Educational Inquiry.

To provide service to the educational community on how best to conceptualize, plan, deliver, and evaluate education

As the only department in the Faculty of Education that is not essentially devoted to professional training, and without a vested interest in the status quo, the department serves to facilitate the autonomous pursuit of knowledge and operates within a system of collegial review.

Undergraduate Courses

Undergraduate courses for those interested in obtaining a greater understanding of the field of education are offered for both full- and part-time students. Undergraduate degree credit may be given for EDUC 1F95, 2F01, 2P65, 3F00, 3F01, 3F90, 3P40, 3P45, 3P50, 3P52, 3P60, 3P62, 3P70, 3P90, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P24, 4P25, 4P26, 4P34, 4P35, 4P36, 4P70, 4P80 and ESCI 1P10.

Concurrent Programs

Undergraduate courses in education serve as electives and/or are mandated as part of the various concurrent program offerings leading to an Ontario Teaching Certificate. Refer to the following programs for additional information:

Education - Concurrent BA (Honours)/BEd (Intermediate/Senior)

Education - Concurrent BA CHYS (Honours)/BEd (Primary/Junior)

Education - Concurrent BA Integrated Studies (Honours)/BEd (Junior/Intermediate)

Education - Concurrent BPhEd (Honours)/BEd (Intermediate/Senior)

Education - Concurrent BPhEd (Honours)/BEd (Junior/Intermediate)

Education - Concurrent BSc (Honours)/BEd

(Intermediate/Senior)

Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate)

Graduate Program

The Faculty of Education offers a Master of Education degree in Social and Cultural Contexts of Education, Teaching, Learning and Development, Administration and Leadership in Education and Educational Inquiry. For further information and course listings, refer to the Graduate Calendar or contact the Graduate Studies Office.

Master of Education Program

The Master of Education (MEd) degree program at Brock is designed to improve the professional competence of practitioners and researchers. The program allows for considerable flexibility as to course selection. Candidates work with their assigned program consultant to choose courses in one of four options: Social and Cultural Contexts of Education, Teaching, Learning and Development, Administration and Leadership in Education, and Educational Inquiry. Students are expected to work with their program consultant to develop their focus areas related to particular interests. Students will select a research advisor who will work with them on all aspects of their exit research requirements. All exit projects or theses must have an explicit connection to education. Additional information on this program is available from the Graduate Calendar.

Doctor of Philosophy in Educational Studies

The PhD in Educational Studies is offered jointly by Brock University, Lakehead University, the University of Western Ontario and the University of Windsor. The designation of "home university" is applied to the home university of the doctoral candidate's dissertation supervisor. The student has the right to take courses and seminars or to use the academic facilities of any of the participating universities in accordance with the approved plan.

The regulations governing the preparation of theses and conduct of examinations will be those of the supervisor's home university.

The degree requirements, regulations and procedures of the joint PhD program have been approved by the appropriate governing body of each institution. Where there is a conflict in regulations and procedures: In academic matters, the regulations of the institution offering the course will prevail; In non-academic matters, the regulations of the institution at which the student is registered will prevail.

Additional information on this program is available from the Graduate Calendar.

Program Note

1. Students taking ADED 4F35 complete two and one-half credits.

Certificate in Educational Studies

The Department of Graduate and Undergraduate Studies offers a program leading to a Certificate in Educational Studies. This program also enables prospective applicants to the M.Ed. degree, who have attained at least a 65 percent average in any three-year undergraduate degree, to establish their eligibility for graduate admission by completing the Certificate as the equivalent of the fourth year of undergraduate study required by university regulations. Students interested in pursuing the Administration and Leadership stream at the masters level are encouraged to take EDUC 3P70 and 4P70. Students interested in pursuing the Curriculum stream at the masters level are encouraged to take EDUC 3F00. Students interested in pursuing the Teaching and Learning stream at the masters level are encouraged to take EDUC 4P05 and 4P35.

See "Certificate Requirements" under Academic Regulations.

The Certificate in Educational Studies is awarded upon completion of the following courses with a minimum 70 per cent overall average:

- ADED 4F35 or EDUC 4P03
- EDUC 3F01 and 4P80
- three credits from EDUC 3F00, 3F90, 3P40, 3P45, 3P50, 3P52, 3P60, 3P62, 3P90, 4P01, 4P02, 4P04, 4P05, 4P06, 4P24, 4P25, 4P26, 4P35, 4P36, 4P70 (see program note 1)

Under exceptional circumstances, the Department may require the substitution of other relevant courses for those usually required.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course
* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

EDUC 1F90

Introduction to Education Studies

Major issues and problems in the organization, staffing and planning of schools and school services today.

Lectures, seminar, 6 hours per week.

Restriction: open to students admitted to the Professional Masters Preparation Certificate Program.

Note: course offered in winter term only.

EDUC 1F95

Introduction to Foundations of Education

Historical, philosophical, sociological and psychological dimensions of formal schooling within a Canadian context.

Lectures, seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEd (Primary/Junior), BA (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate), BA(Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior) and BPhEd (Honours)/BEd (Intermediate/Senior) students with a minimum of 3.0 overall credits until date specified in the Registration guide.

* EDUC 2F01

Cognition and Learning

(also offered as CHYS 2F01)

Psychological approaches to cognitive, behavioural, and social development. Cognitive processes in learning and instruction (assisting students to use appropriate cognitive processes on specific academic tasks). Cognitive theories applied to school subject areas including reading, writing, mathematics, science.

Lectures, seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEd (Primary/Junior) students with a minimum of 6.0 overall credits, until date specified in the Registration guide.

Prerequisite: CHYS 1F90 or PSYC 1F90.

EDUC 2P65

Diversity Issues in Schooling

Issues and directions in a diverse society and their impact in the classroom; includes classism, racism, multiculturalism, ablist and sexism; roles and strategies leading to the goal of equity.

Lectures, seminar, 3 hours per week.

Restriction: open to BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and BPhEd (Honours)/BEd (Junior/Intermediate) students until date specified in the Registration guide. Students must have a minimum of 3.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 3P65 and 8P02.

EDUC 3F00

Curriculum Theory and Design

Theoretical conceptions of curriculum and how these connect with philosophies of education and practices of curriculum design and curriculum change.

Lectures, seminar, 3 hours per week.

Restriction: open to BA CHYS (Pass)/BEd (Primary/Junior), BA CHYS (Honours)/BEd (Primary/Junior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and BPhEd (Honours)/BEd (Junior/Intermediate) students with a minimum of 6.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 2F00.

EDUC 3F01

The Process of Teaching

Introduction to the study of teacher behaviour through a systematic exploration of the assumptions, educational purposes, teaching strategies, curricular designs and materials and the social and psychological theory underlying selected models of teaching. The alternative patterns by which teachers may model their behaviour. Students will be required to familiarize themselves with current educational concepts and recent literature in the field.

Lectures, seminar, 3 hours per week.

Restriction: open to BA CHYS (Pass)/BEd (Primary/Junior) and BA CHYS (Honours)/BEd (Primary/Junior) students with a minimum of 6.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 3F90**Independent Study**

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: permission of the Chair.

Note: consultation is done prior to enrolment. A written agreement is signed by the Chair and filed with the department.

EDUC 3P40**Family, Schools and Literacy**

Research and issues in family literacy and parental involvement in education. Strategies for intervention and home-school collaboration in literacy development.

Lectures, seminar, 3 hours per week.

Restriction: open to BA CHYS (Pass)/BEd (Primary/Junior) and BA (Honours)/BEd (Primary/Junior) students with a minimum of 6.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 3P45**Reading and Literacy Development**

Overview of the reading process, acquisition of reading and writing skills and evidence-based instruction. Focus on cognitive, linguistic and sociocultural influences.

Lectures, seminar, 3 hours per week.

Restriction: open to BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and BPhEd (Honours)/BEd (Junior/Intermediate) with a minimum of 6.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

Note: optional practicum may be available.

*** EDUC 3P50****Early Childhood Education I**

(also offered as CHYS 3P50)

Early childhood education programs for children from birth to age eight. Topics include the historical and societal influences on early childhood education, program models derived from theories of learning and child development and research on the effectiveness of these programs.

Lectures, seminar, 3 hours per week.

Restriction: open to BA CHYS (Honours)/BEd (Primary/Junior) and BA (Pass)/BEd (Primary/Junior) students with a minimum of 9.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

Prerequisite: CHYS 2F10 or permission of the instructor.

EDUC 3P52**Early Childhood Education II**

(also offered as CHYS 3P52)

Methods in early childhood education programs for children from birth to age eight. Topics include curricula, instructional strategies and evaluative techniques.

Lectures, seminar/lab, 4 hours per week.

Restriction: permission of the instructor.

Prerequisite: EDUC 3P50.

Note: students have a school placement and require Identification Cards issued by Ontario Education Services Corporation (OESC) based on a satisfactory police record check. Application packages for OESC are available at <http://www.oesc-cseo.org>.

EDUC 3P60**Gender Issues in Teaching and Learning**

(also offered as WISE 3P60)

Theoretical and practical aspects of feminist engagement with pedagogic processes within/against both traditional and alternative educational contexts; examination of levels and components of education from a variety of feminist theoretical perspectives; pedagogic and political consequences of ideology critique and alternative practices.

Lectures, seminar 3 hours per week.

Restriction: open to WISE (single or combined) majors and minors until date specified in the Registration guide. Students must have a minimum of 6.0 overall credits.

Prerequisites: WISE 1F90 and 2P00 or permission of the instructor.

*** EDUC 3P62****Video Games in the Classroom**

(also offered as IASC 3P62)

Research and current issues related to the integration of video games and other interactive new media technologies into the elementary and secondary school instructional program.

Lectures, seminar, 3 hours per week.

Restriction: Students must have a minimum 6.0 overall credits.

EDUC 3P70**Schooling, Education and Society**

Contemporary issues facing public education. Consideration of how the organization, administration and functioning of schools shape relationships between education and society.

Lectures, seminar, 3 hours per week.

Restriction: open to Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 3P90**Directed Studies**

Guided reading on a topic chosen in consultation with a faculty member willing to

supervise the student.

Restriction: permission of the Chair

Note: consultation is done prior to enrolment.

A written agreement is signed by the Chair and filed with the department.

EDUC 4P01**Higher Level Thinking in the Sciences and Mathematics**

Children's mathematical and scientific thinking in relation to developments in cognitive science, together with instructional strategies, materials and evaluation procedures. Topics include developmental perspectives on children's scientific reasoning, general vs. domain specific problem solving, the role of individual differences and learning styles, cognitive process evaluation methods, computer applications in mathematics and science instruction.

Seminar, 3 hours per week.

Restriction: open to BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students with a minimum of 12.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 4P02**Classroom Assessment - Junior/Intermediate**

Assessment literacy of prospective teachers. Classroom assessment relating to assessment of learning (summative), assessment for learning (formative and diagnostic) and assessment as learning (self-assessment). Assessment tasks and tools to enhance student learning and assessment situated in curriculum design.

Seminar, 3 hours per week.

Restriction: open to BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and Certificate in Educational Studies students until date specified in the Registration guide. Concurrent Education students must have a minimum of 16.0 overall credits and all other students must have a minimum of 11.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8P04.

EDUC 4P03**Reflection on Practice**

Classroom interactions in relation to beliefs, values and pedagogy. Students will plan classroom actions, act, observe their plans in action and reflect on the results before using the experience to replan. The reflective process will include both group interactions and individual responses.

Seminar, 3 hours per week.

EDUC 4P04**Observation and Evaluation for the Early Years**

Assessment literacy for prospective elementary

school teachers. Classroom assessment relating to assessment of learning (summative), assessment for learning (formative and diagnostic) and assessment as learning (self-assessment). Assessment tasks and tools to enhance student learning and assessment situated in curriculum design.

Seminar, 3 hours per week.

Restriction: open to BA CHYS (Pass)/BEd (Primary/Junior), BA (Honours)/BEd (Primary/Junior) and Certificate in Educational Studies students until date specified in the Registration guide. Students must have a minimum of 12.0 overall credits.

EDUC 4P05

Critical Literacies in the Humanities and Social Sciences

Learning to engage the interpretative possibilities of texts. Critical strategies including semiotic, feminist and reader-response used in the analysis of picture books, poetry, traditional texts and contemporary fiction

Seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEd (Primary/Junior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and Certificate in Educational Studies students until date specified in the Registration guide. Students must have a minimum of 12.0 overall credits.

EDUC 4P06

Classroom Assessment - Intermediate/Senior
Assessment literacy of prospective teachers. Classroom assessment relating to assessment of learning (summative), assessment for learning (formative and diagnostic) and assessment as learning (self-assessment). Assessment tasks and tools to enhance student learning and assessment situated in curriculum design.

Seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and Certificate in Educational Studies students until date specified in the Registration guide. Concurrent Education students must have a minimum of 16.0 overall credits and all other students must have a minimum of 11.0 overall credits. Completion of this course will replace previous assigned grade and credit obtained in EDUC 8P04.

EDUC 4P15

Research on Teaching

How educational research has contributed to the development of teaching.

Seminar, 3 hours per week.

Restriction: open to Professional Masters Preparation Certificate students.

EDUC 4P24

Literacy in the Early Years

Acquisition of oral language, reading and writing skills across the curriculum. Focus on sociocultural, cognitive, and linguistic influences on literacy development.

Seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEd (Primary/Junior) students with a minimum of 11.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 4P25

Literacy Across the Junior/Intermediate Curriculum

Understanding of and appreciation for the foundations of each area of study in elementary schools. Interdisciplinary curriculum design.

Seminar, 3 hours per week.

Restriction: open to BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and BPhEd (Honours)/BEd (Junior/Intermediate) students who have a minimum of 11.0 overall credits, and Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 4P26

Literacy Across the Intermediate/Senior Curriculum

Understanding of, and appreciation for, the foundations of each area of study in secondary schools. Interdisciplinary curriculum design.

Seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) students who have a minimum of 16.0 overall credits and Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 4P35

Global Education: A Cross-Curricular Approach

Theory and practice of teaching from a global perspective within the framework of the Ontario curriculum. New challenges in requiring the values, skills and knowledge necessary to be world-minded citizens capable of linking the local and the global.

Seminar, 3 hours per week.

Restriction: students must have a minimum of 13.0 overall credits.

EDUC 4P36

Global Education: Field Experience

Global issues (i.e., development, culture, gender, ecology, human rights, social justice) from the perspective of individuals within a particular geographical context.

Restriction: students must have a minimum of 13.0 overall credits and permission of the instructor.

Prerequisites: EDUC 4P45 or permission of the Instructor.

Note: Consult the Department prior to registration. Students are expected to cover all their own expenses.

EDUC 4P70

Education as a Socio-Political System

Concepts and controversies related to legal, ethical, professional, organizational, political and administrative aspects of education in Canada.

Seminar, 3 hours per week.

Restriction: open to Certificate in Educational Studies students until date specified in the Registration guide.

EDUC 4P80

Research Methods in Education

Trends in research design, ethics and data analysis.

Seminar, 3 hours per week.

Restriction: open to Certificate in Educational Studies students until date specified in the Registration guide.

EDUCATION SCIENCE

ESCI 1P10

Science for Primary/Junior Teachers

Science instruction and curriculum for the Primary and Junior level. Instruction in individual disciplines provide a foundation appropriate for Primary/Junior science instruction through background, materials, exercises and resources for doing elementary school science.

Lectures, lab, 3 hours per week.

Restriction: students must have a minimum of 5.0 overall credits.

Note: open to students intending to apply to a faculty of education and who have not taken university science courses beyond the science context requirements. Designed to meet the science admission requirement for the Primary/Junior Teacher Education program of the Faculty of Education at Brock University. For additional information contact the Teacher Education Department, Faculty of Education.

ESCI 3P91

Science for Elementary School Teachers

Focus on teaching the foundations of the science curriculum at the elementary level (grades 4-8). Selected issues in contemporary science education, as well as the application of computer software in the science classroom.

Lectures, seminar, practicum, 3 hours per week.

Restriction: open to BSc Integrated Studies (Honours)/BED (Junior/Intermediate) students with a minimum of 9.0 overall credits.

Note: students have a school placement and require Identification Cards issued by Ontario Education Services Corporation (OESC) based on a satisfactory police record check. Application packages for OESC are available at <http://www.oesc-cseo.org>. For additional information contact the Associate Administrative Director of Concurrent Education, Faculty of Education.

Education - Native Teacher Education

Director

Michael Manley-Casimir

Co-ordinator

Romaine Bomberry

General Information

Administrative Co-ordinator

Janie Hodson

905-688-5550, extension 3971

Captain John Decew 104

The Tecumseh Centre for Aboriginal Research and Education offers two programs to prepare Native elementary school teachers.

The Primary/Junior Certificate Program prepares candidates for teaching grades K-6 in elementary schools. The basic courses are adapted for the needs of Native pupils. Along with the basic requirements, the program includes experiences in the Aboriginal languages and cultures of the participants. At least eight weeks of practice teaching will be completed by each candidate.

The Native as a Second Language Certificate program is open to speakers fluent in a Native language. It focusses on teaching methods for language specialists, as well as on the grammar and writing systems of the candidates' Native languages. At least eight weeks of practice teaching will be completed by candidates in this program.

Successful candidates of the Primary/Junior Certificate Program of the Native Teacher Education program may be recommended by the Dean of the Faculty of Education to the Ontario College of Teachers for certification to teach in Ontario at the Primary/Junior level.

Successful completion of the Native as a Second Language Certificate Program of the Native Teacher Education program leads to certification in Native as a Second Language (NSL). To qualify for the NSL certificate, candidates must complete at least one year of successful teaching after completing the first year of the NSL program.

Those interested in a teaching career in Ontario are advised to refer to the Ontario College of Teachers Act 1966 and Regulation 184/97

Teachers Qualifications with respect to teachable subjects, definitions, basic qualifications and regulations.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.

2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.

3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.

4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Aboriginal candidates who hold an undergraduate degree may apply to the regular Pre-service Education Program (see Education-Pre-service Education).

Primary/Junior Certificate Program

Aboriginal candidates may be admitted to this program with Grade 12 or equivalent. Preference will be given to applicants with university credits.

Native as a Second Language Certificate Program

Candidates must be fluent in a Native language.

Certificate Program

Primary/Junior Certificate Program

- EDUC 8L09, 8P08, 8P10, 8P30, 8P33, 8P48, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38, 8Y39, 8Y50, 8Y60 and 8Y61
- EDUC 8P35 or 8P94
- EDUC 8P48 or 8P99
- EDUC 8P91 or 8P93

Native as a Second Language Certificate Program

- EDUC 8P08, 8P10, 8P11, 8P33, 8P91, 8P93, 8P94, 8P96, 8P97, 8P98, 8P99

Description of Courses

See relevant calendar entry for course descriptions.

Education - Teacher Education

Chair
Anne Elliott

Professors Emeriti
Ralph D. Connelly, Anthony S. Mollica,
Merle Richards, Alan Wheeler, Sybil Wilson

Professors
Sharon Abbey, Sheila M. Bennett, Anne
Elliott, Ruth L. McQuirter Scott

Associate Professors
Rodger J. Beatty, Donald H. Dworet, David
Hutchison, Debra McLaughlan, Louis
Volante

Assistant Professors
Lorenzo Cherubini, Darlene Ciuffetelli
Parker, Tony DiPetra, Xavier Fazio, Candace
Figg, Tiffany Gallagher, Joanne Graham,
Shelley Griffin, Kamini Jaipal-Jamani, Doug
Karrow, Julian Kitchen, Chunlei Lu, Joyce
Mgombelo, Camille Rutherford, Susan Sydor

Lecturers
Lionel LaCroix, Gail Phillips, Peter Vietgen

Co-ordinators
Joanne Graham (Hamilton Campus;
Intermediate/Senior Program)
Robert Moulton (Technological Education)
Michael Manley-Casimir (Native Teacher
Education Programs)
Donald H. Dworet (Practice Teaching)
Randy Hill (Out-of-Region Placements)

Admissions Counsellor
Phyllis Stanley

General Information

Administrative Co-ordinators

St. Catharines Campus
Lesa Mansfield

905-688-5550, extension 3341
Welch Hall 123
<http://www.ed.brocku.ca/Departments/preserv>

Hamilton Campus
Nancy Schoeberle

905-547-3555, extension 3610
1842 King Street East Hamilton
<http://www.ed.brocku.ca/Departments/preserv>

Administrative Assistant, Practicum

St. Catharines and Hamilton Campus
Michelle Smythe

905-688-5550, extension 4967
Welch Hall 123

The Department of Teacher Education offers three programs of study for candidates interested in teaching Primary/Junior (grades K-6), Junior/Intermediate (grades 4-10) and Intermediate/Senior (grades 7-12) at the St. Catharines and Hamilton campuses. Field placements for the Junior/Intermediate program will normally be made in grade 4-8.

In addition, the Department of Teacher Education co-operates with other departments in offering concurrent programs leading to the conferring of a BA Honours/BEd (Intermediate/Senior), BA Child and Youth Studies (Honours)/BEd (Primary/Junior), BA Integrated Studies Honours/BEd (Junior/Intermediate), BPhEd Honours/BEd (Intermediate/Senior or Junior/Intermediate), BSc Honours/BEd (Intermediate/Senior) and BSc Integrated Studies Honours/BEd (Junior/Intermediate). Bachelor of Education programs are field oriented and are based on an approach unique in Ontario. Much of the orientation to and instruction in professional practice takes place through supervised cohort groups of teacher candidates in schools throughout the Niagara Peninsula and the regions of Hamilton Wentworth, Haldimand-Brant, Halton and Peel. Transportation to required off-campus courses, internship centres and schools is the responsibility of the teacher candidate. Candidates who are accepted into the BEd program to teach in secondary schools are assigned to work with specialized subject area tutors from secondary schools.

The Department of Teacher Education reserves the right to assign Concurrent Education students in their final year to either the Hamilton or St. Catharines campus in order to secure school placements aligned with teachable subjects.

Upon acceptance into the program, applicants must complete a satisfactory criminal background check through the Ontario Education Services Corporation. School Boards require teacher candidates to complete this background screening prior to having direct contact with students. Otherwise schools will not allow teacher candidates to participate in practice teaching. In addition, the Ontario College of Teacher's requires a separate criminal background check before certification.

EDTE

The teacher education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g., the Ontario College of Teachers). The program requirements for the Teacher Education program may change in order to meet the outside regulatory requirements.

Teacher candidates who have successfully completed all required courses in the program for a BEd will normally be recommended to the Ontario College of Teachers for an Ontario Certificate of Qualification.

An essential part of the Teacher Education program takes place in schools with at least 11 weeks of observation and teaching (EDUC 8D09/8L09). When performance in EDUC 8D09/8L09 is regarded as inadequate, the teacher candidate will be assessed by the Co-ordinator of Practice Teaching or designate. That assessment will determine eligibility to proceed in EDUC 8D09/8L09. Where performance so warrants, and in the interest of the pupils' welfare, the Faculty will not place a teacher candidate in a classroom or will remove a teacher candidate from the classroom.

All teacher candidates are advised to refer to the policies and procedures in the Program Notes for Teacher Candidates.

Successful candidates of the Teacher Education Primary/Junior, Junior/Intermediate and Intermediate/Senior program will be awarded a BEd, and are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

Successful degree candidates of the Technological Education program will be awarded a BEd while non-degree candidates will be awarded a Certificate in Education. Teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification. Candidates are certified to teach one of the following areas: communications technology, computer technology, construction technology, green industries, hairstyling and aesthetics, health care, technological design, hospitality and tourism, manufacturing and transportation technology. Candidates must meet all additional Ontario College of Teachers requirements. Candidates will receive the Science and Technology, Grade 7 and 8 Additional Qualification along with a Certificate of Technology for the completion of practical studies in design and production involving various technologies. The focus of

this study is a more thorough understanding of the Grade 7-10 learner in practical areas of technology with a focus on the Grade 9 Exploring Technologies area. In addition to satisfactorily completing the methodology course(s), candidates will demonstrate and prove their technical proficiency in their selected area both through the summer practical sessions, as well as their practicum placements during the year. Those who complete the program successfully and are certified by the Ontario College of Teachers, may enroll in an Additional Qualifications course, where available, to obtain a Grade 9 & 10 qualification in a second broad based technology area.

Three Native Teacher Education programs (NTEP) are offered to prepare Native elementary school teachers. These programs meet the certification requirements of the Ontario College of Teachers.

Aboriginal candidates who hold an undergraduate degree may apply to the regular Teacher Education program. Successful candidates of the regular Native Teacher Education program will be awarded a BEd and are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

The Native Teacher Education Primary/Junior Certificate Program prepares candidates for teaching Grades K-6 in elementary schools. The basic courses are adapted for the needs of Native pupils. Along with the basic requirements, the program includes experiences in the Aboriginal languages and cultures of the participants. At least eight weeks of practice teaching will be completed by each candidate.

Successful candidates of the Primary/Junior Certificate Program of the Native Teacher Education program may be recommended by the Dean of the Faculty of Education to the Ontario College of Teachers for certification to teach in Ontario at the Primary/Junior level.

The Native as a Second Language Certificate Program is open only to speakers fluent in a Native language focusing on teaching methods for language specialists, as well as on the grammar and writing systems of the candidates' Native languages. At least eight weeks of practice teaching will be completed by candidates in this program.

Successful completion of the Native as a Second Language Certificate Program of the Native Teacher Education program leads to certification in Native as a Second Language

(NSL). To qualify for the NSL certificate, candidates must complete at least one year of successful teaching after the first summer session.

For further information regarding the Department of Teacher Education program, candidates should contact the Chair, Department of Teacher Education.

Those interested in a teaching career in Ontario are advised to refer to the Ontario College of Teachers Act 1996 and (Regulation 184/97 Teachers Qualifications) with respect to teachable subjects, definitions, basic qualifications and regulations.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers' Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the OCT Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Candidates are expected to have some experience in working with children and

youth of the age group in the program for which they are applying.

Enrolment in the Faculty of Education is limited to approximately 600 positions for both concurrent and consecutive programs. Applicants for the consecutive year program for the Primary/Junior, Junior/Intermediate and Intermediate/Senior divisions must have completed the requirements for a Bachelor's Degree acceptable to Brock prior to the beginning of classes in September. Selection is based on the academic average of the best 10 undergraduate degree credits and on experience as submitted on the Brock Experience Profile Form. The Experience Profile should include two experiences of a minimum of 100 hours each. Only candidates with a minimum B average (75 percent at Brock) on their top 10 credits will be considered. Because the experience profile is a significant part of the selection process, applicants should complete the form with care. For applicants to the consecutive year Technological Education program selection is based on a combination of academics, competency in skilled, work-related experience and the Brock Applicant Profile Form.

Applications are available from the Ontario Universities Application Centre (OUAC) at: <http://www.ouac.on.ca/teas> and must be received by the Ontario Universities' Application Centre (OUAC) by the date specified in the OUAC TEAS application form, to be considered for admission to the program. All supporting documentation (a university transcript, Experience Profile and two letters of verification) must be received at the Registrar's Office, Brock University, by the date specified in the OUAC application form. Only information received by those dates will be considered part of the admission file.

Applicants who are not Canadian citizens or landed immigrants may be admitted to the program for a BEd degree. Such persons are eligible for the Ontario Certificate of Qualification program where they show evidence of authorization to work in teaching in Canada. Such persons receive a Certificate of Qualification (Limited/Restricted), (Ont. Reg. 184).

Because of the highly integrated nature of the program, candidates who have preregistered must be present for the beginning of program activities.

In addition to the general requirements, candidates for the BEd and certification to teach in Ontario must submit the following:

- a) a certificate of birth or baptism, or other acceptable proof of the date and place of birth;
- b) a certificate of change of name where applicable;
- c) be able to demonstrate an acceptable level of fluency and accuracy in spoken and written English; and/or attend an interview and/or submit a written résumé if requested;
- d) have a basic level of computer skills.

Teacher candidates are required to select one of the following areas of concentration:

Primary/Junior (Grades K-6)

Candidates are encouraged to have an area of concentration related to school curricula. Some preference will be given to Primary/Junior candidates with a major in Child and Youth Studies.

Candidates must have completed 4U/M courses, university or university/college preparation courses in Canadian geography or Canadian history (or similar courses that emphasize Canadian content), mathematics, science and English. For those candidates who have not completed these secondary school courses, equivalent courses at the community college or university level will be considered.

Teacher candidates are also encouraged to take arts and physical education courses.

Junior/Intermediate (Grades 4-10)

Candidates wishing to specialize in grades 4-10 must identify one teachable subject at the Junior/Intermediate level. Candidates must have at least three credits, averaging 75 percent, in one of the teachable subjects listed below. At least one credit must be numbered 2(alpha)00 or above. In most cases, only courses eligible to meet requirements for major programs can be counted in support of teachable subjects. Exceptions: BIOL 1F25, CHEM 1P00, ERSC 1F90, MATH 1F92.

The following guidelines will be used in evaluating teachable subject requirements:

Dramatic Arts - Creativity-based practical work courses with a reflective component are required. A maximum of 1.0 credit in theory-based courses, history of theatre/drama/dramatic literature.

English - A minimum of 1.0 credit in English literature/poetry.

French (second language) - 2.0 credits must be in grammar/composition, both of which

must be given in French. A maximum of 1.0 credit in translation.

Geography - 0.5 credit or the equivalent must be in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

Health and Physical Education - 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in courses related to Health Studies is required.

History - 1.0 credit must be in Canadian history. A maximum of 1.0 credit in history of art. A maximum of 1.0 credit in Greek/Roman civilization.

Mathematics - A maximum of 1.0 credit in statistics.

Music (Vocal) - A maximum of 1.0 credit in the history of music.

Science-General - 2.0 credits in one subject from Biology, Chemistry, or Physics (including Astronomy). The remaining 1.0 credit may be from one of these subjects not used, or from Earth Sciences or Environmental Science.

Visual Arts - Studio-based course credits are required. A maximum of 1.0 credit from film, photography, architecture, fashion or history of art. Candidates must have completed 4U/M, university or university/college preparation courses in Canadian geography or Canadian history (or similar courses that emphasize Canadian content), mathematics, science and English. For those candidates who have not completed these secondary school courses, equivalent courses at the community college or university level will be considered.

Intermediate/Senior (Grades 7-12)

At the Intermediate/Senior level, candidates must identify two teachable subjects. Candidates should consider a second teachable subject distinctly different from the first teachable. Candidates may only declare one business teachable. The second teachable must come from another subject area. Candidates must have at least five credits, averaging 75 percent, in a first teachable subject and three credits, averaging 70 percent, in a second teachable subject. In most cases, only courses eligible to meet requirements for major/minor programs can be counted in support of teachable subjects. For the first teachable subject, at least three of the five credits must be numbered 2(alpha)00 or above. For the second teachable, at least one of the three credits must be numbered 2(alpha)00 or above. Each

credit or equivalent may be counted for one teachable subject only.

The following guidelines will be used in evaluating teachable subject requirements:

Business Studies-Accounting - For first and second teachable, a maximum of 1.0 credit in business law. All other credits must be in accounting.

Business Studies -General- For a first teachable, a maximum of 1.0 credit in Economics. At least 3.0 credits from any of the following: Business Ethics; Organizations; Entrepreneurship; Management; Marketing. For second teachable, a maximum of 1.0 credit in Economics. At least 2.0 credits from any of the following: Business Ethics; Organizations; Entrepreneurship; Management; Marketing.

Business Studies - Information and Communication Technology - For first teachable, a minimum of 2.0 credits in information technology applications for business (e.g. Business courses in computer applications, database management, information systems, spreadsheet applications, or networking). The remaining 3.0 credits from Business Ethics; Organizations; Entrepreneurship; Management; Marketing. For second teachable, a minimum of 2.0 credits in information technology applications for business. The remaining 1.0 credit from Business Ethics; Organizations; Entrepreneurship; Management; Marketing.

Computer Studies - For first teachable, all 5.0 credits must be in computer and information science related to software design and programming; problem solving; logic and design. For second teachable, all 3.0 credits must be in computer and information science related to software design and programming; problem solving; logic and design.

Dramatic Arts - For first and second teachable, creativity-based practical work courses with a reflective component are required. A maximum of 1.0 credit in theory-based courses, history of theatre/drama/dramatic literature.

English - For first teachable, a minimum of 1.0 credit in English literature/poetry. At least 1.0 credit in Canadian content preferred. For second teachable, a minimum of 1.0 credit in English literature/poetry. At least 1.0 credit in Canadian content preferred.

French (second language) - For first and second teachable, 2.0 credits must be in

grammar/composition, both of which must be given in French. A maximum of 1.0 credit in translation.

Geography - For first and second teachable, 0.5 credit in Canadian geography is required. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

Health and Physical Education - For first and second teachable, 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in courses related to Health Studies is required.

History - For first and second teachable, 1.0 credit in Canadian history is required. A maximum of 1.0 credit in history of art. A maximum of 1.0 credit in Greek/Roman civilization.

International Languages - German - Applicants may choose only one international language (German, Italian, or Spanish) as a teachable. The second teachable must come from another subject area, including French. For first and second teachable, 2.0 credits must be in grammar/composition, both of which must be given in German. A maximum of 1.0 credit in translation.

International Languages - Italian - Applicants may choose only one international language (German, Italian, or Spanish) as a teachable. The second teachable must come from another subject area, including French. For first and second teachable, 2.0 credits must be in grammar/composition, both of which must be given in Italian. A maximum of 1.0 credit in translation.

International Languages - Spanish - Applicants may choose only one international language (German, Italian, or Spanish) as a teachable. The second teachable must come from another subject area, including French. For first and second teachable, 2.0 credits must be in grammar/composition, both of which must be given in Spanish. A maximum of 1.0 credit in translation.

Mathematics - For first teachable, a maximum of 2.0 credits in statistics. For second teachable, a maximum of 1.0 credit in statistics.

Religious Education

Science - Biology - For first and second teachable, a maximum of 1.0 credit in Anatomy, Physiology, Biochemistry, or Biomechanics.

Science - Chemistry - For first and second teachable, Biochemistry courses may be accepted.

Science - General - For first teachable, 3.0 credits must be from Biology, Chemistry, or Physics (including Astronomy) with a minimum of 2.0 credits in one subject and 1.0 credit in one of the other subjects. The remaining 2.0 credits may be from any of these subjects or from Earth Sciences or Environmental Science. For second teachable, 2.0 credits must be from Biology, Chemistry, or Physics (including Astronomy). 1.0 credit may be from one of the subjects not used or from Earth Sciences or Environmental Science. If applicants wish to declare Biology, Chemistry, or Physics as a first or second teachable subject, they may only do so with the science subject not used for the Science-General teachable.

Science - Physics - For first teachable, all 5.0 credits must be in Physics related to: Electricity; Energy, Work, Power, Matter and Energy; Forces and Motion; Gravitation; Hydraulic and Pneumatic Systems; Magnetism; Waves-Light and Sound. A maximum of 1.0 credit in Astronomy. For second teachable, all 3.0 credits must be in Physics related to the topics listed above. A maximum of 1.0 credit in Astronomy.

Visual Arts - For first and second teachable, studio-based course credits are required. A maximum of 1.0 credit from film, photography, architecture, fashion, or history of art.

Due to limited capacity, not all subjects may be offered in any one year and given the Faculty's need to respond to teacher shortages, special priority may be given to areas of high need.

Technological Education Intermediate/ Senior (Grades 7-12)

Candidates must also submit the following before classes begin:

- a) a full résumé
- b) evidence of academic qualifications satisfactory to the University

Technological Education Candidates Holding a Degree

Applicants who hold a degree from a recognized university must meet the following admission requirements:

- a) Competence in one area of Technological Education at both the Grade 9 and 10 and related Grade 11 and 12 level or both areas of Technological Education at the Grade 9 and 10 level.

b) One of:

i) five years of wage-earning experience, including business or industrial experience, where the applicant used skills and knowledge in the area of the broad-based technology subject selected by the applicant;

or

ii) (a) a combination of at least two years of continuous wage-earning experience and successful completion of a post-secondary education that includes at least six semesters of academic study (equivalent to a three-year diploma or degree), where the experience and education used the applicant's skills and knowledge in the area of the broad-based technology subject selected by the applicant;

or

ii) (b) a combination of at least two years of wage-earning experience, including business or industrial experience, no less than four months of which is continuous employment (e.g. co-op placements/apprentice placements) and successful completion of a post-secondary education that includes at least six semesters of academic study (equivalent to a three-year diploma or degree), where the experience and education used the applicant's skills and knowledge in the area of the broad-based technology subject selected by the applicant.

c) A Certificate of Qualification (trade certificate/licence) in the recognized and/or regulated trades that is associated with construction, hairstyling and aesthetics, health care, hospitality and tourism, manufacturing, and transportation, or equivalent work-related experience and post-secondary education for communications technology, computer technology, green industries and technological design. Some of the last four areas listed may require a certificate of qualification issued by the MCTU in addition to the post-secondary education and work-related experience.

Technological Education Candidates Not Holding a Degree

Applicants holding a minimum of a two-year diploma from a College of Applied Arts and Technology or equivalent (a minimum of 16 months post-secondary education), and meeting all other admissions criteria as outlined above, may be considered for admission to the Technological Education.

Preference will be given to those applicants who hold a degree. Those admitted without a degree will be eligible to receive a Certificate in Education.

Native Teacher Education

Aboriginal candidates who hold an undergraduate degree may apply to the regular Teacher Education program.

Primary/Junior Certificate Program
Aboriginal candidates may be admitted to this program with Grade 12 or equivalent.

Native as a Second Language Certificate Program
Candidates must be fluent in a Native language.

Program Components and Requirements

1. Teaching methods designed to meet individual needs of pupils.
2. The acts and regulations governing education.
3. A review of the curriculum guidelines related to all of the divisions and a study of curriculum development.
4. At least 11 weeks of practical experience in schools.

The program requirements as outlined may be met through the successful completion of compulsory and options courses. For full-time teacher candidates, these courses are co-requisite and must be taken concurrently. Note: teacher candidates will be required to attend some off-campus courses and programs. Transportation to these courses and programs is the responsibility of the teacher candidate.

Candidates specializing in Grades 4-10 must identify one teachable subject at the Junior/Intermediate level. Depending on their undergraduate major, Junior/Intermediate certification recommendations will be as follows:

Dramatic Arts
English
French (second language)
Geography
Health and Physical Education
History
Mathematics
Music-Vocal
Science-General
Visual Arts

Candidates specializing in Grades 7-12 will participate in two courses, one in each teachable subject (courses in the range of EDUC 8P65-8P90, 8F76). Teaching subjects offered are as follows:

Business Studies-Accounting
Business Studies/General
Business Studies-Information and Communication Technology
Computer Studies
Dramatic Arts
English
French

Geography
Health and Physical Education
History
International Languages-Italian
International Languages-Spanish
International Languages-German
Mathematics
Religious Education
Science-Biology
Science-Chemistry
Science-General
Science-Physics
Visual Arts

Technological Education Teachable Subject courses are offered at the Grade 9 and 10 level and the Grade 11 and 12 level and consist of 40 contact hours. Students are required to take two courses, one at the Grade 9 and 10 level and the second at the Grade 11 and 12 level according to their technological background and demonstrated technical ability as outlined in the application profile and determined by the Program Co-ordinator. Teaching subjects offered are as follows:

Agriculture/Agribusiness
Arboriculture
Child Care
Commercial Construction Technology
Communications Technology
Computer and Information Technology
Computer Technology
Computer Engineering Technology
Construction Technology
Custom Woodworking Technology
Design Systems Technology
Electronic Communications Technology
Floristry
Food Preparation
Forestry
Freight Transportation Systems Technology
Geriatric Care
Graphic Communications Technology
Green Industries
Hairstyling and Aesthetics
Health Care
Horticulture/Horticultural Science/Management
Hospitality and Tourism
Industrial Construction Technology
Landscape Design/Construction/Management
Live Communications Technology
Manufacturing Process Technology
Manufacturing Technology
Mass Transit Systems Technology
Personal Transportation Technology
Personal Care
Problem Solving Technology Process Technology
Process and Production Planning Technology
Product Design Technology
Real World Applications of Technology
Recreational Construction Technology
Residential Construction Technology

Technological Design
Tourism
Transportation Technology
Travel and Accommodation

Program Notes

1. EDUC 8F76 and one-half credit is required for teacher candidates with French as a Second Language as one of the teachable subjects.
2. Must be chosen from the areas of communications technology, computer technology, construction technology, green industries, hairstyling and aesthetics, health care, manufacturing, transportation technology, hospitality and tourism, and technological design. Both broad-based teachable subject selections must be from the same broad-based technology. One teachable subject will be taken at the Grade 9 and 10 level and the other will be taken at the Grade 11 and 12 level. Teachable Subject course selection will be dependent on the level and extent of the candidate's technological ability as outlined in the application profile and determined by the Program Co-ordinator.

Primary/Junior

•EDUC 8D09, 8F08, 8P30, 8P31, 8P33, 8Y04, 8Y05, 8Y31, 8Y34, 8Y36, 8Y37, 8Y39, 8Y61 and 8Y63

Junior/Intermediate

•EDUC 8F08, 8D09, 8P20, 8P21, 8P23, 8Y04, 8Y05, 8Y24, 8Y26, 8Y27, 8Y29, 8Y61 and 8Y63

Intermediate/Senior

•EDUC 8D10, 8L09, 8P04, 8P06, 8Y04 and 8Y05
•one credit from EDUC 8F76, 8P65, 8P66, 8P67, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90 (see program note 1)

Technological Education

Phase I

Offered at the Hamilton Campus and the Hamilton-Wentworth District School Board

•EDUC 8P61, 8R98 and 8R99
•EDUC 9G68

Phase II

•EDUC 8D10, 8L09, 8P04, 8P06, 8Y04 and 8Y05

•one credit from EDUC 8R00- 8R77 (see program note 2)

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

EDUC 8D09

Principles and Practices for Professional Certification - Primary/Junior/Intermediate
Practical experiences in observing and teaching in schools, including teaching centre/internship activities. Integration with EDUC 8F08 or 8P16 through reflective practice, analysis and guided application.
Lectures, seminar, 5.5 hours per week; plus practicum.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Teacher Education and programs, BA CHYS (Pass)/BEEd (Primary/Junior) and BA CHYS (Honours)/BEEd (Primary/Junior) majors with a minimum of 15.0 overall credits, BA Integrated Studies (Honours)/BEEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEEd (Junior/Intermediate), and BPhEd (Honours)/BEEd (Honours) majors with a minimum of 20.0 overall credits.

Co-requisite: EDUC 8F08 or 8P16.

Note: students will be guided in practice teaching for at least 10 weeks throughout the year. Successful completion of the in-school practice teaching is required.

EDUC 8D10

Instructional Strategies: Intermediate/Senior

Planning and implementation, management, instructional approaches, curriculum development and delivery and current issues. Integrated with internship/practicum (EDUC 8L09), requiring close collaboration and interaction with students and teachers. Observation, experience in the classroom, time management, self- and peer-evaluation

and practical application of pedagogical theory. Independent projects, tutoring, reflection and journal writing.

Lectures, seminar, 4 hours per week; plus practicum.

Restriction: open to students admitted to the Intermediate/Senior program.

Co-requisite: EDUC 8L09.

Note: credit will not be given for this course unless EDUC 8L09 is successfully completed.

EDUC 8F08

Curriculum Methods: Understanding Teaching and Learning

Connections between observation and experiences in field-based school placements to theory and reflection. Foundational method components and strategies of classroom and curriculum as related to the Ontario Curriculum and the Ontario College of Teachers Foundations of Professional Practice. The personal philosophy of education and curriculum.

Lectures, seminar, 4 hours per week; plus practicum.

Restriction: open to students admitted to Teacher Education and to BA CHYS (Pass)/BEEd (Primary/Junior) majors with a minimum of 15.0 overall credits, BA Integrated Studies (Honours)/BEEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEEd (Junior/Intermediate), and BPhEd (Honours)/BEEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Co-requisite: EDUC 8D09.

Note: credit will not be given for this course unless EDUC 8D09 is successfully completed.

EDUC 8F11

Instructional Strategies Intermediate/Senior
Sequential to EDUC 8P08. Reflection upon and application of experience in preceding practicum in areas of planning, management, methodological approaches, current social and educational issues and evaluation processes. Integrated workshops/seminars in context of continued practical experience in schools.

Lectures, seminar, 4 hours per week.

Restriction: open to BA (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Intermediate/Senior) and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

Co-requisite: EDUC 8L09.

Note: credit will not be given for this course unless EDUC 8L09 is successfully completed.

EDUC 8F76

French as a Second Language: Intermediate/Senior

The theory of and approaches to teaching and learning a second language; the methodological approaches involved in

teaching French as a second language at the intermediate and senior levels.

Lectures, seminar, 4 hours per week.

Restriction: open to students admitted to the Intermediate/Senior programs, and BA (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Intermediate/Senior) and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8L09

Principles and Practices for Professional Certification - Intermediate/Senior

Practical experiences in observing and teaching in schools, including teaching centre/internship activities. Integration with EDUC 8D10 or 8F11 through reflective practice, analysis and guided application.

Lectures, seminar, 5.5 hours per week; plus practicum.

Restriction: open to students admitted to the Ontario Certificate of Qualification Teacher Education and Technological Education programs, and to BA (Honours)/BEEd (Intermediate/Senior, BPhEd (Honours)/BEEd (Intermediate/Senior), and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

Co-requisite: EDUC 8D10 or 8F11.

Note: students will be guided in practice teaching for at least 12 weeks throughout the year. Successful completion of the in-school practice teaching is required.

EDUC 8P02

Diversity Issues in Schooling

Issues and directions in a diverse society and their impact in the classroom; includes classism, racism, multiculturalism, ableism and sexism; roles and strategies leading to the goal of equity.

Lectures, seminar, 3 hours per week.

Restriction: open to BA (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Intermediate/Senior) and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 2P65.

EDUC 8P04

Student Assessment

Enhancement of prospective teachers' skills in measurement and evaluation emphasizing teacher-made tests. Types, purposes and interpretations of standardized tests and issues and concerns related to testing and measurement. Authentic or alternative assessment and classroom, school and regional evaluation.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Intermediate/Senior program.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 4P02.

EDUC 8P06

Classroom Dynamics: Teaching and Learning

Basic principles of child development and learning which guide the teacher in making decisions about classroom performance. Topics include perception of self, motivation, conditioning, cognition, intelligence and creativity and general principles of human development and behaviour modification. Modular approach with lecture, independent study, seminar simulations and guided classroom observations.

Lectures, seminar, practicum, 2 hours per week.

Restriction: open to students admitted to Intermediate/Senior and Technological Education programs.

EDUC 8P08

Instructional Strategies I

Planning and preparatory aspects of teaching, addressing the ongoing process of diagnosis as essential to such elements of instruction as motivation, classroom management and discipline within the expository discussion and inquiry models of teaching.

Seminar, 2 hours per week.

Restriction: open to students admitted to the Native Teacher Education programs, and BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 10.0 overall credits.

Note: students have a school placement for which a Police Records Check is required. Only Record Checks (in the form of an identification card) issued by the Ontario Education Services Corporation (OESC) will be accepted. Application packages for OESC are available at www.oesc-cseo.org.

EDUC 8P10

Instructional Strategies II

Sequential to EDUC 8P08. Planning, management, methodological approaches, social and educational issues, evaluation processes.

Seminar, 4 hours per week.

Restriction: open to students admitted to the Native Teacher Education and Teachers in Independent Schools program.

EDUC 8P11

Computers in Education

Overview of computer technology as it presently exists in many school systems. Examination of computer software packages and evaluation of their use for application in effective curriculum design. Technology across the curriculum, word processing,

software evaluation, and the application of spreadsheets and databases.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Native Teacher Education Certificate program.

EDUC 8P13

French as a Second Language for Teacher Education Students

Introduction to basic principles of teaching French as a Second Language. May include lesson and unit development and pedagogical approaches.

Lectures, seminar, 2 hours per week; plus at least a three-week practicum in FSL teaching.

Restriction: open to students admitted to Junior/Intermediate program with French as a teachable subject and BA Integrated Studies (Honours)/BEd (Junior/Intermediate) with French as a teachable with a minimum of 15.0 overall credits.

Note: course credit will not be given without completion of a successful three-week supervised practicum in FSL teaching.

EDUC 8P15

Foundational Methods in Teaching, Learning and Schooling

Exploration of commonplaces of education, qualities of teaching and methods as related to the Ethical Standards and the Standards of Practice of the Ontario College of Teachers. Connections between theory, experience and reflective practices using narrative inquiry approaches. Progressive and constructivist theory and philosophy.

Lectures, 2 hours per week.

Restriction: open to BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 10.0 overall credits.

Note: students have a school placement for which a Police Records Check is required. Only Record Checks (in the form of an identification card) issued by the Ontario Education Services Corporation (OESC) will be accepted. Application packages for OESC are available at www.oesc-cseo.org.

EDUC 8P16

Foundational Methods of Curriculum

Connections between theory, practice and reflection to observation and experiences in school field placements. Foundational components of curriculum and exploration of classroom strategies as related to the Ontario Curriculum and to philosophy of education.

Lectures, 2 hours per week.

Restriction: open to BA Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 10.0 overall credits, BA CHYS (Honours)/BEd (Primary/

Junior), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Prerequisite: EDUC 8P15.

Co-requisite: EDUC 8D09.

Note: credit will not be given for this course unless EDUC 8D09 is successfully completed.

EDUC 8P17

Classroom Dynamics for Concurrent Education Students - Primary/Junior

Readings, discussions, role plays and problem-solving exercises focusing on classroom management, assessment and evaluation based on principles of teaching and learning.

Lectures, seminar, 2 hours per week.

Restriction: open to BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 4.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 10.0 overall credits.

Note: students have a school placement for which a Police Records Check is required. Only Record Checks (in the form of an identification card) issued by the Ontario Education Services Corporation (OESC) will be accepted. Application packages for OESC are available at www.oesc-cseo.org.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y61 and 8Y63.

EDUC 8P18

Classroom Dynamics for Concurrent Education Students - Junior/Intermediate

Readings, discussions, role plays and problem-solving exercises focusing on classroom management, assessment and evaluation based on principles of teaching and learning.

Lectures, seminar, 2 hours per week.

Restriction: open to BA (Honours) Integrated Studies/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc (Honours) Integrated Studies/BEd (Junior/Intermediate) with a minimum of 15.0 overall credits.

Note: students have a school placement for which a Police Records Check is required. Only Record Checks (in the form of an identification card) issued by the Ontario Education Services Corporation (OESC) will be accepted. Application packages for OESC are available at www.oesc-cseo.org.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y61 and 8Y63.

EDUC 8P19

Classroom Dynamics for Concurrent Education Students - Intermediate/Senior
Readings, discussions, role plays and

problem-solving exercises focusing on classroom management, assessment and evaluation based on principles of teaching and learning.

Lectures, seminar, 2 hours per week.

Restriction: open to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) with a minimum of 15.0 overall credits.

Note: students have a school placement and require Identification Cards issued by Ontario Education Services Corporation (OESC) based on a satisfactory police record check. Application packages for OESC are available at www.oesc-cseo.org.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y61 and 8Y63.

EDUC 8P20

Junior/Intermediate Language

Basic principles of language learning are examined and applied to the teaching of listening, speaking, reading and writing as interrelated abilities. Emphasis on using language in a variety of contexts for different purposes and audiences, and on the developmental nature of language learning. Teaching strategies which encourage language use across the curriculum and the world outside of school.

Lectures, seminar, 2.5 hours per week.

Restriction: open to students admitted to the Junior/Intermediate program, and to BA (Honours) Integrated Studies/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

EDUC 8P21

Junior/Intermediate Mathematics

Teaching mathematics at the Junior and Intermediate levels. Resources, curriculum and methods.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Junior/Intermediate program, and to BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y21.

EDUC 8P23

Junior/Intermediate Arts

An introduction to education in and through the arts (dramatic arts, music, visual arts and dance) as defined in provincial documents. Examples of methods for integration of common components of form, function,

meaning and communication are presented, with practical applications across the arts, the broader school curriculum and the life of students in the junior and intermediate grades.

Lectures, seminar, 2.5 hours per week.

Restriction: open to students admitted to the Junior/Intermediate program, and to BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

EDUC 8P28

Special Topics in Junior/Intermediate Education

Topics selected vary on the basis of specific areas of instructional expertise and candidate interest.

Lectures, seminar, 2 hours per week.

EDUC 8P30

Primary/Junior Language

Strategies for the development of communicative competence in listening, speaking, reading and writing. Emphasis on the use of language for learning and thinking across the curriculum. The role and purpose of children's literature in enhancing the learning to read process.

Lectures, seminar, 2.5 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Primary/Junior programs, and to BA CHYS (Pass)/BEd (Primary/Junior) and BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits.

Note: offered as a summer course for the Native Teacher Education Program.

EDUC 8P31

Primary/Junior Mathematics

Teaching mathematics at the junior and intermediate levels. Resources, curriculum, and methods.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Primary/Junior programs, and to BA CHYS (Pass)/BEd (Primary/Junior) and BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8Y31.

EDUC 8P33

Primary/Junior Arts

Introduction to education in and through the arts (dramatic arts, music, visual arts and dance) as defined in provincial documents. Examples of methods for integration of common components of form, function,

meaning and communication, with practical applications across the arts, the broader school curriculum and the life of students in the primary and junior grades.

Lectures, seminar, 2.5 hours per week.

Restriction: open to students admitted to the Native Teacher Education and Primary/Junior programs, BA CHYS (Honours)/BEd (Primary/Junior) and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 10.0 overall credits.

Note: offered as a summer course for the Native Teacher Education programs.

EDUC 8P35

Children's Literature

Various genres of children's literature; a variety of methods for integration into the curriculum at primary, junior and intermediate levels. Specific reference to both Canadian and multicultural selections.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA CHYS (Honours)/BEd (Primary/Junior) majors, BPhEd (Honours)/BEd (Junior/Intermediate), BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

EDUC 8P36

Arts (Advanced)

Issues and directions in contemporary arts education, with a concentration on planning for a primary, junior or intermediate level, according to the precepts in provincial curriculum documents and on serving the learner as well as the subject.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEd, BPhEd/BEd and BSc/BEd majors with a minimum of 15.0 overall credits.

EDUC 8P37

Mathematics, Science, and Technology (Advanced)

Current issues and trends in mathematics, science and technology education, focusing on changes in curriculum, instructional strategies and assessment practices for Primary/Junior/Intermediate students.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEd, BPhEd/BEd and BSc/BEd majors with a minimum of 15.0 overall credits.

EDUC 8P38

Special Topics in Primary/Junior Education

Topics selected vary on the basis of specific areas of instructional expertise and candidate interest.

Lectures, seminar, 2 hours per week.

EDUC 8P39**Personal and Social Studies (Advanced)**

The interconnections between current events and social studies, guidance and physical education as these relate to the four broad categories outlined in provincial curriculum documents; meaningful participation of individuals in society; understanding diversity and valuing equity; understanding systems and functioning in the age of information.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P40**Family Literacy and Parent Involvement in Education**

Students apply their knowledge to investigate specific school practices for family literacy development and to design practical, school-based parent involvement strategies.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P41**Societal Issues and Schooling**

How current societal issues (e.g., child abuse, drug use) influence the schooling environment, students' lives and teachers' lives. The impact of selected issues on curriculum, teaching and learning with the intent of creating interventions for change in the classroom.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P42**Reflection on Practice**

Classroom interactions in relation to beliefs, values and pedagogy. Students will plan classroom actions, act, observe their plans in action and reflect on the results before using the experience to replan. The reflective process will include both group interactions and individual responses.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

Students completing this course will forfeit credit in EDUC 4P03.

EDUC 8P43**Adult Education**

A comparative study of pedagogy and androgogy focusing on what teachers can learn from various comparisons to inform their decisions about how to teach at elementary and secondary school levels.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P44**Gender Issues**

Students will be encouraged to confront their own assumptions, family roles, cultural conditions and stereotypes related to gender, sexuality and power; to reflect on how such experiences and biases affect the classroom environment and schooling; and to become aware of strategies intended to bring about change and positive role modeling.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P45**Teaching in the Inner City**

Population of inner city schools and how they might differ from suburban schools, and how social needs have affected the school's academic function and the relationship between teachers, pupils and parents. Concepts such as equity and equality, social and economic class, urban life, multiculturalism, culture, family, cultural capital, poverty, disadvantage, change and empowerment are included.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P47**Outdoor Education**

Strategies and curriculum related to environmental education. Students will be expected to participate in a variety of school-related outdoor education experiences.

Lectures, seminar, 3 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P48**Teaching on Reserves**

Native pedagogy and curriculum necessary for effective instruction on both northern and southern Ontario reserves.

Lectures, seminar, 3 hours per week.

Restriction: open to students admitted to the Native Teacher Education Certificate Program, Teacher Education, and to BA/BEEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

EDUC 8P61**The Teacher in Technology, Change and the Curriculum**

Historical and current technological changes that impact the school curriculum; accommodation of and resistance to incorporation in the curriculum; the ethics of adopting technology.

Lectures, seminar, lab/shop, 2 hours per week.

Restriction: open to students admitted to the Technological Education and Teachers in Independent Schools program.

EDUC 8P65**Business Studies, General: Intermediate/Senior**

Teaching methods and curriculum materials for marketing and other resources for information management courses in secondary schools.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Intermediate/Senior) and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P66**Information and Communication****Technology, Business: Intermediate/Senior**

Teaching methods and curriculum materials and other resources for information management courses in secondary schools.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Intermediate/Senior) and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P67**Accounting: Intermediate/Senior**

Teaching methods and curriculum materials for accounting courses in secondary schools.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Intermediate/Senior) and BSc (Honours)/BEEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P69**Science (Physics): Intermediate/Senior**

Teaching physics in secondary schools; examination of Ontario Ministry, board and school curriculum documents and other resources.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA

(Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P72

Computer Studies: Intermediate/Senior
Implementing computer science skills and methods of instruction in a secondary classroom; integrating use of the computer into any department; detailed look at computer science and technology.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P73

Theatre Arts: Intermediate/Senior
The purposes of a theatre program in schools and the practice of skills required for managing a theatre class. Practical experience in theatre work or some formal training at the post secondary level is required.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P74

English: Intermediate/Senior
Development of teaching methodology and a personal philosophy of education through active participation and preparation of course material; may include research on the development of curricular units that deal with poetry, the short story, the novel, use and impact of the media.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P75

Individual in Society: Intermediate/Senior
Knowledge or related curriculum guidelines K - 12 and pertaining to teaching courses to develop remedial, regular and advanced programs and to evaluate student achievement. issues and concerns.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior),

BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P77

Geography: Intermediate/Senior
Development of a working knowledge of the skills, procedures and content involved in teaching geography at the secondary school level.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P78

International Languages (German): Intermediate/Senior
Theory of and approaches to teaching and learning a second language; methodological approaches involved in teaching German at the Intermediate and Senior levels.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P79

Instructional Design for eLearning Resources
Use of evidence-based principles and a variety of Internet tools and resources in support of the design and development of interactive multimedia eLearning.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Teacher Education, and to BA/BEd, BPhEd/BEd and BSc/BEd majors with a minimum of 20.0 overall credits.

Note: offered on-line.

EDUC 8P80

International Languages (Italian): Intermediate/Senior
Theory of and approaches to teaching and learning a second language; methodological approaches involved in teaching Italian at the Intermediate and Senior levels.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P81

Mathematics: Intermediate/Senior
Teaching techniques and curriculum materials in mathematics with some focus on teaching mathematics to general level students.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P82

Health and Physical Education: Intermediate/Senior
Philosophy, limitations, curriculum and use of technology.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P83

Science (General): Intermediate/Senior
Teaching science in the intermediate and senior division; examination of Ontario ministry, board and school curriculum documents and other resources.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P84

Visual Arts: Intermediate/Senior
Studio activity, skills and art forms appropriate for students in grades 7-12; course planning and teaching methods for group and individual activities in the classroom.
Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

Note: experience or course work in studio art is a helpful background.

EDUC 8P85

Religious Knowledge: Intermediate/Senior
History and development of religious education as an academic discipline; curriculum for grades 7-12 and methods for

teaching that curriculum.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P86

Science (Biology): Intermediate/Senior

Teaching biology in secondary schools; examination of Ontario Ministry, board and school curriculum documents and other resources.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P87

Science (Chemistry): Intermediate/Senior

Teaching chemistry in secondary schools; examination of Ontario Ministry, board and school curriculum documents and other resources.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P88

History: Intermediate/Senior

Nature of history in the secondary school program emphasizing development of history skills, curriculum design, analysis of subject guidelines from grades 7-12.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P90

International Languages (Spanish): Intermediate/Senior

Theory of and approaches to teaching and learning a second language; methodological approaches involved in teaching Spanish at the Intermediate and Senior levels.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Intermediate/Senior program, and to BA (Honours)/BEd (Intermediate/Senior),

BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8P91

Introduction to the Hodinohsonni Grammar for Teaching

Rudiments of Hodinohsonni grammar and the way it is taught in a school setting emphasizing pronoun and verb morphologies.

Lectures, seminar, 4 hours per session.

Restriction: open to students admitted to the Native Teacher Education Certificate programs.

EDUC 8P93

Introduction to the Hodinohsonni Language Teaching Methods

Introduces active methods of second-language instruction using Hodinohsonni language samples. Student produced peer teaching and language tutoring.

Lectures, seminar, 4 hours per session.

Restriction: open to students admitted to the Native Teacher Education programs.

EDUC 8P94

Materials Development for Language Teaching

Students develop teaching materials suitable to their career settings and consistent with the language methods taught in the program.

Lectures, seminar, 4 hours per session.

Restriction: open to students admitted to the Native Teacher Education programs.

EDUC 8P96

Advanced Languages Teaching Methods

Designed for teachers of advanced-level NSL proficiency. Methods for improving oral fluency, developing formal registers and teaching grammar and literature are demonstrated.

Lectures, seminar, 4 hours per session.

Restriction: open to students admitted to the Native Teacher Education programs.

EDUC 8P97

Advanced Hodinohsonni Grammar for Teaching

Hodinohsonni grammars differ fundamentally from English, and bilingual teachers need to understand the differences. The course uses contrastive analysis to illustrate grammatical difficulties of NSL learners.

Lectures, seminar, 4 hours per session.

Restriction: open to students admitted to the Native Teacher Education Certificate programs.

EDUC 8P98

Instructional Practice

Students apply the methods developed in EDUC 8P99 in a classroom setting. Videotapes of their teaching performance are used for self- and peer-evaluation.

Lab, 40-hours.

Restriction: open to students admitted to the Native Teacher Education Certificate programs.

EDUC 8P99

Intensive Language Teaching Methods

Intensive methods of second language teaching emphasizes high learner involvement in communicative language use. Methods such as total physical response and language experience are demonstrated.

Lectures, seminar, 4 hours per session.

Restriction: open to students admitted to the Native Teacher Education programs.

EDUC 8R00

The Teaching of Electronic Communications Technology (Grade 9 and 10)

May include television production, editing and transmission (airwaves and cable); audio recording and amplification; telephone, facsimile, computer modem and other communications devices. Transmission and receiving of communications signals using radio waves, line-of-sight signals, microwaves, satellites, fibre optics, cable or any other means as part of the communications system.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R01

The Teaching of Live Communications Technology (Grade 9 and 10)

May include photography (moving and still) and stage productions. Lighting, art work, carpentry (set design and construction) and other aspects of the problem solving and design challenges of creating illusions and functional environments for the live communications systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R02

The Teaching of Graphic Communication Technology (Grade 9 and 10)

Print materials, desktop publishing, computer graphics, drafting methods and printing systems may all form part of the graphic communications systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R03

The Teaching of Communications Technology (Grade 11 and 12)

Overview of the communication industry; the technical knowledge and skills required to teach such component areas as television and video production, art, broadcasting, photography, computer communication and print and graphic production at the senior level.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 9G10.

EDUC 8R05

The Teaching of Electronic Communications Technology (Grade 11 and 12)

May include an in-depth study of television production, editing and transmission (airwaves and cable), audio recording and amplification, telephone, facsimile, computer modem and other communications devices. Transmission and receiving of communication signals using radio waves, line-of-sight signals, microwaves, satellites, fibre optics, cable and other means of communication.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R06

The Teaching of Live Communications Technology (Grade 11 and 12)

May include an in-depth study of photography (moving and still) and stage productions. Lighting, art work, carpentry (set design and construction) and other aspects of the problem solving and design challenges of creating illusions and functional environments for the live communications systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R07

The Teaching of Graphic Communication Technology (Grade 11 and 12)

In-depth study of print materials, desktop publishing, computer graphics, drafting methods, printing systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R10

The Teaching of Residential Construction Technology (Grade 9 and 10)

May include house and cottage designs, multi-family dwellings, construction techniques and electrical and water installation, utility systems, sewage and waste

disposal, internal environmental system and rural/urban comparisons.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R11

The Teaching of Commercial Construction Technology (Grade 9 and 10)

May include zoning regulations, stores, gas and service stations, office buildings, farm buildings, construction techniques, utility systems, sewage and waste disposal and internal and external environmental systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R12

The Teaching of Industrial Construction Technology (Grade 9 and 10)

May include zoning regulations, types of buildings, construction techniques, utility systems and sewage and waste disposal systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R13

The Teaching of Recreational Construction Technology (Grade 9 and 10)

Recreational building or facilities construction which may include arenas, sports stadiums, boat storage facilities and docks and marinas.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R14

The Teaching of Custom Woodworking (Grade 9 and 10)

May include a study and practical use of tools and materials associated with fine woodworking, furniture and cabinet making.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R15

The Teaching of Residential Construction Technology (Grade 11 and 12)

May include an in-depth study of house and cottage designs, multi-family dwellings, construction techniques and electrical and water installation, utility systems, sewage and waste disposal, internal environmental system and rural/urban comparisons.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R16

The Teaching of Commercial Construction Technology (Grade 11 and 12)

May include an in-depth study of zoning

regulations, stores, gas and service stations, office buildings, farm buildings, construction techniques, utility systems, sewage and waste disposal and internal and external environmental systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R17

The Teaching of Industrial Construction Technology (Grade 11 and 12)

May include an in-depth study of zoning regulations, types of buildings, construction techniques, utility systems and sewage and waste disposal systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R18

The Teaching of Recreational Construction Technology (Grade 11 and 12)

May include an in-depth study of arenas, sports stadiums, boat storage facilities, docks and marinas.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R19

The Teaching of Technological Design (Grade 11 and 12)

In-depth study of a variety of design processes that may be used in solving any technological challenge or problem. It builds on and forms a continuum with the science and technology programs in grades 7 and 8 and the Integrated Technology program in grade 9.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R20

The Teaching of Design Systems Technology (Grade 9 and 10)

Exposes the candidates to diverse and complex design problems and processes and includes study of a variety of design strategies that may be used to solve any technological problem or challenge.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R21

The Teaching of Process Technology (Grade 9 and 10)

Includes the workshop conversion of a representative product design into a functional product. A knowledge of materials, manipulation and application of machine tools and logical manufacturing processes is required to produce working models and/or prototypes.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R22**The Teaching of Problem-solving Technology (Grade 9 and 10)**

Candidates should be capable of identifying their own design problems and developing optimum solutions independently or as a member of a design and problem-solving group. Much of the program and process planning will require a co-operative and collaborative involvement.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R23**The Teaching of Applications of Technology (Grade 9 and 10)**

Candidates will be provided with opportunities to integrate their own real world experiences with those of their colleagues. This activity will permit the candidates to apply, using theoretical and practical means, a variety of design processes that may be used to solve technological challenges and problems in the areas of communications, construction, hospitality services, manufacturing, personal services and transportation.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R24**The Teaching of Custom Woodworking (Grade 11 and 12)**

May include an in-depth study and practical use of tools and materials associated with fine woodworking, furniture and cabinet making.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R25**The Teaching of Design Systems Technology (Grade 11 and 12)**

In-depth study of a variety of design strategies that may be used to solve any technological problem or challenge.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R26**The Teaching of Process Technology (Grade 11 and 12)**

In-depth study of the workshop conversion of a representative product design into a functional product. Knowledge of materials, manipulation and application of machine tools and logical manufacturing processes is required to produce working models and/or prototypes.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R27**The Teaching of Problem-solving Technology (Grade 11 and 12)**

Candidates identify their own design problems and develop optimum solutions independently or as a member of a design and problem-solving group. Much of the program and process planning require a co-operative and collaborative involvement.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R28**The Teaching of Applications of Technology (Grade 11 and 12)**

Candidates are provided with opportunities to integrate their own real world experiences with those of their colleagues. This activity permits the candidates to apply, using theoretical and practical means, a variety of design processes that may be used to solve technological challenges and problems in the areas of communications, computer, construction, hospitality services, manufacturing, personal services and transportation.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R29**Hospitality Services (Grade 11 and 12)**

In-depth study of teaching strategies and skills required for the planning, operation and development of services for the study of tourism and guiding, travel and accommodation and food preparation and serving, plus other hospitality issues at the senior level.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R30**Tourism (Grade 9 and 10)**

May include wilderness travel, hunting and fishing, heritage attractions, communications and environmental issues.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R31**Travel and Accommodation (Grade 9 and 10)**

May include hotel management, travel booking systems and travel methods.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R32**Food Preparation (Grade 9 and 10)**

May include quantity food preparation, baking, the preparation of fast foods, gourmet

cooking, table serving and restaurant management.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R35**Tourism (Grade 11 and 12)**

Advanced program in tourism and guiding. May include an in-depth study of wilderness travel, hunting and fishing locations and access, heritage attractions, communications systems and environmental issues.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R36**Travel and Accommodation (Grade 11 and 12)**

May include an in-depth study of hotel management, hotel reservation systems, travel booking systems and travel methods.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R37**Food Preparation (Grade 11 and 12)**

May include an in-depth study of quantity food preparation, baking, the preparation of fast foods, gourmet cooking, table serving and restaurant management.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R39**Technology (Grade 11 and 12)**

Overview of strategies for teaching control systems, engineering drafting design, foundry and moulding practice, industrial electronics, metal fabrication and precision machining at the senior level.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R40**The Teaching of Product Design Technology (Grade 9 and 10)**

May include drafting and design processes, statics and dynamics, kinematics and mechanisms, strength of materials, mechanics of materials and structures, and cost analysis and product marketing and sales.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R41**The Teaching of Process and Production Planning Technology (Grade 9 and 10)**

May include conventional and production machine tools, materials handling, control systems including hydraulics, pneumatics,

PLC's, heat treatment of metals, CAD/CAM systems, flow charts, Program Evaluation and Review Techniques (PERT) systems, statistical quality control and product control procedures.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R42

The Teaching of Manufacturing Process Technology (Grade 9 and 10)

May include the cutting (shearing), forming, bending, removal, joining and finishing of solid materials and the chemical, thermal and physical change to liquid and gaseous materials.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R45

The Teaching of Product Design Technology (Grade 11 and 12)

May include an in-depth study of drafting and design processes, statics and dynamics, kinematics and mechanisms, strength of materials, mechanics of materials, and structures, and cost analysis and product marketing and sales.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R46

The Teaching of Process and Production Planning Technology (Grade 11 and 12)

May include an in-depth study of conventional and production machine tools, materials handling, control systems including hydraulics, pneumatics, PLC's, heat treatment of metals, CAD/CAM systems, flow charts, Program Evaluation and Review Techniques (PERT) systems, statistical quality control and product control procedures.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R47

The Teaching of Manufacturing Process Technology (Grade 11 and 12)

May include an in-depth study of the cutting (shearing), forming, bending, removal, joining and finishing of solid materials and the chemical, thermal and physical change to liquid and gaseous materials.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R49

Personal Services (Grade 11 and 12)

Overview of the personal services industry. Teaching strategies and skills required at the

senior level for the planning, operation and development of services for the study of health care, personal grooming, child care and geriatric care.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R50

Health Care Services (Grade 9 and 10)

May include biotechnology, home care, dental care, nursing fundamentals, dietary study and rules, exercise and disease prevention.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R51

Personal Grooming Services (Grade 9 and 10)

May include hair care and styling, make-up and manicures and personal hygiene.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R52

Child Care Services (Grade 9 and 10)

May include prenatal and postnatal care, growth and development, childhood illnesses, parental responsibilities and nutrition.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R53

Geriatric Care Services (Grade 9 and 10)

May include disabilities and diseases, diets and nutrition, exercise, bed care and social contact.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R55

Health Care Services (Grade 11 and 12)

May include an in-depth study of biotechnology, home care, dental care, nursing fundamentals, dietary study and rules, exercise and disease prevention.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R56

Personal Grooming Services (Grade 11 and 12)

May include an in-depth study of hair care and styling, make-up and manicures and personal hygiene.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R57

Child Care Services (Grade 11 and 12)

May include an in-depth study of prenatal and postnatal care, growth and development, childhood illnesses, parental responsibilities and nutrition.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R59

The Teaching of Transportation Technology (Grade 11 and 12)

Overview of the transportation industry. Strategies for teaching motive power and its application to mobile vehicles, including automobiles, aircraft, farm equipment, small engines, water craft and space at the senior level.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R60

The Teaching of Personal Transportation Technology (Grade 9 and 10)

May include bicycles, motorcycles, cars, snowmobiles, recreational vehicles, motor boats, small aircraft and fuel comparisons. Candidates using practical and theoretical means, demonstrate the knowledge, skills and values needed to consider the impact of various vehicles on human/social and environmental systems.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R61

The Teaching of Mass Transit Systems Technology (Grade 9 and 10)

May include the study of commercial aircraft, buses, trains, subways, streetcars, cruise ships, escalators, and elevators.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Technological Education Program.

EDUC 8R62

The Teaching of Freight Transportation Systems Technology (Grade 9 and 10)

May include tractor trailers, freight trains, cargo ships, rocket ships, farm equipment, pipe line and conveyors.

Lectures, seminar, 2 hours per week.

EDUC 8R65

The Teaching of Personal Transportation Technology (Grade 11 and 12)

May include an in-depth study of bicycles, motorcycles, cars, snowmobiles, recreational vehicles, motor boats, small aircraft and fuel

comparisons. Candidates using practical and theoretical means, demonstrate the knowledge, skills and values needed to consider the impact of various vehicles on human/social and environmental systems.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education Program.

EDUC 8R66
The Teaching of Mass Transit Systems Technology (Grade 11 and 12)
May include an in-depth study of commercial aircraft, buses, trains, subways, streetcars, cruise ships, escalators and elevators.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education Program.

EDUC 8R67
The Teaching of Freight Transportation Systems Technology (Grade 11 and 12)
May include an in-depth study of tractor trailers, freight trains, cargo ships, rocket ships, farm equipment, pipelines and conveyors.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education Program.

EDUC 8R70
The Teaching of Computer Technology
Overview of the computer industry; technical knowledge and skills and strategies for the computer services industry; problem solving, logic gate functions and programming constructs including an examination of computer hardware and control systems from an engineering and programming perspective.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R71
The Teaching of Computer Engineering Technology (Grade 9 and 10)
Jey computer components and peripherals, logic gates, fundamental programming concepts, internal numbering and character representation systems, and operating systems and networks.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R72
The Teaching of Computer and Information Technology (Grade 9 and 10)
Computer science concepts including software design, fundamental programming constructs of sequence, selection and repetition; functions of internal and external components; relationships among networks, operating systems, and applications of software and their uses; evolution of

programming languages.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R73
The Teaching of Computer Engineering Technology (Grade 11 and 12)
May include an in-depth study of the function of key computer components and peripherals, logic gates, fundamental programming concepts, internal numbering and character representation systems, and operating systems and networks; related career opportunities.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R74
The Teaching of Computer and Information Technology (Grade 11 and 12)
May include an in-depth study of computer science concepts including software design; fundamental programming constructs of sequence, selection and repetition; the functions of internal and external components; the relationships among networks, operating systems, and application of software and their uses; evolution of programming languages; and related career opportunities.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R76
The Teaching of Green Industries (Grade 9 and 10)
Study of one or more of Arboriculture, Agriculture, Agribusiness, Forestry, Floristry, Horticulture Science/Management, Landscape Construction/Maintenance, Landscaping Design and Management, LEED construction and associated topics and industries.
Lectures, seminar, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R77
The Teaching of Green Industries (Grade 11 and 12)
In-depth study of one or more of Arboriculture, Agriculture, Agribusiness, Forestry, Floristry, Horticulture Science/Management, Landscape Construction/Maintenance, Landscaping Design and Management, LEED construction and associated topics and industries.
Lectures, seminars, 2 hours per week.
Restriction: open to students admitted to the Technological Education program.

EDUC 8R98
Technology and Design in Education (Grade 11 and 12)
Development of technological education in Ontario, Canada and the world. Examining programs and systems in place around the globe. Includes an overview of technology and its application relative to design, development and production. Areas include information technology, communication, fabrication, design processes, engineering concepts, and the processing of natural and man-made materials. Emphasis is on problem solving, and on student-centred and activity-based learning.
Lectures, seminar, lab/shop, 2 hours per week.
Restriction: open to students admitted to the Technological Education Program.

EDUC 8R99
Teacher Technical Proficiency Assessment (Grade 9 to 12)
Knowledge and skills in broad based technologies, emphasizing supervision and maintaining a safe and productive environment both within and outside areas of expertise.
Lectures, seminar, lab/shop, 2 hours per week.
Restriction: open to students admitted to the Technological Education Program.

EDUC 8Y04
Current Trends and Issues in Special Education
Current legislation and recent developments related to the education of exceptional students.
Lectures, seminar, practicum, 2 hours per week.
Restriction: open to students admitted to Ontario Certificate of Qualification Native Teacher Education, Teacher Education and Technological Studies Education programs, and to BA CHYS (Honours)/BEd (Primary/Junior), BPhEd (Honours)/BEd (Junior/Intermediate) majors with a minimum of 4.0 overall credits, BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BA (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8Y05
Professionalism, Law and the Ontario Teacher
Key educational issues, responsibilities and authority in the organization of the public school system in Ontario through study of statutes, regulations and professional codes of ethics.
Lectures, seminar, practicum, 2 hours per week.
Restriction: open to students admitted to Ontario Certificate of Qualification Native Teacher Education, Teacher Education and

Technological Studies Education programs, and to BA CHYS (Honours)/BEd (Primary/Junior), BPhEd (Honours)/BEd (Junior/Intermediate) majors with a minimum of 4.0 overall credits, BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BA (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

EDUC 8Y15

Environmental/Outdoor Education

Approaches to and philosophies of outdoor/environmental education and its development. Application of skills and knowledge in curricular decision-making processes.

Lectures, seminar, 2 hours alternate weeks.

Restriction: open to students admitted to Primary/Junior, Junior/Intermediate and Intermediate/Senior programs, and to BA CHYS (Honours)/BEd (primary/Junior) majors with a minimum of 15.0 overall credits, BPhEd (Honours)/BEd (Junior/Intermediate) majors, BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Note: course not required for Outdoor Education teaching placement. An additional fee is levied for this course. This course is an option for credit.

EDUC 8Y24

Teaching and Learning with Technology (Junior/Intermediate)

Integrated approach to teaching with computer technology across the curriculum at the junior and intermediate levels focusing on instructional strategies appropriate to the expectations in the Ontario curriculum.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Junior/Intermediate program, and to BA (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc (Honours)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y28.

EDUC 8Y26

Junior/Intermediate Health and Physical Education

Focus on the implementation at the Ontario health and physical education curriculum in junior and intermediate grades. Fundamental movement skills, active participation, concepts of healthy living, appropriate teaching methods and a philosophical orientation which fosters learning by all.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Junior/Intermediate program, and to BA (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc (Honours)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8P22.

EDUC 8Y27

Science and Technology (Junior/Intermediate)

Overview of science and technology and its practical application within school settings, including scientific literacy, the Ontario Grades 1-8 Science and Technology curriculum, the nature of science, theoretical foundations, lesson and unit planning, inclusive science education, and cross-curricular integration and relationships with society and the environment.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Junior/Intermediate program, and to BA (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc (Honours)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits.

Note: for teacher candidates with a non-science specialization.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y28.

EDUC 8Y29

Junior/Intermediate Social Studies, History and Geography

Teaching strategies appropriate to the Ontario curriculum. Key social science concepts; inquiry and communication skills to examine and understand communities, various heritages and citizenship emphasizing Canadian identity and democratic values. History as a preparation for life in a complex society. Geography as the study of the interdependency of people and their environment.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to Junior/Intermediate program, and to BA (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8P22.

EDUC 8Y34

Teaching and Learning with Technology (Primary/Junior)

Integrated approach to teaching with

computer technology across the curriculum at the primary and junior levels focusing on instructional strategies appropriate to the expectations in the Ontario curriculum.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Primary/Junior programs, and to BA CHYS (Pass)/BEd (Primary/Junior) and BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits and BPhEd (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y38.

EDUC 8Y36

Primary/Junior Health and Physical Education

Focus on the implementation of the Ontario health and physical education curriculum in primary and junior grades. Fundamental movement skills, active participation, concepts of healthy living, appropriate teaching methods and a philosophical orientation which fosters learning by all.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Primary/Junior programs, BA CHYS (Pass)/BEd (Primary/Junior), BA CHYS (Honours)/BEd (Primary/Junior) and BPhEd (Honours)/BEd (Primary/Junior).

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8P32.

EDUC 8Y37

Science and Technology (Primary/Junior)

Introduction to basic concepts, skills and strategies required for teaching science at the primary/junior school level, including the nature of science, scientific literacy, learning theories, the Ontario Grades 1-6 Science and Technology curriculum, inquiry-based instruction, lesson and unit planning, inclusive science education and cross-curricular integration.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Primary/Junior programs, and to BA CHYS (Pass)/BEd (Primary/Junior) and BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y38.

EDUC 8Y39

Primary/Junior Social Studies

Teaching strategies appropriate to the Ontario curriculum emphasizing knowledge, skills

and attitudes for examining and understanding communities, various heritages and citizenship. Key social science concepts; inquiry and communication skills focusing on Canadian identity and democratic values.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Native Teacher Education and Primary/Junior programs, and to BA CHYS (Pass)/BEd (Primary/Junior), BA CHYS (Honours)/BEd (Primary/Junior) and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8P32.

EDUC 8Y50-8Y60

Special Topics in Teacher Education

Topics will vary on the basis of specific areas of instructional expertise and candidate interest.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Native Teacher Education Programs, Teacher Education and Technological Studies Education Programs, and to BA CHYS (Honours)/BEd(Primary/Junior), BPhEd (Honours)/BEd (Junior/Intermediate) and BSc (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

Note: these courses are options for credit.

EDUC 8Y61

Classroom Dynamics: Teaching and Learning

Basic principles of child development and learning that guide instructional decision making and classroom management. Topics may include motivation, social contexts of learning, individual differences, student thinking and problem solving, family, school, community partnerships.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Qualification Primary/Junior and Junior/Intermediate programs.

EDUC 8Y63

Introduction to Assessment and Evaluation
Methods for assessment and evaluation of student growth.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Primary/Junior and Junior/Intermediate programs.

Completion of this course will replace previous assigned grade and credit obtained in EDUC 8Y50.

EDUC 8Y96

Religious Education (Roman Catholic)

Examination of the reality of Christian belief and behaviour specifically as it pertains to the curriculum and instruction process as found in the Canadian Catechism program. Designed to implement the Guidelines in Preparation of Students to Teach Religion in Catholic Schools approved by the Ontario English Catholic Teachers Association and the Ontario Separate School Trustees Association.

Lectures, seminar, 2 hours per week.

Restriction: open to students admitted to the Ontario Certificate of Native Teacher Education, Teacher Education programs, and to BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits, BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BA/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd/BEd (Intermediate/Senior) and BSc/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

Note: this course is not a substitute for Part I of the OECTA/OSSTF Religion course. A materials fee will be charged. This course is an option for credit.

EDUC 8Y97

Religious Education (non-Roman Catholic)
Religious education in public, private, or faith-based schools. Understanding the world view of students from a mosaic of religious traditions and helping students understand and respect these traditions, and the role of religion in the experiences of being human.

Lectures, seminar, 2 hours alternate weeks.

Restriction: open to students admitted to the Ontario Certificate of Native Teacher Education, Teacher Education programs, and to BA CHYS (Honours)/BEd (Primary/Junior) majors with a minimum of 15.0 overall credits, BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BA/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd/BEd (Intermediate/Senior) and BSc/BEd (Intermediate/Senior) majors with a minimum of 20.0 overall credits.

Note: this course is an option for credit.

Education - Concurrent BA (Honours)/BEd (Intermediate/Senior)

Administrative Director, Concurrent Education Programs
Rosamund Battye

Associate Administrative Director, Concurrent Education Programs
Sandra Regier

Faculty Representatives
John Lye (Faculty of Humanities), Tony DiPetta (Faculty of Education)

General Information

Administrative Assistant
Mona Lavoie

905-688-5550, extension 4226
Welch Hall 8A
<http://concurrent.ed.brocku.ca>

The Faculties of Humanities and Social Sciences and the Faculty of Education cooperate in offering a concurrent five-year program combining a BA (Honours) degree and a BEd degree for students interested in teaching at the Intermediate/Senior level (grades 7-12).

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director of Concurrent Education Programs and the Chair, Department of Teacher Education. Students must maintain a minimum 75 percent cumulative overall average each year in all undergraduate academic grade-marked courses.

Each student must choose a Major from: Dramatic Arts, English Language and Literature, French, Geography, History and Visual Arts, as these areas are the teachable subjects available from co-operating departments in the Faculties of Humanities and Social Sciences at Brock at the Intermediate/Senior level (grades 7-12.). The selection of the second teachable subject must be declared through the Office of Concurrent Education Programs prior to registration for year 2. A maximum of 2.0 first year credits can be included in a second teachable subject. Students

must complete a second teachable subject (minimum 3.0 credits) prior to starting Year 5. A minimum of 10.5 academic undergraduate credits in Humanities and Social Sciences must be completed for a BA Honours degree to be awarded.

Teacher Education courses are credited toward the BEd while the remaining courses are credited to the BA. For this reason, a student who transfers out of the BA/BEd program will not have credit in Teacher Education courses applied to an undergraduate degree. Students should note that credits for the concurrent BA(Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Undergraduate and Teacher Departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Students must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year.

Terms of study at another institution cannot be accommodated during the Fall/Winter sessions.

Successful graduates of the five-year program will receive a Bachelor of Arts (Honours) degree and a Bachelor of Education degree. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St Catharines campus in order to secure school placements aligned with teachable subjects. Students are responsible for their own transportation for practice teaching and other activities related to the program.

This is a limited enrolment program. Although admissions will be primarily based on grades, other criteria, such as balance across teachable disciplines or teaching areas of high need may be used in the selection process in any particular year. A Profile Questionnaire is required. Admission is not guaranteed by attainment of the minimum requirements.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the BA (Honours)/BEd (Intermediate/Senior) Program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program must replicate the 5.0 credit concurrent program requirements; the secondary school English and Mathematics program admission requirements must be met. A Profile Questionnaire is required. Application forms and the Profile are available on the Concurrent Education web site from April 1. The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a limited enrolment program and admission is not guaranteed by attainment of the minimum requirements.

Language Requirement for Humanities Majors

Students in the Humanities are required to complete one credit in a language other than English. Where half credit courses are used to satisfy the requirement, both half credits must be in the same language.

Program Notes

1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.

2. Practice teaching may have to be scheduled in May and June of year 5.

3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.

4. In developing teachable subjects, where selections are possible, students are encouraged to consult with the departments to choose courses relevant to secondary school curriculum. Students must develop a major teachable subject, as prescribed by the program in one of the following subject areas as listed:

DRAMATIC ARTS - Course credits in creativity-based practical work with a reflective component are required. A maximum of 1.0 credit in theory-based courses, history of theatre/drama/dramatic literature.

ENGLISH (first language) - A minimum of 1.0 credit in English literature/poetry. At least 1.0 credit in Canadian content preferred.

FRENCH (second language) - A minimum of 2.0 credits must be in grammar/composition, both of which must be given in French. A maximum of 1.0 credit in translation.

GEOGRAPHY - A minimum of 0.5 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

HISTORY - A minimum of 1.0 credit in Canadian history. A maximum of 1.0 credit in history of art. A maximum of 1.0 credit in Greek/Roman civilization.

VISUAL ARTS - Studio-based course credits are required. A maximum of 1.0 credit from

film, photography, architecture, and fashion, or history of art.

Students must achieve a 75 percent average in a minimum 5.0 credits of the major teachable subject. For general guidelines on selecting courses for teachable subjects refer to Admissions under Teacher Education.

5. Students must choose the second teachable subject area from: Dramatic Arts, English (first language), French (second language), Geography, History, Mathematics, Health and Physical Education, Science-Biology, Chemistry, General, Physics, Visual Arts. Students must achieve a 70 percent average in the minimum 3.0 credits for a second teachable subject. A maximum of 2.0 first year credits can be included.

6. FREN and MLLC courses noted as given in English may be included in the French program. No more than two and one-half credits in such courses may be included.

7. Students studying French as a first or second teachable subject complete Year 5 at the Hamilton campus.

8. Students normally take Geography courses from Group A (see Geography department) and they may select courses from Group B and C. A minimum of 10.5 academic undergraduate credits in Humanities and Social Sciences must be completed for a BA Honours degree to be awarded.

9. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Dramatic Arts

Year 1

- DART 1F93, 1F95, 1P97 and 1P99
- CHYS 1F90
- one Sciences context credit

Year 2

- DART 2F94, 2P01 and 2P02
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

Year 3

- DART 3F94
- one credit from DART2F50, 2P70, 3P03, 3P04, 3P05, 3P08
- EDUC 8P08
- one credit in second teachable subject (see program note 5)
- one language credit (see language requirement)
- one elective credit

Year 4

- Two credits from DART 3F50, 3F76, 3F77, 3F78, 3P53, 3P54, 4P91
- DART 4F90
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P73, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

English

One credit must be taken from each of A, B and C list of ENGL courses (consult the English entry for a listing of List Courses)

Year 1

- One of ENGL 1F91, 1F95, 1F97
- CHYS 1F90
- one Sciences context credit
- one credit in second teachable subject (see program note 5)
- one elective credit

Year 2

- Two ENGL credits numbered 2(*alpha*)00 or above
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

Year 3

- EDUC 8P08
- two ENGL credits numbered 2(*alpha*)00 or above
- one ENGL credit numbered 2(*alpha*)90 or above
- one language credit (see language requirement)
- one elective credit

Year 4

- One ENGL credit 2(*alpha*)90 or above
- two ENGL credits 4(*alpha*)00 or above
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P74, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

French

Year 1

- FREN 1F90
- CHYS 1F90
- one Sciences context credit
- one credit in second teachable subject (see program note 5)
- one elective credit

Year 2

- FREN 2F00 and 2F03
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

Year 3

- FREN 3P03
- one FREN or MLLC credit numbered 2(alpha)00 or above
- three and one-half FREN or MLLC credits numbered 2(alpha)90 or above (see program note 6)
- EDUC 8P08

Year 4

- FREN 4P03
- EDUC 8P02 and 8P19
- two and one-half FREN or MLLC credits numbered 3(alpha)90 or above (see program note 6)
- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8F76, 8L09, 8Y04 and 8Y05 (see program notes 2 and 7)
- one of EDUC 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

Geography

Year 1

- GEOG 1F90 and 1F91
- CHYS 1F90
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99
- one credit in second teachable subject (see program note 5)

Year 2

- GEOG 2P03, 2P06, 2P07, 2P10 and 2P12
- one of GEOG 2P01, 2P02, 2P13
- CHYS 2F10 (see program note 1)
- EDUC 1F95

Year 3

- GEOG 3P57
- two and one-half GEOG credits numbered 2(alpha)90 or above (see program note 9)
- EDUC 8P08
- one credit in second teachable subject (see program note 5)
- one elective credit

Year 4

- One GEOG credit numbered 2(alpha)90 or above (see program note 9)
- two GEOG credits numbered 3(alpha)90 or above (see program note 9)
- one credit in second teachable subject (see program note 5)
- EDUC 8P02 and 8P19

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P77, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

History

Year 1

- One of HIST 1F95, 1F96, HIST 1P98 and 1P99
- CHYS 1F90
- one Sciences context credit
- one language (see language requirement)
- one credit in second teachable subject (see program note 5)

Year 2

- Two HIST credits numbered 2(alpha)00 or above
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

Year 3

- One HIST credit numbered 2(alpha)00 or above
- three HIST credits 2(alpha)90 or above
- EDUC 8P08
- one elective credit

Year 4

- One HIST credit numbered 3(alpha)90 or above
- two HIST credits numbered 4(alpha)00 or above
- EDUC 8P02 and 8P19

- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P88, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P90

Visual Arts

Year 1

- VISA 1P93 and 1P94 or VISA 1P96 and 1P97
- VISA 1Q98 and 1Q99
- CHYS 1F90
- one Sciences context credit
- one credit in second teachable (see program note 5)

Year 2

- VISA 1P93 and 1P94 or VISA 1P96 and 1P97 (not taken in Year 1)
- one credit from VISA 2P02, 2P03, 2P26, 2P27
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

Year 3

- VISA 2P50 and 2P51 or VISA 2P90 and 2P91
- two VISA credits numbered 2(alpha)90 or above
- EDUC 8P08
- one language credit (see language requirement)
- one elective credit

Year 4

- One of VISA 2P50 and 2P51, VISA 2P90 and 2P91, VISA 3P22 and 3P23, VISA 3P24 and 3P25
- two VISA credits numbered 3(alpha)90 or above
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P84, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P86, 8P87, 8P88, 8P90

Description of Courses

See relevant calendar entry for course descriptions.

Education - Concurrent BA Child and Youth Studies (Honours)/BEd (Primary/Junior)

Administrative Director, Concurrent Education Programs

Rosamund Battye

Associate Administrative Director, Concurrent Education Programs

Sandra Regier

Faculty Representatives

Sharon Abbey (Faculty of Education), Thomas O'Neill (Faculty of Social Sciences)

General Information

Administrative Assistant

Mona Lavoie

905-688-5550, extension 4226

Welch Hall 8A

<http://www.brocku.ca/childandyoungstudies/>

<http://concurrent.ed.brocku.ca>

The Department of Child and Youth Studies and the Faculty of Education co-operate in offering a concurrent five-year program combining an (Honours) Bachelor of Arts (BA) degree with a Bachelor of Education (BEd) for students interested in teaching at the Primary/Junior level (grades K-6).

Students in the program must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director. Students must maintain a minimum 75 percent cumulative overall average each year in all academic grade-marked courses.

Application forms for the Child and Youth Studies (CHYS) BA(Honours)/BEd program are available on the Concurrent Education website from April 1. The forms must be completed and returned to the office by June 1. Late applications will not be accepted. Students in the CHYS BA(Honours)/BEd program should consult the Administrative Director of Concurrent Education Programs regarding program requirements and

continuance in the program. For further information about the CHYS BA(Honours)/BEd program contact the Office of Concurrent Education Programs.

Because the CHYS BA(Honours)/BEd program integrates teacher education courses with academic courses, the student should note that the Teacher Education courses are credited toward the BEd while the remaining courses are credited to the BA. For this reason, a student who transfers out of the CHYS BA(Honours)/BEd program may not have credit in Teacher Education courses applied to an undergraduate degree. Students should note that credits for the concurrent CHYS BA(Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Graduate and Undergraduate Studies in Education, and Teacher Education Departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Terms of study at another institution cannot be accommodated during Fall/Winter sessions.

This is a limited enrolment program. Admission is not guaranteed by attainment of the minimum requirements.

Students must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St Catharines campus in order to secure school placements. Students are responsible for their own transportation for practice teaching and other activities related to the program.

Successful graduates of the CHYS BA (Honours)/BEd program will receive a Bachelor of Arts Honours degree and a Bachelor of Education degree. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the Child and Youth Studies BA (Honours)/BEd program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Students who have completed an appropriate College of Arts and Technology two-year diploma must have a minimum 85 percent cumulative average for consideration for the BA Child and Youth Studies (Honours)/BEd Program and may receive a maximum of three transfer credits if they are admitted to Brock; students who have completed a Child and Youth Worker diploma may receive four transfer credits.

Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program

must replicate the 5.0 credit concurrent program requirements; the secondary school English and Mathematics program admission requirements must be met. A Profile Questionnaire is required. Application forms and the Profile are available on the Concurrent website from April 1. The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a limited enrolment program and admission is not guaranteed by attainment of the minimum requirements. Students must complete the academic admission requirements for the Primary/Junior Teacher Education BEd degree before completing the Child and Youth Studies BA (Honours)/BEd program.

Candidates must have completed 4U/M courses or university or university/college preparation courses in Canadian geography and Canadian history (or similar courses emphasizing Canadian content), mathematics, science and English. For those candidates who have not completed these courses, the following courses or equivalents will be accepted: one-half university Canadian geography credit, GEOG 2P50 is recommended; CANA IF91, HIST 1F96, or one-half university Canadian history credit. Students are also encouraged to take arts and physical education courses.

Program Notes

1. Students are encouraged to use elective credits (including context credits) to take courses relevant to Education.
2. Students may be considered by the Child and Youth Studies Department on an individual basis for the individual thesis or group thesis options in Year 4.
3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.
4. Practice teaching may have to be scheduled in May and June of year 5.
5. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- CHYS 1F90
- EDUC 1F95
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or one Sciences context credit

Year 2

- CHYS 2F10, 2P35 and 2P38
- MATH 1F92 or PSYC 2F23
- the Humanities context credit or Sciences context credit not taken in year 1
- one elective credit (see program note 1)

Year 3

- CHYS 3P10, 3P15 and 3P50
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P26, 3P35, 3P43, 3P47, 3P60
- one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P44
- one of EDUC 2F01, 3F00, 3F01
- EDUC 3P40
- EDUC 8P15
- one-half elective credit (see program note 1)

Year 4

- One-half CHYS credits numbered 3(alpha)90 to 4(alpha)99
- two CHYS credits numbered 4(alpha)00 to 4(alpha)99 (see program note 2)
- EDUC 4P05 and 4P24
- EDUC 8P17
- one elective credit

Year 5

- EDUC 4P04
- EDUC 8D09, 8P16, 8P30, 8P31, 8P33, 8Y04, 8Y05, 8Y34, 8Y36, 8Y37 and 8Y39

Pass Program

Year 3

- Year 3 is now closed

Year 4

- EDUC 8F08
- EDUC 8D09, 8P30, 8P31, 8Y34, 8Y36, 8Y37 and 8Y39
- one elective credit (see program note 1)

Description of Courses

See relevant calendar entry for course descriptions.

Education - Concurrent BA Integrated Studies (Honours)/BEd (Junior/Intermediate)

Administrative Director, Concurrent Education Programs

Rosamund Battye

Associate Administrative Director, Concurrent Education Programs

Sandra Regier

Faculty Representatives

John Lye (Faculty of Humanities), Ann-Marie DiBiase (Faculty of Education)

General Information

Administrative Assistant

Mona Lavoie

905-688-5550, extension 4226

Welch Hall 8A

<http://concurrent.ed.brocku.ca>

The Faculties of Humanities and Social Sciences, and the Faculty of Education cooperate in offering a concurrent five-year program combining a Bachelor of Arts (BA) (Honours) degree in Integrated Studies with a Bachelor of Education (BEd) degree for students interested in teaching at the Junior/Intermediate level (grades 4-10) emphasizing elementary school (grades 4-8).

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director of Concurrent Education Programs and the Chair, Department of Teacher Education. Students must maintain a minimum 75 percent cumulative overall average each year in all undergraduate academic grade-marked courses.

Each student must choose a teachable subject from one of Dramatic Arts, English (first language), French (second language), Geography, History, Mathematics, Music (vocal), Science - General and Visual Arts. A minimum of 3.0 credits is required in a teachable subject, a Minor is recommended, and students are encouraged to consult with

the departments to select courses relevant to elementary school education. The selection of the teachable subject must be declared through the Office of Concurrent Education Programs prior to registration for year 2. Students must complete a minimum of 3.0 credits in the declared teachable subject, with a minimum 75 percent average. A minimum of 10.5 academic undergraduate credits in Humanities and Social Sciences must be completed for a BA Honours degree to be awarded.

Teacher Education courses are credited toward the BEd while the remaining courses, including the Undergraduate Education courses, are credited to the BA. For this reason, a student who transfers out of the BA/BEEd program will not have credit in Teacher Education courses applied to an undergraduate degree. Students should note that credits for the concurrent BA Integrated (Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Undergraduate and Teacher Education Departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Students must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year.

Terms of study at another institution cannot be accommodated during Fall/Winter sessions.

Successful graduates will receive a Bachelor of Arts (Honours) degree in Integrated Studies and a Bachelor of Education degree. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St Catharines campus in order to secure school placements aligned with teachable subjects. Students are responsible for their own transportation for practice teaching and other activities related to the program.

This is a limited enrolment program. Although admissions will be primarily based on grades, other criteria, such as balance across teachable

disciplines or teaching areas of high need may be used in the selection process in any particular year. A Profile Questionnaire is required. Admission is not guaranteed by attainment of the minimum requirements.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
 2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
 3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
 4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.
- Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the BA Integrated Studies (Honours)/BEd (Junior/Intermediate) Program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program must replicate the 5.0 credit concurrent program requirements; the secondary school English and Mathematics program admission requirements must be met. A Profile Questionnaire is

required. Application forms and the Profile are available on the Concurrent Education web site from April 1. The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a limited enrolment program and admission is not guaranteed by attainment of the minimum requirements.

Students must complete the academic admission requirements for the Junior/Intermediate Teacher Education BEd degree before completing the BA Integrated Studies (Honours)/BEd program as follows: 4U/M courses or university or university/college preparation courses in Canadian geography and Canadian history (or similar courses emphasizing Canadian content), mathematics, science and English. For those students who have not completed these courses before attending Brock, the following courses or equivalents will be accepted: one-half university credit in Canadian geography, GEOG 2P50 is recommended; CANA 1F91, HIST 1F96 or one-half university credit in Canadian history. Students are also encouraged to take arts and physical education courses.

Program Notes

1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.
2. Practice teaching blocks are completed in elementary schools, grades 4-8, and may have to be scheduled in May and June of year 5.
3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.
4. To develop a teachable subject, students are encouraged to consult with the departments to choose courses relevant to elementary school curriculum.
5. Students must develop a teachable subject (a minimum of 3.0 credits) in any one of the following subject areas listed:

DRAMATIC ARTS - Course credits in creativity-based practical work with a reflective component are required. A maximum of 1.0 credit in theory-based courses, history of theatre/drama/dramatic literature. **ENGLISH** (first language) - A minimum of 1.0 credit in English literature/poetry.

FRENCH (second language) - 2.0 credits must be in grammar/composition, both of which must be given in French. Students with a declared teachable subject in French are required to complete EDUC 8P13 in the final year. A maximum of 1.0 credit in translation.

GEOGRAPHY - A minimum of 0.5 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

HISTORY - A minimum of 1.0 credit in Canadian history. A maximum of 1.0 credit in history of art. A maximum of 1.0 credit in Greek/Roman civilization.

MATHEMATICS - A maximum of 1.0 credit in statistics.

MUSIC (vocal) - A maximum of 1.0 credit from history of music.

SCIENCE-GENERAL - 2.0 credits in one subject must be from Biology, Chemistry or Physics (including Astronomy). The remaining 1.0 credit may be from one of these subjects not used or from Earth Sciences or Environmental Science.

VISUAL ARTS - Studio based course credits are required. A maximum of 1.0 credit from film, photography, architecture, fashion, or history of art. For general guidelines on selecting courses for teachable subjects refer to Admissions under Teacher Education.

6. Students must complete one credit in a language other than English. Where half credit courses are used to satisfy the requirement, both half credits must be in the same language.

7. APCO 1P01 and 1P50 are recommended as courses in applied computing relevant to students in concurrent education.

8. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- CHYS 1F90
- EDUC 1F95
- one credit from CANA 1F91, DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10,

1F50, VISA 1Q98, 1Q99

- one credit in Junior/Intermediate teachable subject or elective (see program notes 4 and 5)
- one Sciences context credit

Year 2

- CHYS 2F10 (see program note 1)
- one APCO, COSC or MATH credit (see program note 7)
- EDUC 2P65
- one credit in Junior/Intermediate teachable subject (see program notes 4 and 5)
- one and one-half elective credits

Year 3

- CHYS 3P74
- EDUC 3F00 and 3P45
- EDUC 8P15
- one credit in Junior/Intermediate teachable subject (see program notes 4 and 5)
- one language credit (see program note 6)
- one elective credit

Year 4

- EDUC 4P05 and 4P25
- EDUC 8P18
- three and one-half elective credits

Year 5

- EDUC 4P02
- EDUC 8D09, 8P23, 8P21, 8P20, 8P16, 8Y04, 8Y05, 8Y24, 8Y26, 8Y27 and 8Y29 (see program note 2)

Description of Courses

See relevant calendar entry for course descriptions.

Education - Concurrent BPhEd (Honours)/BEd (Intermediate/Senior)

Administrative Director, Concurrent Education Programs

Rosamund Battye

Associate Administrative Director, Concurrent Education Programs

Sandra Regier

Faculty Representatives

Ken Lodewyk (Faculty of Applied Health Sciences), Anne Elliott (Faculty of Education)

General Information

Administrative Assistant

Mona Lavoie

905-688-5550, extension 4226

Welch Hall 8A

<http://concurrent.ed.brocku.ca>

<http://fahs.brocku.ca/pekn>

The Faculty of Applied Health Sciences and the Faculty of Education co-operate in offering a concurrent five-year program combining a Bachelor of Physical Education (BPhEd) (Honours) degree and a Bachelor of Education (BEd) degree for students interested in teaching at the Intermediate/Senior level (grades 7-12).

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director of Concurrent Education Programs and the Chair, Department of Teacher Education. Students must maintain a minimum 75 percent cumulative overall average each year in all undergraduate academic grade-marked courses. Students must achieve a 75 percent average in a minimum of 5.0 credits in Health and Physical Education courses.

Selection of a second teachable subject must be declared through the Office of Concurrent Education Programs prior to registration for year 2. A maximum of 2.0 first year credits can be included in a second teachable subject. Students must complete the second teachable subject (minimum 3.0 credits) prior to starting Year 5.

Teacher Education courses are credited toward the BEd while the remaining courses are credited to the BPhEd. For this reason, a student who transfers out of the BPhEd (Honours)/BEd program will not have credit in Teacher Education courses applied to an undergraduate degree. Students should note that credits for the concurrent BPhEd (Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Undergraduate and Teacher Education Departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Students must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year.

Terms of study at another institution cannot be accommodated during the Fall/Winter sessions.

Successful graduates will receive a Bachelor of Physical Education (Honours) degree and a Bachelor of Education degree. The Department of Physical Education and Kinesiology is accredited through the Canadian Council of University Physical Education and Kinesiology Administrators. Students are strongly recommended to take an emergency First Aid/CPR course. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St Catharines campus in order to secure school placements aligned with teachable subjects. Students are responsible for their own transportation for practice teaching and other activities related to the program.

This is a limited enrolment program. Although admissions will be primarily based on grades, other criteria, such as balance across teachable disciplines or teaching areas of high need may be used in the selection process in any particular year. A Profile Questionnaire is required. Admission is not guaranteed by attainment of the minimum requirements.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the BPhEd (Honours)/BEd (Intermediate/Senior) Program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program must replicate the 5.0 credit concurrent program requirements; the secondary school Biology, English and Mathematics program admission requirements must be met. A Profile Questionnaire is required. Application forms and the Profile are available on the Concurrent Education web site from April 1. The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a limited enrolment program and admission is not

guaranteed by attainment of the minimum requirements.

Program Notes

1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.
2. Practice teaching may have to be scheduled in May and June of year 5.
3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.
4. Students must choose the second teachable subject area from: Dramatic Arts, English (first language), French (second language), Geography, History, Mathematics, Science-Biology, Chemistry, General, Physics, Visual Arts. The choice of second teachable subject may be limited given the prescriptive requirements of a BPhEd degree. Students must achieve a 70 percent average in the minimum 3.0 credits for a second teachable subject. A maximum of 2.0 first year credits can be included. Clarification of the following teachable subjects:

DRAMATIC ARTS - Course credits in creativity-based practical work with a reflective component are required. A maximum of 1.0 credit in theory-based courses, history of theatre/drama/dramatic literature dance.

ENGLISH (first language) - A minimum of 1.0 credit in English literature/poetry.

FRENCH (second language) - 2.0 credits must be in grammar, composition, both of which must be given in French. A maximum of 1.0 credit in translation.

GEOGRAPHY - A minimum of 0.5 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

HISTORY - A minimum of 1.0 credit in Canadian history. A maximum of 1.0 credit in history of art. A maximum of 1.0 credit in Greek/Roman civilization.

MATHEMATICS - A maximum of 1.0 credit in statistics.

SCIENCE - BIOLOGY - A maximum of 1.0 credit in Anatomy, Physiology, Biochemistry or Biomechanics.

SCIENCE - CHEMISTRY - Biochemistry courses may be accepted.

SCIENCE - GENERAL - 2.0 credits in one subject must be from Biology, Chemistry or Physics (including Astronomy). The remaining 1.0 credit may be from one of these subjects not used or from Earth Sciences or Environmental Science.

SCIENCE - PHYSICS - All 3.0 credits must be in Physics related to: Forces and Motion; Energy, Work, Power, Matter and Energy; Waves-Light and Sound; Electricity, Magnetism, Gravitation; Hydraulic and Pneumatic Systems. A maximum of 1.0 credit in Astronomy.

VISUAL ARTS - Studio-based course credits are required. A maximum of 1.0 credit from film, photography, architecture, fashion or history of art. For general guidelines on selecting courses for teachable subjects refer to Admissions under Teacher Education.

5. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- PEKN 1P90 and 1P93
- CHYS 1F90
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99
- one credit in second teachable subject (see program note 4)
- one Sciences context credit

Year 2

- PEKN 2P00, 2P04, 2P05, 2P09, 2P41 and 2P84
- CHYS 2F10 (see program note 1)
- EDUC 1F95

Year 3

- PEKN 2P08, 2P90, 2P91, 2P92, 2P95 and 3P32
- one of PEKN 2P03, 2P06, RECL 3P26
- PEKN 3P00 or 4P00
- EDUC 8P08
- one credit in second teachable subject (see program note 4)

Year 4

- PEKN 3P10, 3P93 and 4P32

- one of PEKN 3P13, 3P91, 4P04
- one PEKN credit numbered 3(*alpha*)90 or above
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program note 4)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P82, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

Description of Courses

See relevant calendar entry for course descriptions.

Education - Concurrent BPhEd (Honours)/BEd (Junior/Intermediate)

Administrative Director of Concurrent Education Programs

Rosamund Batty

Associate Administrative Director, Concurrent Education Programs

Sandra Regier

Faculty Representatives

Nancy Francis (Faculty of Applied Health Sciences), Anne Elliott (Faculty of Education)

General Information

Administrative Assistant

Mona Lavoie

905-688-5550, extension 4226

Welch Hall 8A

<http://concurrent.ed.brocku.ca>

<http://fahs.brocku.ca/pekn>

The Department of Physical Education and Kinesiology and the Faculty of Education cooperate in offering a concurrent five-year program combining a Bachelor of Physical Education (BPhEd) (Honours) degree with a Bachelor of Education (BEd) for students interested in teaching at the Junior/intermediate level (grades 4-10) emphasizing elementary school (grades 4-8).

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director of Concurrent Education Programs and the Chair, Department of Teacher Education. Students must maintain a 75 percent cumulative overall average each year in all academic grade-marked courses. Students are strongly recommended to take an emergency First Aid/CPR course.

Because the BPhEd (Honours)/BEd program integrates teacher education courses with academic courses, the student should note that the Teacher Education courses are credited toward the BEd while the remaining courses are credited to the BPhEd. For this reason, a student who transfers out of the BPhEd (Honours)/BEd program may not have credit in Teacher Education courses applied to an

undergraduate degree. Students should note that credits for the concurrent BPhEd (Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between Undergraduate and Teacher Education departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Students must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year.

Terms of study at another institution cannot be accommodated during Fall/Winter sessions.

This is a limited enrolment program. Although admissions will be primarily based on grades, other criteria, such as balance across teachable disciplines or teaching areas of high need may be used in the selection process in any particular year. A Profile Questionnaire is required, to complete an application. Admission is not guaranteed by attainment of the minimum requirements.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St. Catharines campus in order to secure school placements aligned with teachable subjects. Students are responsible for their own transportation for practice teaching and other activities related to the program.

Successful graduates of the program will receive a Bachelor of Physical Education honours degree and a Bachelor of Education degree. The Department of Physical Education and Kinesiology is accredited through the Canadian Council of University Physical Education and Kinesiology Administrators. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the BPhEd (Honours)/BEd (Junior/Intermediate) Program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program must replicate the 5.0 credit concurrent program requirements; the secondary school English, Mathematics and Biology program admission requirements must be met. A Profile Questionnaire is required. Application forms and the Profile are available on the Concurrent Education web site from April 1. The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a limited

enrolment program and admission is not guaranteed by attainment of the minimum requirements.

Students must have completed the academic admission requirements for the Junior/Intermediate Teacher Education BEd degree before completing the BPhEd (Honours)/BEEd program as follows: 4U/M courses or university or university/college preparation courses in Canadian geography and Canadian history (or similar courses emphasizing Canadian content), mathematics, science and English. For those students who have not completed these courses before attending Brock, the following courses or equivalents will be accepted: one-half university credit in Canadian geography, GEOG 2P50 is recommended; CANA 1F91 or HIST 1F96 or one-half university credit in Canadian history.

Program Notes

1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.
2. Practice teaching blocks are completed in elementary school, grades 4-8, and may have to be scheduled in May and June of year 5.
3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- PEKN 1P90 and 1P93
- CHYS 1F90
- EDUC 1F95
- one credit from CANA 1F91, DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99
- one Sciences context credit

Year 2

- PEKN 2P00, 2P03, 2P04, 2P05, 2P06, 2P09 and 2P84
- CHYS 2F10 (see program note 1)
- EDUC 2P65

Year 3

- PEKN 2P08, 2P41, 2P90, 2P92, 2P95 and 3P32
- PEKN 3P00 or 4P00
- EDUC 3F00 and 3P45
- EDUC 8P15

Year 4

- PEKN 2P91, 3P10, 4P31 and 4P32
- one of PEKN 3P13, 3P91, 4P04
- one-half PEKN credit numbered 3(*alpha*)90 or above
- EDUC 4P05 and 4P25
- EDUC 8P18
- one-half elective credit

Year 5

- EDUC 4P02
- EDUC 8D09, 8P16, 8P20, 8P21, 8P23, 8Y04, 8Y05, 8Y24, 8Y26, 8Y27 and 8Y29 (see program note 2)

Description of Courses

See relevant calendar entry for course descriptions.

Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior)

Administrative Director, Concurrent Education Programs

Rosamund Batty

Associate Administrative Director, Concurrent Education Programs

Sandra Regier

Faculty Representatives

Chantal Buteau (Faculty of Mathematics and Science), Tony DiPetra (Faculty of Education)

General Information

Administrative Assistant

Mona Lavoie

905-688-5550 extension 4226

Welch Hall 8A

<http://concurrent.ed.brocku.ca>

The Faculties of Mathematics and Science and Social Sciences, and the Faculty of Education co-operate in offering a concurrent five-year program combining a Bachelor of Science (BSc) (Honours) degree and a Bachelor of Education (BEd) degree for students interested in teaching at the Intermediate/Senior level (grades 7-12).

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director of Concurrent Education Programs and the Chair, Department of Teacher Education. Students must maintain a minimum 75 percent cumulative overall average each year in all undergraduate academic grade-marked courses.

Each student must choose a Major from: Biological Sciences, Chemistry, Computer Science, Geography, Mathematics and Physics as these areas are the teachable subjects available from co-operating departments in the Faculty of Mathematics and Sciences and Social Sciences at Brock at the Intermediate/Senior level. Students are encouraged to consult with the departments to select courses relevant to high school education. The selection of the second teachable subject must be declared through the Office of Concurrent Education Programs prior to registration for year 2. A

maximum of 2.0 first year credits can be included in a second teachable subject. Students must complete a second teachable subject (minimum 3.0 credits) prior to starting Year 5. A minimum of 10.5 academic undergraduate credits in Mathematics and Sciences must be completed for a BSc Honours degree to be awarded.

Teacher Education courses are credited toward the BEd while the remaining courses are credited to the BSc. For this reason, a student who transfers out of the BSc/BEd program will not have credit in Teacher Education courses applied to an undergraduate degree. Students should note that credits for the concurrent BSc (Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Undergraduate and Teacher Education Departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Student must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year. Terms of study at another institution cannot be accommodated during the Fall/Winter sessions.

Successful graduates will receive a Bachelor of Science (Honours) degree and a Bachelor of Education degree. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St Catharines campus in order to secure school placements aligned with teachable subjects. Students are responsible for their own transportation for practice teaching and other activities related to the program.

This is a limited enrolment program. Although admissions will be primarily based on grades, other criteria, such as balance across teachable disciplines or teaching areas of high need may be used in the selection process in any particular

year. A Profile Questionnaire is required. Admission is not guaranteed by attainment of the minimum requirements.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the BSc (Honours)/BEd (Intermediate/Senior) Program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program must replicate the 5.0 credit concurrent program requirements; the secondary school English and Mathematics program admission requirements must be met. A Profile Questionnaire is required. Application forms and the Profile are available on the Concurrent Education web site from April 1.

The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a limited enrolment program and admission is not guaranteed by attainment of the minimum requirements.

Program Notes

1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.

2. Practice teaching may have to be scheduled in May and June of year 5.

3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.

4. In developing teachable subjects, where possible, students are encouraged to consult with the departments to choose courses relevant to secondary school curriculum. Students must develop a major teachable subject as prescribed by the program in one of the following subject areas as listed:

COMPUTER STUDIES - All 5.0 credits must be in computer and information science related to: software design and programming; problem solving; logic and design.

GEOGRAPHY - A minimum 0.5 credit in Canadian geography. A maximum of 1.0 credit in Environmental Studies. **MATHEMATICS** - A maximum of 2.0 credits in statistics.

SCIENCE - BIOLOGY - A maximum of 1.0 credit in Anatomy, Physiology or Biomechanics.

SCIENCE - CHEMISTRY - Biochemistry courses may be accepted. Physics is the only option as a second teachable subject.

SCIENCE - PHYSICS - All 5.0 credits must be related to: Forces and Motion; Energy, Work, Power, Matter and Energy; Waves-Light and Sound; Electricity, Magnetism, Gravitation; Hydraulic and Pneumatic Systems. A maximum of 1.0 credit in Astronomy.

Students must achieve a 75 percent average in a minimum 5.0 credits of the major teachable subject. For general guidelines on selecting courses for teachable subjects refer to Admissions under Pre-service Education.

5. Students must choose the second teachable subject area from: Dramatic Arts, English (first

language), French (second language), Geography, History, Mathematics, Health and Physical Education, Science-Biology, Science-Chemistry, Science-General, Science-Physics, Visual Arts. Students must achieve a 70 percent average in the minimum 3.0 credits for a second teachable subject. A maximum of 2.0 first year credits can be included. Clarification of the following teachable subjects:

DRAMATIC ARTS - Course credits in creativity-based practical work with a reflective component are required. A maximum of 1.0 credit in theory-based courses, history of theatre/drama/dramatic literature.

ENGLISH (first language) - A minimum of 1.0 credit in English literature/poetry.

FRENCH (second language)- 2.0 credits must be in grammar, composition, both of which must be given in French. A maximum of 1.0 credit in translation.

GEOGRAPHY - Must have 0.5 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

HEALTH AND PHYSICAL EDUCATION - 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in courses related to Health Studies.

HISTORY - Must have 1.0 credit in Canadian history. A maximum of 1.0 credit in history of art. A maximum of 1.0 credit in Greek/Roman civilization.

MATHEMATICS - A maximum of 1.0 credit in statistics.

SCIENCE - BIOLOGY - A maximum of 1.0 credit in Anatomy, Physiology, Biochemistry, or Biomechanics.

SCIENCE - CHEMISTRY - Biochemistry courses may be accepted.

SCIENCE - PHYSICS - All 3.0 credits must be in Physics related to: Forces and Motion; Energy, Work, Power, Matter and Energy; Waves-Light and Sound; Electricity, Magnetism, Gravitation; Hydraulic and Pneumatic Systems. A maximum of 1.0 credit in Astronomy. Physics is the only option as a second teachable subject with Chemistry as a first teachable subject.

SCIENCE - GENERAL - 2.0 credits in one subject must be from Biology, Chemistry, or Physics (including Astronomy). The remaining 1.0 credit may be from one of these subjects not used, or from Earth Sciences or Environmental Science. If applicants wish to declare Science-Biology, Science-Chemistry or

Science-Physics as a first or second teachable subject, they may only do so with the science subject not used for the Science - General teachable.

VISUAL ARTS - Studio-based course credits are required. A maximum of 1.0 credit from film, photography, architecture, fashion, or history of art. For general guidelines on selecting courses for teachable subjects refer to Admissions under Teacher Education.

6. Computer Science majors must choose a second teachable subject from Dramatic Arts, English, French, Physical Geography, Mathematics, Science-Biology, Science-Chemistry, Science-General, Science-Physics, Visual Arts.

7. BSc Geography majors must choose a second teachable subject from Computer Studies, Mathematics, Science-Biology, Science-Chemistry, Science-General or Science-Physics.

8. Students normally take Geography courses from Group B (see Geography department) and they may select courses from Groups A and C. A minimum of 10.5 academic undergraduate credits in Mathematics and Science must be completed for a BSc Honours degree to be awarded.

9. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Biological Sciences

Year 1

- BIOL 1F90
- CHEM 1F92
- CHYS 1F90
- MATH 1P97 and 1P98
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99

Year 2

- BIOL 2F01, 2P05 and 2Q04
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

Year 3

- Four BIOL credits numbered 2(*alpha*)90 or above
- EDUC 8P08
- one credit in second teachable subject (see program note 5)

Year 4

- Three BIOL credits numbered 3(*alpha*)90 or above
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P86, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P87, 8P88, 8P90

Chemistry (Physics as a Second Teachable Subject)

Year 1

- CHEM 1F92
- CHYS 1F90
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99

Year 2

- CHYS 2F10 (see program note 1)
- CHEM 2P20 and 2P42
- one credit from CHEM 2P12, 2P21, 2P32
- APCO 1P93
- EDUC 1F95
- PHYS 2P50

Year 3

- CHEM 3P40 and 3P41
- one of CHEM 2P12, 2P21, 2P32 (not taken in Year 2)
- one and one-half credits from CHEM 2P63, CHEM courses numbered 2(*alpha*)90 or above EDUC 8P08
- one of PHYS 2P02, 2P20, 2P31, 2P50, 2P51
- one PHYS credit numbered 2(*alpha*)90 or above
- one-half elective credit

Year 4

- CHEM 4F90 and 4F91
- one CHEM credit numbered 2(*alpha*)90 or above
- one CHEM credit numbered 4(*alpha*)00 or above
- EDUC 8P02 and 8P19

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P69, 8P87, 8Y04 and 8Y05 (see program note 2)

Computer Science

Year 1

- CHYS 1F90
- COSC 1P02 and 1P03
- MATH 1P66 and 1P67
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99
- one Sciences context credit

Year 2

- CHYS 2F10 (see program note 1)
- COSC 2P03, 2P12, 2P13 and 2P32
- EDUC 1F95
- one credit in second teachable subject (see program notes 5 and 6)

Year 3

- COSC 1P50, 2P90 and 3F00
- EDUC 8P08
- MATH 1P05, 1P06 and 1P12
- one credit in second teachable subject (see program notes 5 and 6)
- one-half elective credit

Year 4

- One credit from COSC 2P91, 3P01, 3P40, 3P71
- two COSC credits numbered 3(*alpha*)90 or above
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program notes 5 and 6)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P72, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

Geography

Year 1

- GEOG 1F90 and 1F91
- CHYS 1F90
- one credit in second teachable subject (see program notes 5 and 7)
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99

Year 2

- GEOG 2P03 or 2P06, 2P07, 2P11 and 2P12
- one credit from GEOG 2P04, 2P05, 2P09, 2P13

- CHYS 2F10 (see program note 1)
- EDUC 1F95

Year 3

- GEOG 3P56
- two and one-half GEOG credits numbered 2(*alpha*)90 or above(see program note 8) EDUC 8P08
- one credit in second teachable subject (see program notes 5 and 7)
- one elective credit

Year 4

- One GEOG credit numbered 2(*alpha*)90 or above (see program note 8)
- two GEOG credits numbered 3(*alpha*)90 or above (see program note 8)
- one credit in second teachable subject (see program notes 5 and 7)
- EDUC 8P02 and 8P19

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P77, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

Mathematics

Year 1

- MATH 1P01, 1P02, 1P12 and 1P40
- CHYS 1F90
- one credit in second teachable subject (see program note 5)
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99

Year 2

- MATH 2F40, 2P03, 2P08, 2P81 and 2P82
- CHYS 2F10 (see program note 1)
- EDUC 1F95

Year 3

- MATH 2P72 and 3P12
- MATH 2P90 and 3P90 or MATH 2P93 and 3P93
- EDUC 8P08
- one and one-half credits in second teachable subject (see program note 5)
- one Sciences context credit
- one-half elective credit

Year 4

- MATH 2P90 and 3P90 or MATH 2P93 and 3P93 (not taken in year 3)
- MATH 3P91
- one MATH credit numbered 2(*alpha*)00 or above
- one MATH credit numbered 3(*alpha*)90 or above

- EDUC 8P02 and 8P19
- one-half credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P81, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

Physics

Year 1

- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- CHYS 1F90
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99
- one credit in second teachable subject (see program note 5)

Year 2

- PHYS 2P02, 2P31, 2P50 and 2P51
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- MATH 2F05

Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- EDUC 8P08
- MATH 1P12, 3P08 and 3P09
- one credit in second teachable subject (see program note 5)

Year 4

- PHYS 4P51
- two and one-half credits from PHYS 2P20, 3P02, 3P92, 3P93, 4F90, 4P30, 4P41, 4P52, 4P61, 4P70, 4P71, 4P92, 4P94
- EDUC 8P02 and 8P19
- one credit in second teachable subject (see program note 5)

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P69, 8Y04 and 8Y05 (see program note 2)
- one of EDUC 8F76, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P88, 8P90

Physics (Mathematics as Second Teachable Subject)

Year 1

- PHYS 1P21 or 1P91
- PHYS 1P22 or 1P92
- CHEM 1F92

- CHYS 1F90
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99

Year 2

- PHYS 2P02, 2P31, 2P50 and 2P51
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- MATH 2F05

Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- EDUC 8P08
- MATH 1P12, 3P08 and 3P09
- one elective credit

Year 4

- PHYS 4P51
- two and one-half credits from PHYS 2P20, 3P02, 3P92, 3P93, 4F90, 4P30, 4P41, 4P52, 4P61, 4P70, 4P71, 4P92, 4P94
- EDUC 8P02 and 8P19
- one elective credit

Year 5

- EDUC 4P06 and 4P26
- EDUC 8L09, 8F11, 8P69, 8P81, 8Y04 and 8Y05 (see program note 2)

Physics (Chemistry as a Second Teachable Subject)

Year 1

- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- CHEM 1F92
- CHYS 1F90
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one credit from DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99

Year 2

- PHYS 2P02, 2P31, 2P50 and 2P51
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- MATH 2F05

Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- one CHEM credit
- EDUC 8P08
- MATH 1P12, 3P08 and 3P09

Year 4

- PHYS 4P51
- one CHEM credit
- two and one-half credits from PHYS 2P20,

- 3P02, 3P92, 3P93, 4F90, 4P30, 4P41, 4P52, 4P61, 4P70, 4P71, 4P92, 4P94
- EDUC 8P02 and 8P19

Year 5

- EDUC 4P06 and 4P26
- EDUC 8F11, 8L09, 8P69, 8P87, 8Y04 and 8Y05 (see program note 2)

Description of Courses

See relevant calendar entry for course descriptions.

Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate)

Administrative Director, Concurrent Education Programs

Rosamund Battye

Associate Administrative Director, Concurrent Education Programs

Sandra Regier

Faculty Representatives

Chantal Buteau (Faculty of Mathematics and Science), Ann-Marie DiBiase (Faculty of Education)

General Information

Administrative Assistant

Mona Lavoie

905-688-5550 extension 4226

Welch Hall 8A

<http://concurrent.ed.brocku.ca>

The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent five-year program combining a Bachelor of Science (BSc) (Honours) degree in Integrated Studies with a Bachelor of Education (BEd) degree for students interested in teaching mathematics and sciences at the Junior/Intermediate level (grades 4-10) emphasizing elementary school (grades 4-8).

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Administrative Director of Concurrent Education Programs and the Chair, Department of Teacher Education. Students must maintain a minimum 75 percent cumulative overall average each year in all undergraduate academic grade-marked courses.

Each student must choose a teachable subject from one of Physical Geography, Mathematics or Science-General. A minimum of 3.0 credits is required in a teachable subject, a Minor is recommended and students are encouraged to consult with the departments to select courses relevant to elementary school education. The selection of the teachable subject must be

declared through the Office of Concurrent Education Programs prior to registration for year 2. A minimum of 10.5 academic undergraduate credits in Mathematics and Sciences must be completed for a BSc Honours degree to be awarded.

Teacher Education courses are credited toward the BEd while the remaining courses, including the Undergraduate Education courses, are credited to the BSc. For this reason, a student who transfers out of the BSc (Honours)/BEd program will not have credit in Teacher Education courses applied to an undergraduate degree. Students should note that credits for the concurrent BSc (Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Undergraduate and Teacher Education Departments. The Teacher Education program is organized subject to the requirements of Brock University and outside regulatory organizations that govern teacher education in Ontario (e.g. the Ontario College of Teachers). In any year the program requirements for the Teacher Education program may change in order to meet outside regulatory requirements.

Students must complete program requirements for the first four years of the concurrent program by September prior to commencing the final year.

Terms of study at another institution cannot be accommodated during Fall/Winter sessions. Successful graduates will receive a Bachelor of Science (Honours) degree in Integrated Studies and a Bachelor of Education degree. Upon successful completion of a teacher education program, teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

The Department of Teacher Education reserves the right to assign Concurrent Education students, in their final year, to either the Hamilton or St Catharines campus in order to secure school placements aligned with teachable subjects. Students are responsible for their own transportation for practice teaching and other activities related to the program.

This is a limited enrolment program. Although admissions will be primarily based on grades, other criteria, such as balance across teachable disciplines or teaching areas of high need may be used in the selection process in any particular year. A Profile Questionnaire is required. Admission is not guaranteed by attainment of the minimum requirements.

Ontario College of Teachers Criminal Records Screening Policy

1. The Ontario College of Teachers requires both a criminal record check and a criminal record declaration by the applicant as necessary components of registration for new applicants.
2. The costs associated with the provision of the criminal record check and any appeals are to be borne by the applicant.
3. All positive reports of criminal offences will be examined by the Ontario College of Teachers Registrar to determine whether the record of offence(s) is relevant to the applicant's honesty, integrity and/or suitability to practice the profession and whether the offence(s) constitute reasonable grounds for refusal to issue a certificate of qualification and registration, or to impose terms, conditions or limitations on registration, in accordance with Section 18(2) of the Ontario College of Teachers Act.
4. Applicants for registration by the Ontario College of Teachers will be advised of the reasons for the decisions of the Ontario College of Teachers Registrar to refuse certification or to impose terms, conditions or limitations and that appeals to these decisions will be determined in accordance with Part III of the Ontario College of Teachers Act.

Questions regarding the policy should be directed to the Ontario College of Teachers.

Admissions

Students interested in the BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) Program apply directly from secondary school. University or college transfer applicants with less than the equivalent of 4.0 university transfer credits may be considered for admission. Brock students may apply and be admitted to second year if there is space available. To apply students must have a minimum 75 percent overall average in Year 1; their Year 1 program must replicate the 5.0 credit concurrent program requirements; the secondary school English and Mathematics program admission requirements must be met. A Profile Questionnaire is required. Application forms and the Profile are available on the Concurrent Education web site from April 1. The completed documents must be filed in the Concurrent Education Office by June 1. Late applications will not be accepted. Students should note that this is a

limited enrolment program and admission is not guaranteed by attainment of the minimum requirements.

Students must complete the academic admission requirements for the Junior/Intermediate Teacher Education BEd degree before completing the BSc Integrated Studies (Honours)/BEd program as follows: 4U/M courses or university or university/college preparation courses in Canadian geography and Canadian history (or similar courses emphasizing Canadian content), mathematics, science and English. For those students who have not completed these courses before attending Brock, the following courses or equivalents will be accepted: one-half university credit in Canadian geography, GEOG 2P50 is recommended; CANA 1F91, HIST 1F96, or one-half university credit in Canadian history. Students are also encouraged to take arts and physical education courses.

Program Notes

1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.
2. Practice teaching blocks are completed in elementary schools, grades 4-8, and may have to be scheduled in May and June of year 5.
3. Students failing to maintain the 75 percent cumulative overall average are granted an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.
4. Courses may be taken from BCHM, BIOL, BTEC, CHEM, COSC, ERSC, MATH, NEUR, OEVI, PHYS, SCIE or courses that are recognized for Science credit (see Community Health Sciences, Geography, and Physical Education and Kinesiology Departments)
5. To develop a teachable subject, students are encouraged to consult with the departments to choose courses relevant to elementary school curriculum.
6. Students must develop a teachable subject (a minimum of 3.0 credits) in any one of the following subject areas listed:

GEOGRAPHY - A minimum of 0.5 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

MATHEMATICS - A maximum of 1.0 credit in Statistics.

SCIENCE - GENERAL - 2.0 credits in one subject must be from biology, chemistry or physics (including Astronomy). The remaining credit may be from one of these subjects not used or from Earth Sciences or Environmental Science.

For general guidelines on selecting courses for teachable subjects refer to Admissions under Teacher Education.

7. Students must achieve a 75 percent average in the minimum 3.0 credits for a teachable subject. A maximum of 2.0 first year credits can be included in that teachable subject.

8. Students must complete one credit in a language other than English. Where one-half credit courses are used to satisfy the requirement, both half credits must be in the same language.

9. APCO 1P01 and 1P50 are recommended as courses in applied computing relevant to students in concurrent education.

10. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- CHYS 1F90
- EDUC 1F95
- one credit from CANA 1F91, DART 1F93, 1F95, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P98, 1P99, MUSI 1F10, 1F50, VISA 1Q98, 1Q99
- one credit in J/I teachable subject or Science elective credit (see program notes 4, 5 and 6)
- one Sciences context credit

Year 2

- CHYS 2F10 (see program note 1)
- one APCO, COSC or MATH credit (see program note 9)
- EDUC 2P65
- one credit in J/I teachable subject (see program notes 5 and 6)
- one Science elective credit
- one-half elective credit

Year 3

- CHYS 3P74
- EDUC 3F00 and 3P45

- EDUC 8P15
- one Science elective credit (see program note 4)
- one credit in J/I teachable subject (see program notes 5 and 6)
- one language credit (see program note 8)

Year 4

- MATH 3P91 or ESCI 3P91
- EDUC 4P01 and 4P25
- EDUC 8P18
- three Science elective credits (see program note 4)

Year 5

- EDUC 4P02
- EDUC 8D09, 8P23, 8P21, 8P20, 8P16, 8Y04, 8Y05, 8Y24, 8Y26, 8Y27 and 8Y29 (see program note 2)

Description of Courses

See relevant calendar entry for course descriptions.

English Language and Literature

Chair

Neta Gordon

Professors

Martin Danahay, Marilyn J. Rose, Elizabeth Sauer

Associate Professors

Robert Alexander, James Allard, Tim Conley, Neta Gordon, John Lye, Mathew Martin, Barbara K. Seeber, Angus A. Somerville, Susan Spearey

Assistant Professors

Lynn Arner, Gregory Betts, Catherine Chaput, Adam Dickinson, Ann Howey, Leah Knight, Sherryl Vint

Writing, Rhetoric and Discourse Studies Coordinator

Robert Alexander

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The Literature programs in the Department of English Language and Literature focus on an understanding of the traditions, themes and dynamics of imaginative writing in English, within its various historical and cultural contexts. Students choose courses from a broad range of historically-organized courses, courses in literary genres, and courses in the history of language, criticism and theory. The Writing, Rhetoric and Discourse Studies program focuses on the theoretical, creative and practical applications of writing in and for a range of contexts. The Department aims in its programs to foster an informed and critical intelligence, a mastery of the best uses of language, and an appreciation for the social and personal centrality of powerful imaginative and expository writing across times and cultures.

The Department offers a BA Honours in English Language and Literature, a BA Honours in English and Contemporary Culture, a four-year degree with Major in English and Writing, Rhetoric and Discourse Studies, a three-year program leading to the BA Pass degree, and combined honours and pass degrees in English and another subject. In addition, the Department offers courses on academic, creative and professional writing which are available as electives to all Brock students who wish to explore theories of language production and develop their creative and professional writing skills. The Department also offers a Minor in English Language and Literature and a Minor in Writing, Rhetoric and Discourse Studies as well as a Certificate in Rhetoric and Professional Writing.

Seminars (discussion groups) are the rule in all English Language and Literature courses, encouraging students to become active participants in the study of literary texts. Through close attention to essay assignments, students learn to write in convincing and disciplined ways.

The Department of English Language and Literature offers credit for specified Dramatic Literature courses.

Students may register in courses numbered 4(alpha)00 and above only upon admittance to Year 4 studies or with the permission of the instructor and the Chair.

Language Requirement for Humanities Majors

Students in the Department of English Language and Literature must complete one credit in a language other than English. Where one-half credit courses are used to satisfy the requirement, both half credits must be in the same language.

Program Notes

1. The Department recommends that all Honours students take at least two of ENGL 3P94, 4P70, 4P71.
2. The following Dramatic Arts courses are available for English credit: DART 1F93, 2F94, 2P96, 2P97, 3F94, 3P90 and 3P91.
3. Students may take a maximum of one credit from ENGL 2P80, 2P81, 2P82, 2P83 to satisfy List A requirements.

4. Students may take a maximum of three DART credits for English credit towards an Honours degree, and a maximum of two DART credits towards a Pass degree or the four-year degree with Major.

5. The Department recommends that students take one credit in dramatic literature from ENGL 2P80, 2P81, 2P82, 2P83, 2P84, DART 1F93, 2F94, 2P96, 2P97, 3F94, 3P90, 3P91.

6. The Department advises students in English programs to have their programs reviewed each year by the Faculty of Humanities Undergraduate Adviser. Students planning to enter fourth year are required to have their programs approved by the Faculty of Humanities Undergraduate Adviser.

7. Honours English majors must take two credits numbered 4(alpha)00 and above; Combined Honours English majors must take one ENGL credit numbered 4(alpha)00 and above. Students are restricted to two credits numbered 4P00 to 4P90, 4V00 to 4V99.

8. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

List Courses

List Courses in English reflect historical periods, as follows:

List A: Literature to 1740: ENGL 2P19, 2P21, 2P24, 2P80, 2P81, 2P82, 2P83, 2P84, 3P20, 3P22, 3P25, 3P92, 3P95, 4P00, 4V00-4V09

List B: Literature from 1740 to 1900: ENGL 2P10, 2P25, 2P30, 2P31, 2P60, 2P64, 2P67, 3P30, 3P31, 3P40, 3P41, 3P42, 4P30, 4V30-4V39

List C: Literature of the 20th and 21st Centuries: ENGL 2P11, 2P15, 2P45, 2P51, 2P52, 2P53, 2P56, 2P57, 2P59, 2P65, 2P66, 2P68, 2P69, 3P38, 3P39, 3P43, 3P45, 3P46, 3P63, 3P66, 4P65, 4V40-4V49, 4V60-4V69, 4V90

English and Writing, Rhetoric and Discourse Studies Subfields

The WRIT courses numbered 2(*alpha*)00 or above fall into three subfields and the department advises English and Writing, Rhetoric and Discourse Studies majors to select courses from within one of the subfields.

Creative Writing

- WRIT 3P06, 3P07, 3P18, 3P98, 3V90-3V99

Discourse and Rhetoric

- WRIT 2P20, 2P28
- WRIT 3P16, 3P28
- WRIT 4P10, 4P15, 4P20

Journalism and Professional Writing

- WRIT 2P14, 2P16, 2P18
 - WRIT 3P16, 3P18, 3P63
-

Honours Program

English Language and Literature

Honours English students must complete an array of historical period courses and are strongly advised to take courses in literary criticism or theory. Students planning to proceed to training for intermediate or secondary school teaching are advised to include in their Honours English program three credits in a second teachable discipline.

Eleven English credits are required for an Honours degree.

- One of ENGL 1F91, 1F95, 1F97
- two ENGL credits from List A (see List Courses) (see program note 3)
- two ENGL credits from List B (see List Courses)
- two ENGL credits from List C (see List Courses)
- four additional ENGL credits (see program notes 7 and 8)
- one language credit other than English (see language requirement)
- one Sciences context credit
- one Social Sciences context credit
- six elective credits (see program note 8)

English and Contemporary Culture

English and Contemporary Culture is an alternative four-year Honours program designed for those who wish to combine the study of English with studies in contemporary media and culture. Students planning to proceed to training for intermediate or

secondary school teaching are advised to include three credits in their English and Contemporary Culture program in a second teachable discipline.

- Nine ENGL credits are required for an Honours English and Contemporary Culture degree.
 - One of ENGL 1F91, 1F95, 1F97
 - COMM 1F90
 - two ENGL credits from List A (see List Courses; see program note 3)
 - two credits from List B (see List Courses)
 - two ENGL credits from List C (see List Courses)
 - two additional ENGL credits (see program note 8)
 - three additional credits from COMM, PCUL, FILM
 - one language credit other than English (see language requirement)
 - one Sciences context credit
 - one Social Sciences context credit
 - four elective credits (see program note 8)
-

Concurrent ENGL BA/BEEd

The Department of English Language and Literature and the Faculty of Education cooperate in offering two Concurrent BA (Honours)/BEEd programs. The English BA (Honours)/BEEd program combines the BA Honours program or BA Integrated Studies Honours program with the teacher education programs for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10.) Refer to the Education - Concurrent BA (Honours)/BEEd (Intermediate/Senior) or Education - Concurrent BA Integrated Studies (Honours)/BEEd (Junior/Intermediate) program listings for further information.

BA with Major Program

English and Professional Writing

This program combines study in English literature with the theory and practice of professional writing, and is designed for students planning to seek work in areas that require demonstrated proficiency in writing for the workplace.

Six ENGL and five WRIT credits are required for a BA with Major degree.

Year 2

- Year 2 is now closed

Year 3-4

- One ENGL credit from List C (see List Courses)
- two additional ENGL credits (see program note 8)
- two additional WRIT credits numbered 2(*alpha*)00 or above
- five elective credits (see program note 8)

English and Writing, Rhetoric and Discourse Studies

This program combines study in English literature with the theory and practice of writing, and is designed for students wishing to enhance their English degree with a knowledge of rhetoric, discourse, and the genres of creative and professional writing.

Six ENGL and five WRIT credits are required for a BA with Major degree.

- One of ENGL 1F91, 1F95, 1F97
 - WRIT 1P96
 - two WRIT credits
 - one ENGL credit from List A (see List Courses; see program note 3)
 - one ENGL credit from List B (see List Courses)
 - one ENGL credit from List C (see List Courses)
 - two additional ENGL credits (see program note 8)
 - one-half WRIT credit numbered 1(*alpha*)90 or above
 - two additional WRIT credits numbered 2(*alpha*)00 or above
 - one language credit other than English (see language requirement)
 - one Sciences context credit
 - one Social Sciences context credit
 - six elective credits (see program note 8)
-

Pass Program

Seven ENGL credits are required for a Pass degree.

- One of ENGL 1F91, 1F95, 1F97
- one ENGL credit from List A (see List Courses; see program note 3)
- one ENGL credit from List B (see List Courses)
- one ENGL credit from List C (see List Courses)
- one additional ENGL credit from among List A, List B and List C (see List Courses)
- two additional ENGL credits (see program note 8)

- one language credit other than English (see language requirement)
- one Sciences context credit
- one Social Sciences context credit
- five elective credits (see program note 8)

Combined Major Program

Students may take a combined major in English Language and Literature and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

- One of ENGL 1F91, 1F95, 1F97
- one ENGL credit from List A (see List Courses)
- one ENGL credit from List B (see List Courses)
- one ENGL credit from List C (see List Courses)
- three additional ENGL credits (see program notes 7 and 8)
- one language credit other than English (see language requirement)

Pass

- One of ENGL 1F91, 1F95, 1F97
- one ENGL credit from List A (see List Courses; see program note 3)
- one ENGL credit from List B (see List Courses)
- one ENGL credit from List C (see List Courses)
- one additional ENGL credit (see program note 8)
- one language credit other than English (see language requirement)

English Language and Applied Linguistics

Consult the Applied Linguistics entry for a listing of program requirements.

Certificate in Rhetoric and Professional Writing

The Department of English Language and Literature offers a Certificate in Rhetoric and Professional Writing for those wishing to acquire a broad, practical experience and understanding of the management, organization and presentation of information and text. Certificate programs are limited to

persons not currently enrolled in a degree program at Brock.

The certificate is awarded upon the successful completion of the following courses with a minimum 70 percent overall average:

- Three WRIT credits
- two credits from COMM 1F90, 2P90, 2P91, LING 3P94, 3P95

Minor Program

Minor in English Language and Literature

Students in other disciplines may obtain a Minor in English Language and Literature by successfully completing the following courses with a minimum 60 percent overall average:

- One of ENGL 1F91, 1F95, 1F97
- three ENGL credits numbered 2(alpha)00 or above

Minor in Writing, Rhetoric, and Discourse Studies

Students in English Language and Literature and other disciplines may obtain a Minor in Writing, Rhetoric, and Discourse Studies by successfully completing the following courses with a minimum 60 percent overall average:

- WRIT 1P96
- three and one-half WRIT credits

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ENGL 1F91

English Literature: Tradition and Innovation
Works from the mediaeval to the contemporary period, including such authors as Chaucer, Shakespeare, Milton, Swift, Wordsworth, the Brownings, Woolf and Rushdie. Genres include tragedy, romance, epic, and the novel.
Lectures, seminar, 3 hours per week.

Note: particular attention will be paid to perceptive reading and clear, effective writing.

ENGL 1F95

Literature in English: Forms, Themes and Approaches

Fiction, poetry, drama and film drawn from the 19th century to the present. The conventions of genre and the ways writers shape their work to produce meaning. Treatment in literature of such themes as the nature of evil; history, gender and civil strife; constructions of love.

Lectures, seminar, 3 hours per week.

Note: particular attention will be paid to perceptive reading and clear, effective writing.

ENGL 1F97

Literature of Trauma and Recovery

Responses to human suffering, both personal and societal, and the power of words to express and effect change in the face of powerful adversity. Narratives of and responses to illness, violence, death and mourning, war and pestilence, and genocide. Includes works drawn from fiction, poetry and drama.

Lectures, seminar, 3 hours per week.

Note: particular attention will be paid to perceptive reading and clear, effective writing.

ENGL 2F92

Popular Narrative

(also offered as COMM 2F92 and PCUL 2F92)

Textual and contextual analysis of popular literary genres such as the detective novel, gothic fiction, science fiction and the romance novel; adaptation of popular novels to a variety of other media forms.

Lectures, seminar, lab, 4 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, COMM 1F90, FILM 1F94, PCUL 1F92 or permission of the instructor.

ENGL 2P10

Young People's Literature to 1914

Critical study of fairytales, folk tales, poetry and novels adapted for or directed toward children and young people from the folk-tale heritage to 1914.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities context credit (minimum 60 percent) or permission of the instructor.

ENGL 2P11

Young People's Literature after 1914

Critical study of fairytales, folk tales, poetry and novels written for children and young people during the 20th century.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities context credit (minimum 60 percent) or permission of the instructor.

ENGL 2P15

Speculative Fiction

Critical study of some of the histories, contexts, genres, and traditions of science fiction and the literature of the fantastic.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities Context credit (minimum 60 percent) or permission of the instructor.

ENGL 2P17

Satire

Literary modes and techniques of satire ranging from Aristophanes and Pope to Waugh and Vonnegut.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities Context credit (minimum 60 percent) or permission of the instructor.

ENGL 2P19

Chaucer: The Poetry

From *The Book of the Duchess* to *The Canterbury Tales*.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities context credit (minimum 60 percent) or permission of the instructor.

ENGL 2P21

Sixteenth Century Literature

Prose and poetry from 1500 to 1590, including popular and courtly traditions.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, MARS 1F90 or permission of the instructor.

ENGL 2P24

Early Seventeenth Century Literature

Early modern drama, poetry and prose, 1603 to the English Revolution, including such writers as Webster, Donne, Jonson and Lanyer.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, MARS 2P24 or permission of the instructor.

ENGL 2P25

The Age of Sensibility

Poetry, drama, fiction and non-fiction prose 1740-1798, including such writers as Johnson, Cowper, Sterne, Burney and Radcliffe.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)00 to 1(alpha)99 or permission of the instructor.

ENGL 2P28

Persuasive Discourse: Theoretical Foundations

(also offered as IASC 2P28 and WRIT 2P28) Classical foundations, historical developments and contemporary theory. Relation of language use to cultural practices, ethics, identity and power. Analysis of various genres of texts and persuasive writing in popular culture and mass media.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from ENGL 1(alpha)90 to 1(alpha)99, IASC 1F00, COMM 1F90, WRIT 1(alpha)80 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL (WRIT) 2P27.

ENGL 2P30

Early Romantic Writing

Poetry, drama, fiction and non-fiction prose by such writers as Blake, the Wordsworths, Coleridge and Austen.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P31

Later Romantic Writing

Poetry, drama, fiction and non-fiction prose by such writers as Byron, the Shelleys, Keats and Hemans.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P45

Poetry and Poetics

Construction of a working technical vocabulary for analyzing and discussing poetry, including a variety of poetic styles, authors and periods, as well as a number of critical statements on poetics.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* ENGL 2P51

Literature of the British Empire

(also offered as INTC 2P51)

Literature, both popular and canonical, which reflects the ongoing relationship between British imperialism, literary forms and cultural politics, from the 17th century to the present.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered

1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTC 2P51.

* ENGL 2P52

Postcolonial Literature

(also offered as INTC 2P52)

Literatures of resistance and emergence written in English in former British territories, such as those in Africa and the West Indies.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTC 2P52.

* ENGL 2P53

Southern African Literatures of Transition

(also offered as INTC 2P53)

Literary explorations of and interventions in the political and socio-cultural transitions from white regimes to majority-rule politics. Emphasis on histories of trauma, displacement and dispossession.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTC 2P53.

ENGL 2P56

The Short Story

Theory and analysis of the short story from Poe and Hawthorne to contemporary writers.

Lectures, seminars, 3 hours per week.

Prerequisite: one Humanities context credit (60 percent) or permission of the instructor.

* ENGL 2P57

Representing the World in Modern Fiction

(also offered as IASC 2P57)

Major modes in the representation of human experience in modern fiction: romance, realism, modernism and postmodernism. Novels and short stories.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, IASC 1F00 or permission of the instructor.

* ENGL 2P59

Valuing Contemporary Fiction

(also offered as PCUL 2P59)

Contesting concepts of literary value; the grounds and methods of evaluation; differing interpretive communities; social locations and uses of fiction. Novels and short stories.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities context credit (60 percent) or permission of the instructor. Completion of this course will replace previous assigned grade and credit obtained in ENGL (PCUL) 2P96.

ENGL 2P60

American Literature: 1800-1865

Literature of the post-Revolutionary era to the Civil war, foregrounding the foundation of a distinctly American literary tradition and the achievements of the American Renaissance.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2P61.

ENGL 2P64

Early Canadian Literature

Canadian explorations of cultural conflict and the emergence of the nation from First Contact to Exploration to Settlement.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P65

Modern Canadian Literature from 1920 to the Present

Canadian literary response to the radical social and cultural shift of modernism. Topics include war, gender, industrialization and urbanization.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P66

Contemporary Canadian Literature

Writing from the post-centennial explosion and maturation of Canadian literature, including current cutting-edge work. Topics may include postmodernism, multiculturalism, ecocriticism and small press experimentation.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P67

American Prose: 1865-1910

Prose of the Reconstruction period, the Gilded Age and the Progressive era, emphasizing the growth of the minority literatures and the rise of realism and regional writing.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2P61.

ENGL 2P68

American Literature: 1910-1945

Literature of the early 20th century, emphasizing the various literary and cultural responses to industrialization and world wars, and the rise of modernism.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2P62.

ENGL 2P69

Contemporary American Prose from 1945

Topics may include the Cold War, the rise of social movements such as Black Power and Second-Wave Feminism, Vietnam, postmodernism, America and globalization, and expanding the canon of American literatures.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2P62.

* ENGL 2P70

Introduction to Literary Theory

(also offered as IASC 2P70)

Approaches to meaning and interpretation in the contemporary study of literature.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, IASC 1F00 or permission of the instructor.

ENGL 2P75

English and Empire

Cultural, political, economic, and linguistic forces shaping the global expansion of English. Focus on at least one of English in Asia, Africa or the Americas.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2Q90.

ENGL 2P76

Studies in the History of English

Cultural and linguistic contexts of English in selected periods, traditions, regions, and writers or groups of writers.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2Q91.

* ENGL 2P80

Shakespeare 1590-1603

(also offered as LART 2P80)

Representative plays from the first half of Shakespeare's dramatic career emphasizing theoretical and cultural issues raised by the plays in the context of fin-de-siècle Elizabethan England.

Lectures, seminar, 3 hours per week.

Prerequisite: one of one ENGL credit numbered 1(alpha)90 to 1(alpha)99, LART (GBLS) 1F90, MARS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL (GBLS) 2Q92 and GBLS 2P80.

* ENGL 2P81

Shakespeare 1603-1614

(also offered as LART 2P81)

Representative plays from the second half of Shakespeare's dramatic career emphasizing theoretical and cultural issues raised by the plays in the context of the opening decade of James I's culturally divisive reign.

Lectures, seminar, 3 hours per week.

Prerequisite: one of one ENGL credit numbered 1(alpha)90 to 1(alpha)99, LART (GBLS) 1F90, MARS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL (GBLS) 2Q93 and GBLS 2P81.

ENGL 2P82

Shakespeare's Comedies

(also offered as LART 2P82)

Representative comedies and tragicomedies emphasizing the variety of Shakespeare's comic modes, from the grotesque to the miraculous, and on theoretical approaches to the comic.

Lectures, seminar, 3 hours per week.

Prerequisite: one of one ENGL credit numbered 1(alpha)90 to 1(alpha)99, LART (GBLS) 1F90, MARS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL (GBLS) 2Q94 and GBLS 2P82.

ENGL 2P83

Shakespeare's Tragedies

(also offered as LART 2P83)

Shakespeare's development of tragedy as a genre in the context of early modern aesthetic and cultural concerns. Attention to recent theoretical approaches.

Lectures, seminar, 3 hours per week.

Prerequisite: one of one ENGL credit numbered 1(alpha)90 to 1(alpha)99, LART (GBLS) 1F90, MARS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL (GBLS) 2Q95 and GBLS 2P83.

ENGL 2P84

Non-Shakespearean Drama in England, 1576-1642

Variety of dramatic genres written for the playhouses of early modern London, including plays by Marlowe, Dekker, Jonson, Middleton, Massinger and Ford.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, MARS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2Q98 and 2V91.

ENGL 2Q99

Women in World Literature

(also offered as INTC 2Q99 and WISE 2Q99)

Feminist perspectives on representations of women and their writings focusing on Western and/or world literature.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, INTC (INTL) 1F90, WISE 1F90 or permission of the instructor.

* ENGL 2V20-2V29

Studies in Writing by Women

(also offered as WISE 2V20-2V29)

Selected topics in women's writing.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, WISE 1F90 or permission of the instructor.

ENGL 2V70-2V79

English Area Studies

Studies in a specialized area of English literature.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ENGL 2V90-2V99.

ENGL 3P06

Creative Writing: Short Fiction

(also offered as WRIT 3P06)

The craft of short fiction writing.

Seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: one credit from ENGL 1(alpha)90 to 1(alpha)99, WRIT 1(alpha)80 to 1(alpha)99.

Note: students must apply in writing, with portfolio, at least four weeks before the beginning of classes. Details from the Department.

ENGL 3P07

Creative Writing: Poetry

(also offered as WRIT 3P07)

The craft of poetry writing.

Seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: one credit from ENGL 1(alpha)90 to 1(alpha)99, WRIT 1(alpha)80 to 1(alpha)99.

Note: students must apply in writing, with portfolio, at least four weeks before the beginning of classes. Details from the Department.

ENGL 3P18

True Stories: The Art and Craft of Literary Journalism

(also offered as WRIT 3P18)

History and theory of narrative non-fiction from Daniel Defoe to Susan Orlean; techniques of narrative craft in the telling of factual stories.

Lectures, seminar, 3 hours per week.

Prerequisite: one and one-half ENGL, COMM, PCUL or WRIT credits numbered 2(alpha)00 or above.

ENGL 3P20

Spenser and the Age of Elizabeth

Elizabethan literature of the 1590s emphasizing Spenser.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P22

The Literature of Milton's Time

Poetry and prose from the Civil War to the early Restoration period emphasizing Milton.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P25

Restoration and Augustan Literature

Poetry, drama, fiction and non-fiction prose 1660-1740 by such writers as Dryden, Behn, Pope, Swift and Montagu.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P28

Rhetorical Analysis

(also offered as IASC 3P28 and WRIT 3P28)

Analysis of literary and non-literary texts using categories, insights and practices of classical and

contemporary rhetorical studies. Texts include poetry, fiction, drama, journalism, scientific and political writing, and advertising. Attention to the rhetoric of public spaces, issues of social justice, and the building and maintenance of human communities.

Lectures, seminar, 3 hours per week.

Prerequisite: two ENGL or one WRIT credit numbered 2(alpha)00 or above or permission of the instructor.

ENGL 3P30

Early Victorian Literature

Poetry, fiction and prose to the 1860s, including Tennyson, the Brontës, Arnold, Dickens and the Brownings.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P31

Later Victorian Literature

Poetry, fiction and prose from the pre-Raphaelites to the end of the century, including the Rossettis, Meredith, Swinburne, Pater, Hardy and Wilde.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P38

Modernism

Modernist writing in English, from its experimental beginnings through its engagement with radical social thought in the 1960s.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

* ENGL 3P39

Contemporary Literature in English

(also offered as IASC 3P39)

The postmodern period emphasizing the forms, approaches and cultural responses that have characterized writing in English in the later 20th century.

Lectures, seminar, 3 hours per week.

Prerequisites: one of two ENGL credits numbered 2(alpha)00 to 2(alpha)99, IASC 2P57 and 2P70 or permission of the instructor.

ENGL 3P40

The 18th-Century Novel

The rise of the novel and its development 1700 to 1830 by such writers as Defoe, Richardson, Haywood, Fielding, Goldsmith, Edgeworth, Burney and Austen.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P41

Gothic Writing

The gothic in novels, poetry, drama and non-fiction prose from its beginnings to the turn of the 20th century by such writers as Burke, Radcliffe, Lewis, the Shelleys, the Brontës and Stoker.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P42

The 19th-Century Novel

Emergence of the novel as the pre-eminent literary form emphasizing engagement with social issues of the period and on realism as a means of representing human experience. May include such writers as Dickens, Gaskell, Eliot, Thackeray, Hardy and James.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P43

Gothic Traditions since 1900

The gothic in fiction, non-fiction prose, and popular culture from the turn of the 20th century to the present by such figures as Stoker, Peake, Hitchcock, King, Carter, Rice and Craven.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P45

Modern Poetry and Poetics

Poetry of the 20th and 21st centuries emphasizing the relationship between form and ideas in poems that investigate the central aesthetic, intellectual and political concerns of the modern period.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P46

Poetry of Edge and Margin

Radical poetry in the 20th and 21st centuries emphasizing experiment and dissent. Poetic communities; ways in which poetry is produced and distributed in different settings and forms.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P61

Literary Movements in America

Movement or tradition in American literature organized around a school of representation or a cultural tradition such as Hispanic, Asian, African American or Native Literatures.

Lectures, seminar, 3 hours per week.

Prerequisite: two ENGL credits numbered 2(alpha)00 or above or permission of the instructor.

ENGL 3P63

Literature of the American South

Literary traditions of the states below the Mason-Dixon line, reflective of their distinctive social and political ideologies and discourses. May include such writers as Edgar Allan Poe, Mary Chestnut, Harriet Jacobs, Kate Chopin, Joel Chandler Harris, Zora Neale Hurston, William Faulkner, Tennessee Williams, Flannery O'Connor, Maya Angelou, and Bobbie Ann Mason.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P66

Filming Canadian Literature

Interplay between a wide range of Canadian literary texts and their film versions; includes adaptation and narrative theory.

Lectures, seminar, 4 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

* ENGL 3P90

Life Writing

(also offered as WRIT 3P90)

Cultural productions of the self; theories of and approaches to the study of life writing; texts may include memoirs, diaries, autobiographies and biographies.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P91

Introduction to Anglo-Saxon

Basics of the language; selections from some of the earliest English prose and verse.

Seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P92

Anglo-Saxon Poetry

Contexts and conventions of the earliest English poetry. Includes such poems as *Maldon*,

Wanderer, Seafarer, Judith, Wife's Lament, Dream of the Rood and excerpts from *Beowulf*.

Seminar, 3 hours per week.

Prerequisite: ENGL 3P91.

* ENGL 3P94

Literary Criticism

(also offered as LART 3P94)

Literary criticism from Aristotle to Brooks and Leavis emphasizing enduring literary critical problems.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBL 3P94.

ENGL 3P95

Romance and Visionary Literature of the late Middle Ages

Such texts as *Sir Gawain and the Green Knight*, *The Pearl* from Langland's *Piers the Plowman*, Sir Thomas Malory's account of the rise and fall of the Round Table.

Seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

ENGL 3P96

Old Norse: Language and Literature I

The Old Norse language; introduction to the prose, poetry, and culture of the Viking age.

Seminar, 3 hours per week.

Prerequisite: two credits numbered 2(alpha)00 or above, or permission of the instructor.

Note: the prerequisite courses should be from the Faculty of Humanities.

ENGL 3P97

Old Norse: Language and Literature II

Old Norse prose and poetry of the Viking age, including prose sagas, heroic poetry, and skaldic verse.

Seminar, 3 hours per week.

Prerequisite: ENGL 3P96.

ENGL 3V00-3V10

Topics in Children's Literature

Advanced Studies in writing for children and young people.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or above or permission of the instructor.

* ENGL 3V20-3V29

Advanced Studies in Writing by Women

(also offered as WISE 3V20-3V29)

Selected topics in women's writing at an advanced theoretical and methodological level.

Prerequisite: two ENGL credits numbered 2(*alpha*)00 or above, WISE 1F90 and one-half-credit from ENGL 2V20 to 2V29 or permission of the instructor.

ENGL 3V60-3V69
Special Topics in Canadian Literature

ENGL 3V70-3V79
Theoretical Issues in the Study of Literature

ENGL 3V90-3V99
English Area Studies
Studies in a specialized area of literature in English.

ENGL 4F99
Senior Research Tutorial or Thesis
Either tutorial combined with individual research or a thesis on a specialized topic or major author, of mutual interest to the student and the instructor.
Restriction: permission of the Chair.
Note: the Chair must approve proposals for projects and circulate approved projects to the Department.

* ENGL 4P00
Literature of the English Revolution
(also offered as HIST 4P00)
Writings from the 1640s to the Restoration, including Areopagitia, Eikon Baislike, female prophesy and Agreement of the People, from literary, critical, historical and theoretical perspectives.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BED (Intermediate/Senior), HIST (single or combined) and HIST (Honours)/BED (Intermediate/Senior) majors with approval to year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum major average of 60 percent or permission of the instructor and the Chair.

ENGL 4P10
Language and Discourse: Theory and Practice
(also offered as COMM 4P10 and WRIT 4P10)
Analysis of the relation between stylistic features and discursive contexts; encoding and enacting of social worlds and relations in text (both literary and non-literary); introduction to the field of discourse studies in general, critical discourse analysis in particular.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BED (Intermediate/Senior) COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and

WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4P15
Words on Words: Narratives of Language
(also offered as WRIT 4P15)
Critical history of the study of language from Socrates to Saussure and after. Theories of the nature and origin of language; the relations among reality, language, and thought, including the relationship between linguistic theories and literary representation in several historical periods.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BED (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4P20
Rhetoric and Cultural Studies
(also offered as WRIT 4P20)
How writing shapes and is shaped by the cultural, political, and economic spheres; the intersections between the fields of rhetoric and cultural studies and their contributions to writing production and analysis.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours) BED (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent average or permission of the instructor.

ENGL 4P30
Jane Austen
The work of Austen from a variety of critical and theoretical perspectives.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.
Completion of this course will replace previous assigned grade and credit obtained in ENGL 4V30.

ENGL 4P64
Contemporary Canadian Fiction: The Short Story
Short fiction by such writers as Munro, Gallant, Atwood and MacLeod.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.
Completion of this course will replace previous assigned grade and credit obtained in ENGL 4V64.

ENGL 4P65
Space and Place in Modern and Contemporary Canadian Poetry
Treatment of place in Canadian poetry of the 20th and 21st centuries including representation of urban, rural and wilderness environments. Focus on theories of place and space, the idea of home and the notion of lyric philosophy of contemporary Canadian nature poetry.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.
Completion of this course will replace previous assigned grade and credit obtained in ENGL 4V65.

ENGL 4P70
Structuralist and Poststructuralist Theory
Development of structuralist and poststructuralist thought from the late 19th century. Includes structuralist theoreticians such as Marx, de Saussure, Freud, Levi-Strauss and Barthes and poststructuralist theoreticians such as Derrida, Foucault and Lacan.
Seminar, 3 hours per week.
Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4P71
Contemporary Theoretical Approaches
Current and emerging theoretical approaches to the study of literature. Includes movements such as new historicism, postcolonial theory, psychoanalytic criticism, queer and gender theory, trauma theory, ecocriticism and posthumanism.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4P91

Animal Studies and Literature

Literary and cultural representations of animals from the early modern period to the 21st century in the context of Human-Animal Studies.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4P98

Senior Tutorial or Research Paper

Either tutorial combined with individual research or a research paper on a specialized topic or major author, of mutual interest to the student and the instructor.

Restriction: permission of the Chair.

Note: the Chair must approve proposals for projects and circulate approved projects to the Department.

ENGL 4P99

Senior Tutorial or Research Paper

Either tutorial combined with individual research or a research paper on a specialized topic or major author, of mutual interest to the student and the instructor.

Restriction: permission of the Chair.

Note: the Chair must approve proposals for projects and circulate approved projects to the Department.

ENGL 4V00-4V09

Topics in English Literature Before 1800

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V02

2009-2010: Milton, Toleration, Nationhood
Select poetry and prose by Milton in relation to early modern forms of nationhood and debates on cultural, religious and political otherness. Writing from literary, historical and theoretical approaches, and representations of such groups as the Irish, the Spanish, the

Amerindians, Jews, European Catholics, Muslims and dissenters in England and the New World.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V04

2009-2010: Early Modern Textual Collection

Book history, focusing on the varieties of textual collection important to the early modern period: printed anthologies commonplace books, encyclopedic works, library catalogues and editions of an author's collected works. Expressive nature and rhetorical effects of various forms of textual collection. Authors studied may include Sidney, Montaigne, Shakespeare, Lanyer, Jonson and Herbert.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V05

2009-2010: The First Century in Print: 1473-1573

Examination of early modern cultures of reading and writing as they existed outside conventionally literary genres of the first century of print in England. Context include print as technology and industry, humanism, religious controversy and linguistic nationalism.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V07

2009-2010: Medieval British Literature: Texts and Conquests

Participation of British texts in colonial struggles among various ethnic and racialized groups in the late Middle Ages within the British Isles and in non-European countries. Includes Arthurian romances, a witchcraft trial, an outrageous travelogue, an account of a crusade to the Holy Land, tales of allegedly vicious Jews and Muslims, and some current theoretical readings.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4, and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V30-4V39

Topics in 19th-Century Literature

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V35

2009-2010: Reviving Arthur: Tennyson's Idylls of the King

Situating the poetry in the context of the era's publication practices, imperialist and feminist discourses, the Arthurian revival, and extra-literary representations of Tennyson's characters.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4, and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V40-4V49

Topics in Contemporary Literature

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V40

2009-2010: Jazz and Literature

Jazz as both subject of and formal influence on various literary forms, from its origins to today.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V41

2009-2010: Advanced Studies in Post-Colonial Literature

Advanced studies in literatures and theories of resistance and emergence focusing on literary responses to post-conflict conditions.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V46

2009-2010: Virginia Woolf

Selected writings: essays, diaries, major novels.
Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V60-4V69

Topics in Contemporary Canadian Writing

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V70-4V79

Text and Context

Topics in literature and intellectual history.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V90-4V99

English Area Studies

Studies in a specialized area of literature in English.

Restriction: open to ECUL, ENGL (single or combined) and ENGL (Honours)/BED (Intermediate/Senior) majors with approval to Year 4 (honours) and to EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

ENGL 4V90

2009-2010: Writing the Environment

(also offered as WRIT 4V90)

Creative writing and an examination of theoretical and literary texts concerning the relationship between literature and the environment.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BED (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

WRITING, RHETORIC AND DIS-COURSE STUDIES

WRIT 1P93

Academic Writing for the Social Sciences

Rhetorical analyses of research genres, subgenres and their functions; Social Sciences documentation conventions; how and why research practices and related styles might differ across disciplinary fields.

Note: this course is offered on-line.

Completion of this course will replace previous assigned grade and credit obtained in WRIT 1P94.

WRIT 1P94

Introduction to Academic Writing

Rhetorical analyses of the research genres, subgenres and their functions; how and why research practices and related styles differ across disciplines.

Lectures, lab, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in WRIT 1P93.

WRIT 1P96

Introduction to Writing, Rhetoric and Professional Discourse

Contexts and conventions of workplace and public genres of writing; selected rhetorical theories; assignments modelled on creative, academic, and professional texts.

Lectures, lab, 3 hours per week.

Restriction: open to EWRT majors and minors until date specified in Registration guide.

* WRIT 2P14

Technical Writing

(also offered as COMM 2P14)

Processes of technical writing and editing. Document design for scientific, corporate and industrial communication. Practical experience in the production of technical documents.

Lectures, lab, 3 hours per week.

Prerequisite: one credit from WRIT 1(alpha)80 to 1(alpha)99, ENGL 1(alpha)90 to 1(alpha)99, COMM 1F90 or permission of the instructor.

* WRIT 2P16

Communication for Organizations

(also offered as COMM 2P16)

Theory, strategies and practice of writing for both business and public organizations.

Lectures, lab, 3 hours per week.

Prerequisite: one credit from WRIT 1(alpha)80 to 1(alpha)99, COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* WRIT 2P18

Reporting and News Writing for Mass Media
(also offered as COMM 2P18 and PCUL 2P18)

News gathering, writing, and editing for print and electronic media; journalistic style and conventions; interviewing and other information-gathering techniques; editing basics.

Lectures, lab, 3 hours per week.

Restriction: open to EWRT, COMM, PCUL majors and WRIT minors until date specified in Registration guide.

Prerequisite: one credit from WRIT 1(alpha)80 to 1(alpha)99, COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, PCUL 1F92 or permission of the instructor.

WRIT 2P20

Identity, Identification and the Manifesto

Relationship between individual and community identity as expressed in writing; history of identification and manifestos; the aesthetic and political generic constraints of writing manifestos.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from WRIT 1(alpha)80 to 1(alpha)99, ENGL 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* WRIT 2P28

Persuasive Discourse: Theoretical Foundations

(also offered as ENGL 2P28 and IASC 2P28)

Classical foundations, historical developments and contemporary theory. Relation of language use to cultural practices, ethics, identity and power. Analysis of various genres of texts and persuasive writing in popular culture and mass media.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from WRIT 1(alpha)80 to 1(alpha)99, COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, IASC 1F00 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in WRIT (ENGL) 2P27.

* WRIT 3P06

Creative Writing: Short Fiction

(also offered as ENGL 3P06)

The craft of short fiction writing.

Seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: one credit from WRIT 1(*alpha*)80 to 1(*alpha*)99, ENGL 1(*alpha*)90 to 1(*alpha*)99.

Note: students must apply in writing, with portfolio, at least four weeks before the beginning of classes. Details from the Department.

* WRIT 3P07

Creative Writing: Poetry

(also offered as ENGL 3P07)

The craft of poetry writing.

Seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: one credit from WRIT 1(*alpha*)80 to 1(*alpha*)99, ENGL 1(*alpha*)90 to 1(*alpha*)99.

Note: students must apply in writing, with portfolio, at least four weeks before the beginning of classes. Details from the Department.

WRIT 3P16

Organizational Discourses

Relations between culture, discourse and the writing produced in organizational settings; rhetorics of business, management, law, science and media; the role of writing in the production and maintenance of socio-cultural interests and values.

Lectures, seminar, 3 hours per week.

Prerequisite: one of WRIT 2P14, 2P16, COMM 2P65 or permission of the instructor.

* WRIT 3P18

True Stories: The Art and Craft of Literary Journalism

(also offered as ENGL 3P18)

History and theory of narrative non-fiction from Daniel Defoe to Susan Orlean; techniques of narrative craft in the telling of factual stories.

Lectures, seminar, 3 hours per week.

Prerequisite: one and one-half WRIT, COMM, ENGL or PCUL credits numbered 2(*alpha*)00 or above.

* WRIT 3P28

Rhetorical Analysis

(also offered as ENGL 3P28 and IASC 3P28)

Analysis of literary and non-literary texts using categories, insights, and practices of classical and contemporary rhetorical studies. Texts include poetry, fiction, drama, journalism, scientific and political writing, and advertising. Attention to the rhetoric of public spaces, issues of social justice, and the building and maintenance of human communities.

Lectures, seminar, 3 hours per week.

Prerequisite: one WRIT or two ENGL credits numbered 2(*alpha*)00 or above or permission of the instructor.

WRIT 3P63

Desktop Publishing and Design

(also offered as COMM 3P63)

Practicum in desktop publishing, layout and design.

Lectures, lab, 3 hours per week.

Restriction: open to EWRT and COMM (single or combined) majors and EWRT minors with a minimum of 9.0 overall credits.

Prerequisite: COMM 2F50, one WRIT credit numbered 2(*alpha*)00 or above or permission of the instructor.

* WRIT 3P90

Life Writing

(also offered as ENGL 3P90)

Cultural productions of the self; theories of and approaches to the study of life writing; texts may include memoirs, diaries, autobiographies and biographies.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(*alpha*)00 to 2(*alpha*)99 or permission of the instructor.

* WRIT 3P98

Reporting Arts and Culture

(also offered as STAC 3P98)

Contexts, genres, conventions, and practices of arts journalism in Canada; critical reading of selected texts in arts journalism; practical experience researching and writing arts news, reviews, features, and publicity for print and electronic media.

Lectures, seminar, 3 hours per week.

Prerequisite: two credits numbered 2(*alpha*)00 or above from WRIT, COMM, ENGL, PCUL, STAC or permission of the instructor.

WRIT 3P99

Interpretive and Critical Writing in the Arts

(also offered as STAC 3P99 and VISA 3P99)

Principles and methodologies for the written presentation and representation of works of art, artists' practice and events within general and specific disciplinary contexts, discourses and frameworks. Examples from across the arts; practice-based projects from real world events and performances. Orientation to specialized publics in print and other media.

Seminar, 3 hours per week.

Restriction: students must have a minimum 10.0 overall credits or permission of the instructor.

Note: event attendance is required; events fees required.

WRIT 3V90-3V99

Topics in Writing and Culture

WRIT 4F99

Independent Studies in Writing, Rhetoric, and Discourse

Research project related to writing chosen by the student in consultation with a faculty member.

Restriction: permission of the Chair.

Note: the student will produce a substantial body of work on a writing and communications issue. Students must have a minimum 75 percent average in two WRIT credits numbered 2(*alpha*)00 or above. The Chair must approve proposals for projects and circulate approved projects to the Department.

* WRIT 4P10

Language and Discourse: Theory and Practice
(also offered as COMM 4P10 and ENGL 4P10)

Analysis of the relation between stylistic features and discursive contexts; encoding and enacting of social worlds and relations in text (both literary and non-literary); introduction to the field of discourse studies in general, critical discourse analysis in particular.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BEd (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined) and LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

* WRIT 4P15

Words on Words: Narratives of Language

(also offered as ENGL 4P15)

Critical history of the study of language from Socrates to Saussure and after. Theories of the nature and origin of language; the relations among reality, language, and thought, including the relationship between linguistic theories and literary representation in several historical periods.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BEd (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

* WRIT 4P20

Rhetoric and Cultural Studies

(also offered as ENGL 4P20)

How writing shapes and is shaped by the cultural, political, and economic spheres; exploration of the intersections between the fields of rhetoric and cultural studies and their contributions to writing production and analysis.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BED (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

relationship between literature and the environment.

Seminar, 3 hours per week.

Restriction: open to ECUL, ENGL (single or combined), ENGL (Honours)/BED (Intermediate/Senior), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE majors and WRIT minors with approval to Year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum 60 percent major average or permission of the instructor and the Chair.

WRIT 4P98

Independent Studies in Writing

Research project related to writing chosen by the student in consultation with a faculty member.

Restriction: permission of the Chair.

Note: the student will produce a substantial body of work on a writing and communications issue. Students must have a minimum 75 percent average in two WRIT credits numbered 2(alpha)00 or above. The Chair must approve proposals for projects and circulate approved projects to the Department.

WRIT 4P99

Independent Studies in Writing

Research project related to writing chosen by the student in consultation with a faculty member.

Restriction: permission of the Chair.

Note: the student will produce a substantial body of work on a writing and communications issue. Students must have a minimum 75 percent average in two WRIT credits numbered 2(alpha)00 or above. The Chair must approve proposals for projects and circulate approved projects to the Department.

WRIT 4V90-4V99

Writing Area Studies

Studies is a specialized area of writing.

* WRIT 4V90

2009-2010: Writing the Environment

(also offered as ENGL 4V90)

Creative writing and an examination of theoretical and literary texts concerning the

Film Studies

This program is offered through the Department of Communication, Popular Culture and Film

Chair

Russell Johnston

Academic Adviser

Penni Lafleur

General Information

Administrative Assistant

Bridget Cahill

905-688-5550, extension 4290

Scotiabank Hall 344

<http://www.brocku.ca/cpcf/>

The Department of Communication, Popular Culture and Film offers three separate programs of study: Communication Studies, Film Studies and Popular Culture. A four-year program leading to the BA Honours degree and a three-year program leading to the BA Pass degree is offered in all three programs. In addition, the Department is involved in programs with community colleges which offer students the opportunity to earn an honours degree in Communication Studies and a college diploma or certificate.

Film Studies is a sequence of critical and historical courses that examines a variety of approaches to film. The courses explore the nature of film language and develop an analytical perspective on film as both an art and a medium. Other courses explore issues and theories in popular culture. Students may have opportunities to engage in media production in selected upper year courses.

Articulation Agreement

BA with Major

Advanced Film-Making-Fanshawe College

Year 1

- FILM 1F94
- COMM 1F90
- one Sciences context credit
- one Social Sciences context credit
- one elective credit (APCO 1P00 or 1P01 recommended)

Year 2

- FILM 2F90, 2P10, 2P54, 2P56, 2P91 and 2P94
- one credit from FILM 2P20, 2P21, COMM 2P22
- one-half elective credit

Year 3

- FILM 3F28 and 3P91
- one credit from FILM 3P20, 3P54, 3P56
- one FILM credit numbered 2(alpha)90 or above or PCUL 2F92
- one FILM credit numbered 3(alpha)90 or above
- one-half elective credit

Year 4

- taken at Fanshawe College

Broadcast Journalism-Television News-Fanshawe College

Year 1

- FILM 1F94
- COMM 1F90
- one Sciences context credit
- one Social Sciences context credit
- one elective credit (APCO 1P00 or 1P01 recommended)

Year 2

- FILM 2F90, 2P10, 2P54, 2P56, 2P91 and 2P94
- one credit from FILM 2P20, 2P21, COMM 2P22
- one-half elective credit

Year 3

- FILM 3F28 and 3P91
- one credit from FILM 3P20, 3P54, 3P56
- one FILM credit numbered 2(alpha)90 or above or PCUL 2F92
- one FILM credit numbered 3(alpha)90 or above
- one-half elective credit

Year 4

- taken at Fanshawe College

Broadcast Television, Digital Post-Production-Fanshawe College

Year 1

- FILM 1F94
- COMM 1F90
- one Sciences context credit
- one Social Sciences context credit
- one elective credit (APCO 1P00 or 1P01 recommended)

Year 2

- FILM 2F90, 2P10, 2P54, 2P56, 2P91 and 2P94

- one credit from FILM 2P20, 2P21, COMM 2P22
- one-half elective credit

Year 3

- FILM 3F28 and 3P91
- one credit from FILM 3P20, 3P54, 3P56
- one FILM credit numbered 2(alpha)90 or above or PCUL 2F92
- one FILM credit numbered 3(alpha)90 or above
- one-half elective credit

Year 4

- taken at Fanshawe College

Program Notes

1. WRIT 1P93 is recommended.
2. Year 3 courses are normally restricted to students with at least three 2(alpha)00 credits or permission of the instructor.
3. FREN 1F90 is strongly recommended for Honours students intending to continue their studies at the graduate level.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits may be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In this 20 degree credit BA with Major degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least four and one-half credits must be numbered 2(alpha)90 or above; at least one and one-half credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- FILM 1F94
- COMM 1F90 or PCUL 1F92
- one Social Sciences context credit
- one Sciences context credit
- one elective credit (see program note 1)

Year 2

- FILM 2F90, 2P10, 2P54, 2P56 and 2P91
- one credit from FILM 2P20, 2P21, 2P94, COMM 2F50, 2P22, PCUL 2F92
- one elective credit

Year 3

- FILM 3P20, 3P54, 3P56 and 3P91
- FILM 3P93 or 3P95
- one and one-half credits from FILM 3F28, 3P21, 3P93, 3P94, 3P95, 3P96, 3P97, 3P98, 3Q94, COMM 3P14
- one elective credit

Year 4

- Two credits from FILM 4P30, 4P31, 4V50-4V79
- two credits from FILM 3P93, 3P94, 3P95, 3P96, 3P97, 3P98, 3Q94, 4F80, 4F99, PCUL 4P23, 4P34
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Students may take a combined major in Film Studies and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

- FILM 1F94, 2F90, 2P10, 2P91, and 3P91
- FILM 2P54 or 2P56
- three credits from FILM 2P54, 2P56, 2P94, 3F28, 3P20, 3P21, 3P54, 3P56, 3P94, 3P97, 3P98, 3Q94, 4F80, 4F99
- one credit from FILM 4P30, 4P31, 4V50-4V79

Pass

- FILM 1F94, 2F90, 2P10, 2P91 and 3P91
- FILM 2P54 or 2P56
- one credit from FILM 2P20, 2P21, 3F28, 3P20, 3P21, 3P54, 3P56, 3P93, 3P94, 3P95, 3P96, 3P97, 3P98, 3Q94

Advanced Film Making-Fanshawe College

The Advanced Film Making program involves courses offered through Brock University and Fanshawe College of Applied Arts and Technology. This four-year program combines courses and training in Advanced Film Making at Fanshawe College with a With Major Film Studies degree at Brock. The program caters to individuals who wish to have a career in film production. This program caters to individuals who are career-oriented, with a goal of working in the film industry. By providing both a strong academic background, along with applied knowledge and training, students who graduate from this program are well-equipped to work in all aspects of filmmaking, including filming, directing, producing, and editing as well as project management and marketing. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a Advanced Film Making post-graduate certificate from Fanshawe College. Gaining both a degree and certificate would ordinarily involve attending college after gaining a university degree, but the Brock and Fanshawe program combines the two in a single integrated package that can be completed in four years. Applicants must complete Year 1 with a minimum 70 per cent major average and a minimum 70 per cent overall average to be considered for admission to the program and must have no more than 8.0 overall credits, at least 4.0 of which must have been earned at Brock. Completion of the Brock Foundations in Leadership Practicum Series is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Advanced Film Making program are available at www.brocku.ca/fss/collaborative.php.

Broadcast Journalism-Television News-Fanshawe College

The Broadcast Journalism-Television News program involves courses offered through Brock University and Fanshawe College of Applied Arts and Technology. This four-year program combines courses and training in Broadcast Journalism-Television News at Fanshawe College with a With Major Film Studies degree at Brock. This program caters to individuals who are career-oriented, with a goal of working in the television industry. By providing both a strong academic background, along with applied knowledge and training, students who graduate from this program are well-equipped to work in a variety of aspects of television including television news production, presentation, reporting, and editing. Experience is gained at Fanshawe through the use of advanced equipment and labs at Fanshawe's

state-of-the-art Broadcast Centre. Students also take part in a field placement and an internship while at Fanshawe College. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a Broadcast Journalism-Television News post-graduate certificate from Fanshawe College. Gaining both a degree and certificate would ordinarily involve attending college after gaining a university degree, but the Brock and Fanshawe program combines the two in a single integrated package that can be completed in four years. Applicants must complete Year 1 with a minimum 70 per cent major average and a minimum 70 per cent overall average to be considered for admission to the program and must have no more than 8.0 overall credits, at least 4.0 of which must have been earned at Brock. Completion of the Brock Foundations in Leadership Practicum Series is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Broadcast Journalism-Television News program are available www.brocku.ca/fss/collaborative.php.

Broadcast Television, Digital Post-Production-Fanshawe College

The Broadcast Television-Digital Post-Production program involves courses offered through Brock University and Fanshawe College of Applied Arts and Technology. This four-year program combines courses and training in Broadcast Television-Digital Post-Production at Fanshawe College with a degree in Film Studies at Brock. This program caters to individuals who are career-oriented, with a goal of having a career in the production industry. By providing both a strong academic background, along with applied knowledge and training, students who graduate from this program are well-equipped to work in all aspects of digital post-production including video/film editing, visual effects, compositing, and motion graphics. Experience is gained at Fanshawe through the use of advanced digital equipment and labs at Fanshawe's state-of-the-art Broadcast Centre. At the end of the program, students will have developed a portfolio to illustrate skills and knowledge that have been gained during studies at Brock and Fanshawe. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a Broadcast Television-Digital Post-Production post-graduate certificate from Fanshawe College. Gaining both a degree and certificate would ordinarily involve attending college after gaining a university degree, but the Brock and Fanshawe program combines the two in a single

integrated package that can be completed in four years. Applicants must complete Year 1 with a minimum 70 per cent major average and a minimum 70 per cent overall average to be considered for admission to the program and must have no more than 8.0 overall credits, at least 4.0 of which must have been earned at Brock. Completion of the Brock Foundations in Leadership Practicum Series is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Broadcast Television-Digital Post-Production program are available www.brocku.ca/fss/collaborative.php.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

FILM 1F94

Introduction to Film Studies

Critical and historical approaches to world cinema. Close analysis of selected films in relation to their cultural contexts.

Lectures, seminar, 3 hours per week; plus weekly lab.

FILM 2F90

Film History

History of cinema as a medium, industry and art form from its origins, including Hollywood cinema and major international movements.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 1F94.

FILM 2P10

Film Research Methods

Introduction to research and writing in the areas of film criticism, film history and film theory.

Lectures, lab, seminar, 5 hours per week.

Prerequisite: FILM 1F94.

Co-requisite: FILM 2F90.

FILM 2P20

Popular Culture Theory and Research Methods

(also offered as COMM 2P20 and PCUL 2P20)

Theoretical and methodological approaches to the study of various forms of popular culture. Critical and research skills specific to studies in popular culture.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to FILM (single or combined), COMM and PCUL majors until date specified in Registration guide.

Prerequisite: one of FILM 1F94, CANA 1F91, COMM 1F90, PCUL 1F92 or permission of the instructor.

FILM 2P21

Canadian Popular Culture

(also offered as COMM 2P21 and PCUL 2P21)

Survey of the media in Canada. Studies in the popular arts, with special reference to the ways that institutions (CBC, NFB) and selected artists identify and express a Canadian cultural imagination.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to FILM (single or combined), COMM and PCUL majors until date specified in Registration guide.

Prerequisite: FILM 2P20 or permission of the instructor.

* FILM 2P54

Documentary Film

(also offered as COMM 2P54 and SOCI 2P54) History, theory, aesthetics and cultural implications of documentary film and other visual media.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of FILM 1F94, COMM 1F90, SOCI 1F90 or permission of the instructor.

* FILM 2P56

Canadian Cinema

(also offered as COMM 2P56 and PCUL 2P56)

Critical and historical study of Canadian cinema.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of FILM 1F94, COMM 1F90, PCUL 1F92 or permission of the

instructor.

FILM 2P91

Early Film Theory

Major early film theories including realism, formalism, and surrealism. Application of the theories to selected films.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 1F94 or permission of the Department.

* FILM 2P94

Popular Cinema

(also offered as COMM 2P94 and PCUL 2P94)

Popular cinema as art and institution emphasizing film genres and cultural contexts.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 1F94 or PCUL 1F92.

* FILM 3F28

Basic Production: Video

(also offered as COMM 3F28)

Introduction to the theory and practice of video techniques: critique of videos and production work.

Workshops, seminar, 3 hours per week; additional production time as required.

Restriction: permission of the Department.

Prerequisite: two FILM credits.

Note: enrolment limited to 15 students. Materials fee required.

FILM 3P18

Audience Studies

(also offered as COMM 3P18 and PCUL 3P18)

Theoretical and methodological approaches to the understanding of audiences for media and cultural products, including print, sound, film, broadcasting, and digital media.

Lectures, seminar, 3 hours per week.

Prerequisite: FILM 2F90 or COMM 2P15 and FILM 2P20.

* FILM 3P20

Television Studies

(also offered as COMM 3P20 and PCUL 3P20)

Historical, theoretical and critical approaches to television.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to FILM (single or combined), COMM, PCUL and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: FILM 2F90, 2P20 or permission of the instructor.

* FILM 3P21

Canadian Television

(also offered as COMM 3P21 and PCUL 3P21)

Historical, theoretical and critical approaches to Canadian television.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to FILM (single or combined), COMM, PCUL and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: FILM 3P20 or permission of the instructor.

* FILM 3P54

Issues in Documentary Film

(also offered as COMM 3P54 and SOCI 3P54)

Advanced studies in selected aspects of documentary film and other visual media.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2P54.

* FILM 3P56

Issues in Canadian Cinema

(also offered as COMM 3P56)

Advanced studies in selected aspects of Canadian cinema.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2P56.

FILM 3P91

Contemporary Film Theory

Current film theories including semiotics, psychoanalysis and postmodernism. Application of the theories to selected films.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2P91.

FILM 3P93

Authorship in the Cinema

Issues of personal and collaborative creativity in film through the study of the style, themes and development of selected film makers.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2F90 or permission of the instructor.

* FILM 3P94

Film Genre

(also offered as COMM 3P94 and PCUL 3P94)

Genre theory and its application to popular film.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2F90, 2P20 and 2P21 or permission of the instructor.

FILM 3P95

National Cinema

Study of selected national cinemas emphasizing their relationship to national cultural traditions.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2F90 or permission of the instructor.

FILM 3P96

Issues in Popular Culture

(also offered as COMM 3P96 and PCUL 3P96)

Specialized studies in popular culture and its role in specific social, historical or theoretical contexts.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2F90 or FILM 2P20 and 2P21.

* FILM 3P97

Gender, Race and Class in Cinema to the 1960s

(also offered as COMM 3P97 and WISE 3P97)
Representation of gender, sexuality, race and class, and implications of spectatorship and ideology.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 2P91, or permission of the instructor.

* FILM 3P98

Gender, Race and Class in Contemporary Cinema

(also offered as COMM 3P98 and WISE 3P98)
Representation of gender, sexuality, race and class via ideology, feminism, queer theory and spectatorship in film and video texts since the 1960s.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 2P91, or permission of the instructor.

* FILM 3Q94

Television Genres

(also offered as COMM 3Q94 and PCUL 3Q94)

Genre theory and its application to popular television.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: FILM 2F90, FILM 2P20 and 2P21 or permission of the instructor.

FILM 3V50-3V59

Special Topics in Film Studies

Lectures, lab, seminar, 4 hours per week.

Prerequisites: FILM 2F90 and 2P91 or permission of the instructor.

FILM 4F80

Directed Reading

Directed individual or group reading in an area of Film Studies.

Restriction: open to FILM (single or combined) majors with a minimum of 14.0 overall credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Department.

Note: students are responsible for arranging their course with a faculty member, in consultation with the Academic Adviser and must submit a written proposal before registration. The reading may not be on the topic of the student's FILM 4F99 thesis.

FILM 4F99

Honours Thesis

Thesis on a topic of mutual interest to the student and the instructor, with a critical, historical or contemporary focus.

Restriction: open to FILM (single or combined) majors with a minimum of 14.0 overall credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Department.

Prerequisites: FILM 4P30 and 4P31 (may be taken concurrently).

Note: to register in the Honours thesis, the student must consult the Undergraduate Program Adviser about topics, department regulations and the selection of an adviser.

FILM 4P30

Theories of Mass Culture

(also offered as COMM 4P30 and PCUL 4P30)

Studies in cultural theory and its application to mass media texts, with special reference to the work of the Frankfurt School, French Structuralism and British Cultural Studies.

Lectures, seminar, 3 hours per week.

Restriction: open to FILM (single or combined) and PCUL until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 (honours) or permission of the instructor.

* FILM 4P31

Theories of the Visible

(also offered as COMM 4P31 and PCUL 4P31)

Central 20th-century developments in the theories of visibility and their relevance to the field of media studies.

Lectures, seminar, 3 hours per week.

Restriction: open to FILM (single or combined) and PCUL majors until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 (honours) or permission of the instructor.

FILM 4P34

Taste and Cultural Politics

(also offered as COMM 4P34 and PCUL 4P34)

Application of cultural theories to the analysis of taste, distinction, class, cultural standards and

moral panics, transgression and trash culture.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL majors until date specified in Registration guide. After that date open to COMM and FILM (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

FILM 4V50-4V59

Special Topics in Film Studies

Seminar, 3 hours per week.

* FILM 4V53

2009-2010: Representing Crime in Canada

(also offered as COMM 4V53 and PCUL 4V53)

Canadian popular novels, films and television programs depicting crime and justice in Canada.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to FILM (single and combined), COMM and PCUL majors with approval to year 4 (honours) or permission of the instructor.

FILM 4V60-4V69

Issues in Film History

Specialized studies in Film History addressing issues such as aesthetics, ideological and theoretical concerns across a range of periods and cultures.

* FILM 4V61

2009-2010: Conventions of Film Realism

(also offered as COMM 4V61 and PCUL 4V61)

How representation and perception of "reality" have evolved with technology and aesthetics, from the LumiPress to reality television.

Lectures, lab, seminar, 4 hours per week.

Restriction: open to FILM (single or combined), COMM and PCUL majors with approval to year 4 (honours) or permission of the instructor.

FILM 4V70-4V79

Issues in International Cinema

Specialized studies of the historical and social contexts influencing trends and developments in international cinema.

French

This program is offered through the Department of Modern Languages, Literatures and Cultures

Chair

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The Department aims to provide students with a thorough and comprehensive knowledge of spoken and written French, as well as French and Francophone literatures and cultures. In addition to the courses taught in French, the Department offers a series of courses taught in English (designated MLLC) that may be acceptable for credit toward a degree in French.

The Department favours and facilitates participation by students of French at all levels in Spring/Summer French immersion programs offered in France and Québec.

The Department does not recognize challenge for credit nor on-line or distance education courses offered by other institutions.

Program Notes

1. Students with Ontario 4U/M standing or equivalent in French take FREN 1F90, and may not take FREN 1F00 or 1F50 without permission of the Department. Permission is granted only in the most exceptional cases. Français and Immersion students may take FREN 2F00 and 2F03 with permission of the Department; normally, they take FREN 1F90.

2. Students without Ontario 4U/M standing or equivalent take FREN 1F00 or 1F50 according to their background. Students with Ontario grade 9 French or equivalent or less take FREN 1F00. Those with Ontario grade 10/11 or equivalent take FREN 1F50. Those with FREN 1F00 who intend to take FREN 1F90 take FREN 1F50.

3. FREN 1F00 and 1F50 are introductory language courses. Students who register in any of these courses must submit an official high school transcript to the instructor as proof of their level of competence in order to receive Departmental confirmation of registration before the end of the second week of classes (see Undergraduate Academic Calendar). Failure to do so will result in deregistration from the course.

4. Unless otherwise stated in the course description, courses numbered 2(alpha)00 or above are taught in French while courses numbered 1F90 and below are taught in French to the extent possible.

5. FREN 1F00 and 1F50 may be taken for degree credit, but cannot be used to meet requirements for major programs in French. However, FREN 1F50 may be included in a minor program in French.

6. French courses numbered 1F00, 1F50, 1F90, 2F00, 3P03 and 4P03 constitute a sequence. Once credit has been obtained in one of these courses, students are not allowed to take for credit a course in this sequence with a lower number. Students may not take two courses at different levels in the sequence during the same term. This regulation also applies to courses taken at other institutions.

7. Departmental courses noted as given in English may be included in major programs. Single Honours programs may include no more than two and one-half credits in such courses; single Pass programs may include no more than one and one-half credits in such courses; combined Pass programs may include no more than one credit in such courses. Combined Honours programs may include no more than one and one-half credits in such courses. If both combined Honours programs are chosen, from French, Italian or Spanish, one and one-half credits in each language is allowed.

8. The Department reserves the right to refuse admission to and/or credit for any of its language courses to a student who has, in the view of the Department, a level of competence unsuited to that course.

9. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be

numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- FREN 1F90 (see program note 1)
- one Sciences context credit
- one Social Sciences context credit
- two elective credits

Year 2

- FREN 2F00 and 2F03
- one FREN or MLLC credit numbered 2(alpha)00 or above (see program note 7)
- two elective credits

Year 3

- FREN 3P03
- two and one-half FREN or MLLC credits numbered 3(alpha)00 or above (see program note 7)
- two elective credits

Year 4

- FREN 4P03
- one FREN or MLLC credit numbered 3(alpha)00 or above (see program note 7)
- two and one-half FREN or MLLC credits numbered 4(alpha)00 or above (see program note 7)
- one elective credit

Concurrent BA (Honours)/BEd

The Department of Modern Languages, Literatures and Cultures and the Faculty of Education co-operate in offering a Concurrent five-year BA (Honours)/BEd program. The French BA (Honours)/BEd program combines the BA Honours program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7-12.) Refer to the Education - Concurrent BA (Honours)/BEd (Intermediate/Senior) program listing for further information.

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Students may take a combined major in French and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

Year 1

- FREN 1F90 (see program note 1)
- one credit from the co-major discipline
- one Sciences context credit
- one Social Sciences context credit
- one elective credit

Year 2

- FREN 2F00 and 2F03
- two credits from the co-major discipline
- one elective credit

Year 3

- FREN 3P03
- two FREN or MLLC credits numbered 3(alpha)00 or above (see program note 7)
- two credits from the co-major discipline
- one-half elective credit

Year 4

- FREN 4P03
- one FREN or MLLC credit numbered 3(alpha)00 or above (see program note 7)
- one FREN or MLLC credit numbered 4(alpha)00 or above (see program notes 7 and 9)
- two credits from the co-major discipline
- one-half elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Minor in French

Students in other disciplines may obtain a Minor in French within their degree program by completing the following courses with a minimum 60 percent overall average:

- FREN 1F90 and 2F00
- one FREN credit (see program note 5)
- one FREN literature and/or culture credit numbered 2(alpha)00 or above

Course Descriptions

Note: not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross-listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

FREN 1F00

Introductory French I

Basic grammar; acquisition of fundamental reading, writing, oral expression and comprehension skills.

Lectures, 3 hours per week.

Note: for students with limited or no background in French. Students with Ontario grade 10, 11, 4U/M French or equivalent, may not take this course.

Completion of this course will replace previous assigned grade and credit obtained in FREN 1F01, 1P01 and 1P02.

FREN 1F50

Introductory French II

Grammar study; development of reading, writing, oral expression and comprehension skills.

Lectures, 3 hours per week.

Prerequisite: Ontario Grade 10 French, Grade 11 French, FREN 1F00 or permission of the course co-ordinator.

Note: students with 4U/M French or equivalent may not take this course.

Completion of this course will replace previous assigned grade and credit obtained in FREN 1F01 and 1P03.

FREN 1F90

Intermediate French

Grammar review; literary, cultural and journalistic readings; practice in reading, writing, oral expression and comprehension.

Lectures, 3 hours per week.

Prerequisite: one of FREN 1P03, FREN 1F50, 4U/M French, Français, French immersion or equivalent or permission of the course co-ordinator.

Note: students must have a minimum 65

percent in order to enroll in year 2 French courses.

FREN 2F00

Grammar and Composition

Intensive grammar review; literary expression; composition; critical written and oral expression.

Lectures, 3 hours per week.

Prerequisite: FREN 1F90 (minimum 65 percent).

FREN 2F03

Literature and Culture: The French-Speaking World

Literature in its cultural contexts. Works from different genres, historical periods and cultural traditions. Dissertation, technical vocabulary, rhetorical terminology and interpretative concepts.

Lectures, 3 hours per week.

Co-requisite: FREN 2F00.

Note: students may not concurrently register in FREN 2F03 and any French course numbered 3(alpha)00 or higher.

Completion of this course will replace previous assigned grade and credit obtained in any French literature course numbered 3(alpha)00 or higher.

FREN 2P10

Introduction to the Linguistic Study of French

Basic concepts of linguistics through analysis of contemporary French as it is spoken and written throughout the francophone world. Topics may include phonetics, phonology, morphology, lexicology, syntax and semantics.

Lectures, 3 hours per week.

Prerequisite: FREN 1F90 (minimum 65 percent).

FREN 2P44

Children's Literature in French: The Picture Book and Beyond

Selection of texts representative of a variety of genres, including the picture book, fairytale, short story and novel emphasizing the contemporary period. Theory of children's literature. Picture books from France and other francophone regions emphasizing the contemporary period; theory of the picture book and its use in the classroom.

Lectures, 3 hours per week.

Co-requisite: FREN 2F00.

FREN 2P55

Francophone Cultures and Civilizations

Ideological, historical and cultural aspects of Francophone societies. Topics may include colonialism, issues in language, literature, the arts and gender.

Lectures, 3 hours per week.

Co-requisite: FREN 2F00.

Completion of this course will replace previous

assigned grade and credit obtained in FREN 2P95.

FREN 2P57

Phonetics and Phonology

Sound patterns of French. Articulatory, auditory and acoustic properties of human speech. Phonemic and non-phonemic (stress, intonation, rhythm) features.

Lectures, seminar, 3 hours per week.

Prerequisite: FREN 1F90 (minimum 65 percent).

Completion of this course will replace previous assigned grade and credit obtained in FREN 2P98.

FREN 2P65

Culture and Civilization of France to 1700

Art, music, architecture and aesthetics to 1700; intellectual trends; history, politics and society.

Lectures, 3 hours per week.

Co-requisite: FREN 2F00.

Completion of this course will replace previous assigned grade and credit obtained in FREN 2P99.

FREN 3P03

Composition and Stylistics

Advanced grammar and stylistics of contemporary French. Applications to composition.

Prerequisite: FREN 2F00 and 2F03.

FREN 3P45

Nineteenth-Century French Literature to 1850

Romanticism, Parnasse and other currents. Texts chosen from various genres. Authors may include Stendhal, Balzac, Vigny, Lamartine, Hugo, Musset.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

FREN 3P53

Twentieth-Century French Literature to 1935

Ideological and aesthetic perspectives. Texts chosen from various genres. Authors may include Proust, Gide, Claudel, Apollinaire, Breton.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

FREN 3P65

Culture and Civilization of France from 1700 to the Present

Art, music, architecture and aesthetics from the beginning of the 18th century to the present; intellectual trends; history, politics and society.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

FREN 3P73

Canadian Literature in French to 1939

Analysis of major texts chosen from various genres. Historical, sociological and ideological perspectives.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

FREN 3P74

Canadian Literature in French from 1939 to 1960

Analysis of major texts chosen from various genres. Historical, sociological and ideological perspectives.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

FREN 3P81

Seventeenth-Century French Literature

Baroque and Classicism; the "Grand Siècle" of Louis XIV. Texts chosen from various genres. Authors may include Corneille, Molière, Racine, Mme de La Fayette, La Fontaine, Pascal, Descartes.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P91.

FREN 3P82

Eighteenth-Century French Literature

Narrative, theatre and philosophical writing; critical voices, ideological concerns. Authors may include Montesquieu, Marivaux, Voltaire, Diderot, Rousseau, Beaumarchais, Laclos.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P92.

FREN 3P83

African Literature in French

French-language literary works of Africa. Historical, cultural, ideological and theoretical concerns. Authors may include Ahmadou Kourouma, Ousmane Sembène, Aminata Sow Fall.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P93.

FREN 3P84

Caribbean Literature in French

French-language literary works of the Caribbean. Historical, cultural, ideological and theoretical concerns. Authors may include Maryse Condé, René Depestre, Patrick Chamoiseau.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P94.

FREN 3P85

French Literature and Culture in Film

New Wave and popular cinema; adaptations of French novels; critical texts. Directors may include Godard, Truffaut, Resnais, Rohmer, Wargnier, Chabrol, Berri, Duras.

Lectures, 3 hours per week, plus film lab.

Prerequisite: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P95.

FREN 3P87

Maghrebian Literature in French

French-language literary works of the Maghreb via novels and short stories by Francophone writers from Algeria, Tunisia and Morocco. Authors may include Tahar Ben Jelloun, Driss Chraïbi, Assia Djebar, Albert Memmi.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P97.

FREN 3P88

Swiss and Belgian Literature in French since 1830

Evolution of Nationalism, Regionalism, Symbolism and Surrealism. Belgian authors may include Emile Verhaeren, Maurice Maeterlinck and Amélie Nothomb. Swiss authors may include Jacques Chessex, Philippe Monnier and Virgile Rossel.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

FREN 3P89

Contemporary Canadian Theatre in French

Background and traditions; analysis of selected plays and study of current directions.

Lectures, 3 hours per week.

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade and credit obtained in FREN 3P96.

FREN 4P03

Linguistic Approach to Textual Analysis

Syntax and semantics of French; theoretical applications to textual analysis of literary genres.

Lectures, 3 hours per week.

Restriction: open to FREN majors with a minimum 70 percent major average.

Prerequisites: FREN 2F03, 3P03 and one-half credit (taught in French) in literature numbered 3(alpha)00 or above.

FREN 4P04

Translation II: Applications

Lexical, morphological, syntactic and semantic interrelationships between source text and target text; application of translation methodologies to a variety of texts.

Lectures, 3 hours per week.

Prerequisite: FREN 3P03 or permission of the instructor.

FREN 4P12

Medieval French Literature

Texts chosen from various genres, from the *chanson de geste* to the 15th-century narrative. Introduction to Old French.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P20

Sixteenth-Century Literature

Humanism within the French Renaissance, *Pléiade* poetry. Authors may include Rabelais, Du Bellay, Ronsard, Marguerite de Navarre, Montaigne.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P44

Nineteenth-Century French Literature after 1850

Realism, Naturalism, Symbolism. Texts chosen from various genres. Authors may include Flaubert, Zola, Baudelaire, Rimbaud, Verlaine, Mallarmé.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P55

Twentieth-Century French Literature from 1935 to 1970

Ideological and aesthetic perspectives. Texts chosen from various genres. Authors may include Malraux, Camus, Sartre, Giraudoux, Robbe-Grillet, Beckett, Char.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P56

French Literature after 1970

Contemporary aesthetic movements. Texts chosen from various genres. Authors may

include Le Clézio, Yourcenar, Tournier, Bonnefoy, Modiano, Duras.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P75

Canadian Literature in French after 1960

Texts from various genres representing major aesthetic movements.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P80

“Beur” Literature and Film

“Beur” phenomenon in France via novels and film. Historical, cultural, ideological and theoretical concerns. Authors may include Azouz Begag, Nina Bouraoui, Mehdi Charef, Soraya Nini and Leila Sebbar.

Lectures, 3 hours per week.

Prerequisite: FREN 2F03, two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4P92

Research Project

Independent research project under the supervision of a faculty member.

Restriction: permission of the Department.

FREN 4P96

Critical Theory and Methodology

Approaches to literary criticism: sociological, phenomenological, psychoanalytic approaches; structuralism, semiotics, narratology, deconstruction. Bibliographical research.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4V60-4V99

Special Research Topics in French Literature

Course content will vary, depending upon the interests of instructors and students.

Lectures, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half credit (taught in French) in literature.

FREN 4V79

2009-2010: Text and image in French-Speaking Literature

Contemporary literary texts including photographs. Theoretical and aesthetic aspects.

Authors may include Roland Barthes, Nicole Brossard, Sophie Calle, Annie Ernaux, Michel Tournier.

Lecture, 3 hours per week.

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 3(alpha)00 or above, with at least one-half-credit (taught in French) in literature.

General Studies

Students wishing to pursue a pattern of studies that does not coincide with either a single major or a combined major program may choose either a Bachelor of Arts (Pass) Degree in General Studies or Bachelor of Science (Honours or Pass) Degree in General Studies.

Bachelor of Arts (Pass) Degree

BA in General Studies is available as a 15-credit degree only. Course selection for this degree program is strictly limited and as the requirements differ from other BA degrees, students should be aware of the specific requirements for this degree. The requirement for graduation with a BA in General Studies is a minimum 60 percent overall average on completion of program requirements.

A Bachelor of Arts General Studies degree will carry no major, minor or area of concentration.

Students electing to pursue a General Studies program should develop a program plan in consultation with an Academic Adviser in the Office of the Registrar.

Program Notes

1. The majority of the credits earned must be offered by Departments/Centres within the Faculties of Humanities and Social Sciences.
2. It is recommended that students in the BA program in General Studies take one Humanities context credit; one Sciences context credit; one Social Sciences context credit; two elective credits in Year 1.
3. In this 15 credit degree program a maximum of seven credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Program Requirements

A student may select a maximum of five credits from each of two disciplines (including courses cross listed with each discipline), with

the exception of courses from the Faculties of Applied Health Sciences, Business and Education. A maximum of five credits may be taken from any combination of designated Applied Health Sciences, Business and Education courses (including courses cross listed with that faculty.)

Pass

- One APCO/COSC/MATH credit or one credit in a language other than English
- one Humanities context credit
- one Sciences context credit
- one Social Sciences context credit
- eleven elective credits (see program note 3)

Brock University/Niagara College Degree Completion Pilot Project

This degree completion program is designed for graduates of Niagara College's General Arts and Science program to complete a BA in General Studies at Brock. Due to the structure of the program Niagara College graduates will lack prerequisites for upper-year Brock courses. Course selection will be limited and students are advised to consult an Academic Adviser in the Office of the Registrar to develop a program plan. As this is a limited enrolment program applications will be reviewed by an Admissions Committee, chaired by the Chair of Sociology and composed of representatives from Brock and Niagara College. Students admitted to the program, who subsequently elect to change their major, may have the applicability of the transfer credits re-evaluated.

Program Requirements

Graduation from the Niagara College two-year General Arts and Science Diploma program with a Grade Point Average (GPA) of B (70 percent) or better (with a minimum grade of B in SOCL 100, 200 and 104) and a minimum grade of 70 percent in CANA 1F91.

To complete the BA program in General Studies, students will be required to complete at least seven Brock credits (in addition to CANA 1F91.)

Pass

A maximum of two credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; a maximum of two credits may be numbered 2(*alpha*)00 or above; at least three credits must be numbered 2(*alpha*)90 or above.

- One APCO/COSC or MATH credit or one credit in a language other than English
- one Sciences context credit
- two and one-half SOCI credits
- two and one-half elective credits (excluding SOCI courses)

Bachelor of Science

A BSc in General Studies is offered at both the Honours and Pass degree levels.

A BSc General Studies degree will carry no major, minor, or area of concentration.

Students electing to pursue a General Studies program must identify 2 subject areas, with the majority of credits earned offered by Departments/Centres within the Faculty of Mathematics and Science. In addition students should develop a program plan in consultation with an Academic Adviser in the Office of the Registrar. Such a plan requires approval by the Dean of Mathematics and Science.

It should be noted that a maximum of seven credits from any combination of courses from the Faculties of Applied Health Sciences, Business and Education can be included in an Honours BSc; a maximum of five credits may be taken within a Pass BSc. Education may only be used as the three-credit component and only in a Pass degree. An Honours degree with Education as a component is not possible.

Program Notes

1. The majority of the credits earned must be offered by Departments/Centres within the Faculty of Mathematics and Science.
2. Students with 70 percent or greater in 4U chemistry (or equivalent) must enroll in CHEM 1F92. CHEM 1P00 is designed to assist students with insufficient background in chemistry to succeed in CHEM 1F92. Students with less than 70 percent in 4U chemistry, or who have not taken advanced high school chemistry are allowed to take CHEM 1F92 instead of CHEM 1P00 by permission of the Department of Chemistry if they pass a written test of basic chemistry knowledge, which is administered before classes begin.
3. The Science elective credit must be chosen from those courses offered by a department in the Faculty of Mathematics and Science,

excluding ASTR 1P02, 1P02, SCIE 1P50 and 1P51.

4. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)9 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

- one APCO, COSC or MATH credit
- one Humanities context credit
- one Sciences context credit
- one Social Sciences context credit
- two elective credits

Program Requirements

It is recommended that students in the BSc program in General Studies take the following courses in Year 1:

- BIOL 1F90
- CHEM 1F92 (preferred) or CHEM 1P00 and one-half elective credit of (see program note 2)
- MATH 1P97 and 1P98
- one Humanities or Social Sciences context credit
- one Science elective (see program note 3)

In subsequent years a student may choose to declare a major, in a subject area of interest, or remain in General Studies and follow the program requirements outlined below.

Honours

- Seven credits must be chosen in one subject
- five credits must be chosen in another subject
- three credits numbered 2(*alpha*)90 or above, with a minimum of two credits from the chosen subjects
- three credits numbered 3(*alpha*)90 or above, with a minimum of two credits from the chosen subjects
- one APCO, COSC or MATH credit
- one Humanities context credit
- one Sciences context credit
- one Social Sciences context credit
- two elective credits

Pass

- Five credits must be chosen in one subject
- three credits must be chosen in another subject
- three credits numbered 2(*alpha*)90 or above, with a minimum of two credits from the chosen subjects

Geography

Chair

Hugh Gayler
Michael Ripmeester (as of July 1, 2009)

Professor Emeritus

John N. Jackson

Professors

David Butz, Hugh Gayler, John Menzies,
Michael Ripmeester, Anthony B. Shaw, Keith
J. Tinkler

Associate Professors

Alun Hughes, Marilyne Jollineau, Phillip
Mackintosh, Catherine Jean Nash, Dragos
Simandan

Assistant Professors

Jeffrey Boggs, Daryl Dagesse, Christopher
Fullerton, Ebru Ustundag

Adjunct Professor

Dong-Ho Shin

Director, Co-operative Programs

Cindy Dunne

General Information

Administrative Co-ordinator

Virginia Wagg

905-688-5550, extension 3484

Mackenzie Chown C322

<http://www.brocku.ca/geography/>

The Department of Geography offers programs leading to BA and BSc degrees at the honours and pass levels and participates in a number of combined major programs.

Geographers study the distribution of physical and human phenomena over the Earth's surface and the interrelationships of humans and the natural environment. Their work ranges from description and mapping, through scientific analysis and explanation, to forecasting and planning for the future.

The discipline of geography has a broad scope and combines elements of both the social and natural sciences. Two principal divisions of the subject exist-human geography and physical geography-linked by a common background, a mutual concern for humans and the environment and a body of related theory and methodology.

Geography majors at Brock may choose from the following degree programs: BA Human Geography, BSc Physical Geography, BA Geography and BSc Geography. The first two are relatively specialized, while the last two strike a balance between the physical and human sides of the discipline. Within each program students may be admitted to the honours degree program at any time. An honours degree program provides students with an opportunity for a more intensive examination of issues in the discipline. These programs are described in detail in subsequent sections.

The Department of Geography also participates in four-year Co-op programs leading to a BA or BSc Honours degree.

In addition, the Department offers four-year Honours programs leading to either a BA or BSc degree in Geography with a Concentration in Geomatics. This program combines Brock courses with those offered by Niagara College.

The Department and the Faculty of Education co-operate in offering a Concurrent BA (Honours) or BSc (Honours)/BEd degree at both the Junior/Intermediate and Intermediate/Senior levels.

Most courses emphasize structured labs and seminars in early years and progressively more independent work in later years, culminating in an optional honours thesis in year 4. Field work features prominently in some courses. Students should note that a nominal fee may be charged in courses having a field work or laboratory component.

Two field courses, GEOG 3P56 and 3P57, are held in September in the week following Labour Day, with follow-up seminars/labs during term. One of these courses is mandatory for students entering year 3; prospective students must register with the Department by April of the preceding academic year.

GEOG 4F99 is an optional internship program in year 4, enabling students to obtain work experience while still at the University. Prospective students must register with the Department by April of the preceding academic year.

Laboratories and equipment are available for work in biogeography, geomorphology, climatology, cartography, surveying, remote sensing, geographic information systems and human geography. The University Map Library, containing an extensive collection of maps, atlases and air photos, is housed within the Geography department.

Policing and Criminal Justice-Niagara College

The Policing and Criminal Justice program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines training in policing and criminal justice with an education in a chosen academic discipline, which may be Communications Studies, Human Geography, Political Science, Psychology or Sociology. For students majoring in Human Geography, this four-year program leads to a BA (Honours) in Human Geography and a diploma in Police Foundations from Niagara College. The program caters to the increasing demand in society for professionals who possess both solid applied skills and the substantive knowledge needed to apply them to the areas of policing and criminal justice. Normally, this involves attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Policing and Criminal Justice program are available from the Office of the Dean of Social Sciences.

Please consult the Policing and Criminal Justice entry for a listing of program requirements.

Co-op Program

The Geography Co-op programs combine academic and work terms over a four year period. Students spend the first two years in an academic setting where their exposure to courses in the core areas of Geography provides the necessary background for their first work placement. In addition to the current fees for courses in academic study terms, Geography Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue in the Co-op program is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Geography Co-op program, but may continue in the BA or BSc Geography non Co-op program. For further information, see the Co-op programs section of the Calendar and contact the Department of Geography.

The Geography Co-op program designation will be awarded to those students who have successfully completed a minimum of twelve months of Co-op work experience.

Program Notes

1. GEOG 2P07, 2P12, 2P13, 2Q96, 3F91, 3F93, 3P04, 3P05, 3P07, 3P50, 3P76, 3P79, 3P83, 3P95, 4F99, 4P03, 4P07 and 4P83 can be taken for either BA or BSc credit.

2. In the case of GEOG 3V60-3V69, 3V90-3V99, 4F90, 4P95 and 4P96 the content in a given year determines whether the course yields BA credit or BSc credit.

3. Students may hold credit for only one of GEOG 3P56 or 3P57.

4. For students with a specific interest in geomorphology and soils the following ERSC courses are recommended as elective credits: ERSC 2P15, 3P61 and 4P61.

5. This credit must be other than GEOG.

6. The Social Science credit must be from CHYS, COMM, ECON, FILM, LABR, POLI, PCUL, PSYC, SOCL, TREN or WISE.

7. One Science credit is required and must be from BCHM, BIOL, CHEM, COSC, ERSC, MATH and PHYS (excluding ASTR 1P01, 1P02, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, SCIE 1P50 and 1P51).

8. One Science credit is required, must be from BCHM, BIOL, CHEM, COSC, ERSC, MATH and PHYS and must be numbered 2(alpha)00 or above.

9. WRIT 1P93 recommended.

10. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Course Offerings

Courses offered by the Department fall into two main groups, group A in human geography and group B in physical geography. A third group (C) emphasizes geomatics approaches to geographical problems.

Group A:

- GEOG 1F90
- GEOG 2P01, 2P02, 2P03, 2P06, 2P10, 2P12, 2P13
- GEOG 3F90, 3F91, 3F92, 3F93, 3P41, 3P45, 3P46, 3P47, 3P50, 3P51, 3P53, 3P57, 3P60, 3P65, 3P66, 3P69, 3P74, 3P79, 3P80, 3P83, 3P84, 3P86, 3P87, 3P91, 3P93, 3V60-3V69, 3V90-3V99
- GEOG 4F90, 4F99, 4P11, 4P46, 4P51, 4P55, 4P60, 4P61, 4P62, 4P65, 4P66, 4P67, 4P70, 4P71, 4P72, 4P75, 4P77, 4P83, 4P84, 4P87, 4P92, 4P95, 4P96

Group B:

- GEOG 1F91
- GEOG 2P04, 2P05, 2P09, 2P11, 2P12, 2P13, 2P97
- GEOG 3F91, 3F93, 3F95, 3P10, 3P12, 3P13, 3P24, 3P25, 3P26, 3P33, 3P35, 3P36, 3P50, 3P56, 3P79, 3P83, 3P85, 3Q99, 3V60-3V69, 3V90-3V99
- GEOG 4F90, 4F99, 4P12, 4P13, 4P26, 4P28, 4P80, 4P83, 4P95, 4P96

Group C:

- GEOG 2P07
- GEOG 3P04, 3P05, 3P07, 3P95
- GEOG 4P03, 4P07

Bachelor of Arts in Human Geography

Honours

Year 1

- GEOG 1F90 and 1F91 (may be taken in Year 2)
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one elective credit (see program note 9)

Year 2

- GEOG 2P07, 2P10 and 2P12
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one Social Science credit (see program note 5)

6)

- one elective credit (to include GEOG 1F91 if not completed in Year 1)

Year 3

- GEOG 3P57
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group A
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from either group A or C
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group C
- two elective credits

Year 4

- One GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group A or C
- three GEOG credits numbered 3(alpha)90 or above from group A or C
- one elective credit

Human Geography Co-op (Honours only)

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved programs consult the Co-op office.

Year 1

- GEOG 1F90 and 1F91
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one elective credit (see program note 9)

Spring/Summer Sessions:

- One elective credit

Year 2

- GEOG 0N90, 2P07, 2P10 and 2P12
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one Social Science credit (see program note 6)

- one GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group A

Spring/Summer Sessions:

- GEOG 0N01

Year 3

Fall Term:

- GEOG 3P57
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)89 from group A or C
- one-half elective credit

Winter Term:

- GEOG 0N02

Spring/Summer Sessions:

- GEOG 0N03

Year 4

- One GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group A or C
- three GEOG credits numbered 3(alpha)90 or above from group A or C
- one elective credit

Spring/Summer Sessions:

- One and one-half elective credits

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Bachelor of Science in Physical Geography

Honours

Year 1

- GEOG 1F90 (may be taken in Year 2) and 1F91
- MATH 1P97
- one Humanities context credit
- one Science context credit (see program note 7)
- one-half elective credit (see program note 9)

Year 2

- GEOG 2P07, 2P11 and 2P12
- one and one-half credits from GEOG 2P04, 2P05, 2P09, 2P13
- one Science credit (see program note 7)
- one elective credit (to include GEOG 1F90 if not completed in Year 1)

Year 3

- GEOG 3P56
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group B
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group B or C
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group C
- one Science credit (see program note 8)
- one elective credit

Year 4

- One GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group B or C
- three GEOG credits numbered 3(alpha)90 and above from group B or C
- one elective credit

Physical Geography Co-op (Honours only)

Year 1

- GEOG 1F90 and 1F91
- MATH 1P97
- one Humanities context credit

- one Science context credit (see program note 7)
- one-half elective credit (see program note 9)

Spring/Summer Sessions:

- One elective credit

Year 2

- GEOG 0N90, 2P07, 2P11 and 2P12
- one and one-half credits from GEOG 2P04, 2P05, 2P09, 2P13
- one Science credit (see program note 7)
- one GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group B

Spring/Summer Sessions:

- GEOG 0N01

Year 3

Fall Term:

- GEOG 3P56
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)89 from group B or C
- one-half Science credit numbered 2(alpha)00 or above (see program note 8)

Winter Term:

- GEOG 0N02

Spring/Summer Sessions:

- GEOG 0N03

Year 4

- One GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group B or C
- three GEOG credits numbered 3(alpha)90 and above from group B or C
- one half Science credit numbered 2(alpha)00 or above (see program note 8)
- one-half elective credit

Spring/Summer Sessions:

- one and one-half elective credits

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Bachelor of Arts in Geography

Honours

Year 1

- GEOG 1F90 and 1F91
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one elective credit (see program note 9)

Year 2

- GEOG 2P07, 2P10 and 2P12
- one credit from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one credit from GEOG 2P04, 2P05, 2P09, 2P13
- one Social Science credit (see program note 6)
- one-half elective credit

Year 3

- GEOG 3P57
- one GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group A
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group A or C
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group B
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group B or C
- two elective credits

Year 4

- One GEOG credit numbered 2(alpha)90 to 3(alpha)89 from groups A, B, C
- three GEOG credits numbered 3(alpha)90 or above from groups A, B, C
- one elective credit

Geography Co-op (Honours only)

Year 1

- GEOG 1F90 and 1F91
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one elective credit (see program note 9)

Spring/Summer Sessions:

- One elective credit

Year 2

- GEOG 0N90, 2P07, 2P10 and 2P12
- one credit from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one credit from GEOG 2P04, 2P05, 2P09, 2P13
- one Social Science credit (see program note 6)
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group A

Spring/Summer Sessions:

- GEOG 0N01

Year 3

Fall Term:

- GEOG 3P57
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group A
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group A or C
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group B or C
- one-half elective credit

Winter Term:

- GEOG 0N02

Spring/Summer Sessions:

- GEOG 0N03

Year 4

- One GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from groups A, B, C
- three GEOG credits numbered 3(*alpha*)90 or above from groups A, B, C
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from group B
- one-half elective credit

Spring/Summer Sessions:

- One and one-half elective credits

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Bachelor of Science in Geography

Honours

Year 1

- GEOG 1F90 and 1F91
- MATH 1P97
- one Humanities context credit
- one Science context credit (see program note 7)
- one-half elective credit (see program note 9)

Year 2

- GEOG 2P07, 2P11 and 2P12
- one credit from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one credit from GEOG 2P04, 2P05, 2P09, 2P13
- one Science credit (see program note 7)
- one-half elective credit

Year 3

- GEOG 3P56
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group A
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group A or C
- one GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group B
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group B or C
- one Science credit (see program note 8)
- one elective credit

Year 4

- One GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from groups A, B, C
- three GEOG credits numbered 3(*alpha*)90 or above from groups A, B, C
- one elective credit

Geography Co-op (Honours only)

Year 1

- GEOG 1F90 and 1F91
- MATH 1P97
- one Humanities context credit
- one Science context credit (see program note 7)
- one-half elective credit (see program note 9)

Spring/Summer Sessions:

- One elective credit

Year 2

- GEOG 0N90, 2P07, 2P11 and 2P12
- one credit from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one credit from GEOG 2P04, 2P05, 2P09, 2P13
- one Science credit (see program note 7)
- one-half GEOG numbered 2(*alpha*)90 to 3(*alpha*)89 from group B

Spring/Summer Sessions:

- GEOG 0N01

Year 3

Fall Term:

- GEOG 3P56
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from group A or C
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from group B
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from group B or C
- one-half Science credit numbered 2(*alpha*)00 or above (see program note 8)

Winter Term:

- GEOG 0N02

Spring/Summer Sessions:

- GEOG 0N03

Year 4

- One-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from group A
- three GEOG credits numbered 3(*alpha*)90 or above from groups A, B, C
- one GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)89 from groups A, B, C
- one-half Science credit numbered 2(*alpha*)00 or above (see program note 8)

Spring/Summer Sessions:

- One and one-half elective credits

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Concurrent BA/BEd and BSc/BEd

The Department of Geography and the Faculty of Education co-operate in offering two Concurrent BA (Honours)/BEd programs and two BSc (Honours)/BEd programs. The Geography BA (Honours)/BEd program combines the BA Honours program or BA Honours Integrated Studies program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7 - 12) and at the Junior/Intermediate level (grades 4 - 10). The Geography BSc (Honours)/BEd combines the BSc Honours program or BSc Integrated Studies program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7 - 12) and at the Junior/Intermediate level (grades 4 - 10). Refer to the Education - Concurrent BA (Honours), Education - Concurrent BA Integrated Studies (Honours)/BEd, Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior) or Education-Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) program listings for further information.

Combined Major Program

The Department of Geography participates in combined major programs with the following departments: Biological Sciences (BSc), Child and Youth Studies (BA), Computer Science (BA and BSc), Earth Sciences (BSc), Economics (BA). The requirements are listed in the calendar sections of the co-major discipline. Combined major programs with other disciplines are also possible; students interested in pursuing one of these should consult the Chair of Geography and of the other department/centre involved. As in the single major programs, students pursuing a combined major may be admitted to the Pass program at any time. The Pass program provides students with an opportunity for a more intensive examination of issues in the field.

All combined major students are required to complete the following courses:

- GEOG 1F90 or 1F91

- GEOG 2P10 or 2P11
- GEOG 2P12
- GEOG 3P56 or 3P57

In addition, BSc Combined majors are required to complete MATH 1P97

Minor in Geography

Students in other disciplines can obtain a Minor in Geography within their degree program by completing the following courses with a minimum 60 percent overall average:

- GEOG 1F90 or 1F91
- one and one-half GEOG credits numbered 1(alpha)90 to 2(alpha)89
- one and one-half GEOG credits numbered 2(alpha)90 or above.

Brock/Colleges Articulation Agreement

Concentration in Geomatics-Niagara College

The Concentration in Geomatics combines an education in the fields of cartography, geographic information systems (GIS), remote sensing and surveying with an education in Geography.

This is a four-year Honours program and involves courses offered through Brock University and Niagara College. Students completing the program receive a Brock Honours degree in Geography with a Concentration in Geomatics and a post-graduate certificate in Geographic Information Systems - Geospatial Management from Niagara College. The degree may be a BA or BSc, depending on whether human or physical geography is emphasized.

The program caters to the demand in society for professionals who possess both a solid background in Geomatics and the substantive knowledge necessary to apply those technologies successfully in the real world. Normally, this involves attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package.

Students should note the following about this program:

1. Students normally enter the program at the start of Year 2 and should apply for admission at the end of Year 1. Enrolment is limited, depending on the availability of lab space at Niagara College. Admission to the Concentration will include concurrent admission to the Niagara College post-graduate certificate program in Geographic Information Systems - Geospatial Management.

2. The Niagara College courses are taken in Year 3 and extend over three terms, Fall, Winter, and Spring. They are taught at the college's Glendale Campus.

3. Upon completion of the requirements for the post-graduate certificate at Niagara College, with a minimum 70 percent overall average, students will have 5.0 unspecified transfer credits applied to their Brock degree.

BA (Honours) Geography with Concentration in Geomatics

Year 1

- GEOG 1F90 and 1F91
- one Social Science context credit (see program note 5)
- one Humanities context credit
- one elective credit (see program note 9)

Year 2

- one credit from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- GEOG 2P07, 2P10, 2P12, 3P05 and 3P07
- one GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group A
- one-half elective credit

Year 3

- taken at Niagara College

Year 4

- GEOG 3P04, 3P57 and 4P07
- one-half GEOG credit numbered 2(alpha)90 or above from group A
- two and one-half GEOG credits numbered 3(alpha)90 or above from group A
- one-half elective credit (see program note 2)

BSc (Honours) Geography with Concentration in Geomatics

Year 1

- GEOG 1F90 and 1F91
- one Science context credit (see program note 7)
- one Humanities context credit
- one elective credit (see program note 9)

Year 2

- One credit from GEOG 2P04, 2P05, 2P09, 2P13
- GEOG 2P07, 2P11, 2P12, 3P05 and 3P07
- one GEOG credit numbered 2(alpha)90 to 3(alpha)89 from group B
- MATH 1P97

Year 3

- taken at Niagara College

Year 4

- GEOG 3P04, 3P56 and 4P07
- one-half GEOG credit numbered 2(alpha)90 or above from group B
- two and one-half GEOG credits numbered 3(alpha)90 or above from group B
- one-half elective credit (see program note 2)

Policing and Criminal Justice-Niagara College

Consult the Policing and Criminal Justice entry for a listing of the program requirements.

Master of Arts (MA) Program

The MA Program in Geography is designed to train students broadly in geographical approaches to understanding social and human/environment relations, with emphasis on how contemporary processes affect spatial relations across a range of scales from the local to the global. For details about the program, see the Graduate Calendar or contact the Geography Graduate Program Director.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

GEOG 1F90

Introduction to Human Geography

Practical and problem-oriented examination of spatial patterns of human organization and their links with social, cultural, economic, political and ecological processes.

Lectures, seminar, 3 hours per week.

GEOG 1F91

Principles of Physical Geography

The interactions of atmosphere, soils, vegetation and landforms occurring at the surface of the Earth. The development of natural environments and impacts upon people and their activities.

Lectures, lab, 4 hours per week.

GEOG 2P01

Introduction to Social Geography

Understanding the connections between space, society and knowledge; minds and bodies, communities, cities and streets, nations, economies and institutions, and ruralities.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90 or permission of the instructor.

* GEOG 2P02

Economic Geography

(also offered as LABR 2P02)

Growth of the world economy since 1500 AD and how this shapes the location of manufacturing, agriculture and services today. Contemporary impact of global economic forces and their roots in the growth of worldwide trading networks, colonialism, the Industrial Revolution, the Fordist crisis and transition to post-Fordism.

Lectures, tutorial, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and LABR majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, LABR 1F90 or permission of the instructor.

GEOG 2P03

Urban Geography

Basic concepts and problems underlying the growth of cities, the urban system, land-use patterns in the city and urban policy making.

Lectures, seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90 or permission of the instructor.

* GEOG 2P04

Introduction to Meteorology

(also offered as ERSC 2P04)

Principles, structure, composition and processes of the atmosphere; its energy budget, moisture balance and motion. Weather forecasting in middle and low latitudes, forecasting techniques and special problems in applied

meteorology.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior), and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 1F91, ERSC 1F01 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 2P04.

GEOG 2P05

Earth Surface Processes

(also offered as ERSC 2P05)

Earth surface processes and geomorphology within global environments. A dynamic and physically based account of processes and the Earth's surface, linking the fields of sedimentology, physical geography and fluid mechanics.

Lectures, lab, field work, 5 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior), and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 1F91, ERSC 1F01 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 2P05.

* GEOG 2P06

Cultural and Historical Geography

(also offered as PCUL 2P06)

Interactions among culture, society and landscape. The material and symbolic manifestations of culture in processes of landscape change.

Lectures, seminar, 3 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and PCUL majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F90, COMM 1F90, PCUL 1F92 or permission of the instructor.

* GEOG 2P07

Foundations of Geomatics

(also offered as ERSC 2P07 and IASC 2P07)

Introduction to spatial, metric, graphic and other concepts common to cartography, photogrammetry, remote sensing and geographic information systems (GIS). Properties of maps, air photos and satellite imagery. Principles of map compilation and design. Practical experience in computer mapmaking, image interpretation and GIS analysis.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or

combined), GEOG (Honours)/BEd (Intermediate/Senior) and IASC (single or combined), ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, 1F91, ERSC 1F01 or permission of the instructor.

GEOG 2P09

Principles of Biogeography

(also offered as ERSC 2P09)

Autoecological aspects of soils and plants including the human impact at all scales. Patterns of soils and plants and their explanation. Spatial patterns of soils and vegetation communities and their explanation.

Lectures, lab, 5 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior), BIOL, and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F91, CHEM 1F92, ERSC 1F01 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 2P09.

GEOG 2P10

Qualitative Research Design and Methodology

Aspects of qualitative research: project formulation, methodologies, writing-up; relation of theory and methodology.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90 or permission of the instructor.

* GEOG 2P11

Research Methods in the Geosciences

(also offered as ERSC 2P11)

Appraisal of scientific method. Problems of research design and the acquisition of information from the field by mapping, instrumental measurement, sampling and the use of published and unpublished data sources. Quantitative analysis of data, interpretation and the communication of results.

Lectures, lab, seminar, 5 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F91, ERSC 1F01 or permission of the instructor.

GEOG 2P12

Quantitative Research Design and Methodology

Introduction to basic concepts and techniques in descriptive and inferential statistics. Measures of central tendency and dispersion; populations and samples; correlation coefficients; bivariate regression; probability theory; Law of Large Numbers; Central Limit Theorem; Normal-, Z- and t-distributions; hypothesis testing. Naturalist and anti-naturalist epistemology. Realist and anti-realist ontology. The relationship between research questions and research designs.

Lectures, lab, 5 hours per week

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, 1F91 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in MATH 1P98.

GEOG 2P13

Resource and Environmental Geographies

Analysis of the relation between resources, global environmental dynamics, and the management of uncertainty. Emphasis on the changing pattern of energy flows.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F90, 1F91, ERSC 1F01, 1F90, INTC (INTL) 1F90, TREN 1F90 or permission of the instructor.

GEOG 2P15

Introduction to Oceanography (also offered as ERSC 2P15)

Overview of the oceans, their origin, composition, circulation, geology and biota, from the coastal zone to the abyss. Importance of oceanography to humans, history of oceanography, overview of marine hazards and resources, ocean-atmosphere interactions and the global climate.

Lectures, lab, 5 hours per week.

Prerequisite: one of GEOG 1F91, ERSC 1F01, 1F90, BIOL 1F90.

GEOG 2P16

Sedimentology (also offered as ERSC 2P16)

Basic clastic sedimentology (grain size, shape, porosity/permeability, fabric) including fundamentals of unidirectional and oscillatory water flows, sediment transport under such flows and resulting sedimentary structures. Clastic rock classification.

Lectures, lab, 5 hours per week.

Prerequisite: GEOG 1F91 or ERSC 1F01.

GEOG 2P17

Earth Science Methods

(also offered as ERSC 2P17)

Introduction to the study and description, in the field and the lab, of surficial deposits, sedimentary, igneous and metamorphic rocks; structural analysis of geological maps and imagery.

Lectures, lab, field trips, 6 hours per week.

Prerequisite: GEOG 1F91 or ERSC 1F01.

Note: field trips taken during lab periods and weekends to areas of geological interest. Weekend field trips taken early in the semester.

GEOG 2P50

Geography of Canada

Analysis of factors underlying the development of Canada's distinctive regions emphasizing major metropolitan areas, resource regions and areas of decline.

Lectures, seminar, 3 hours per week.

Note: major credit will not be granted to GEOG majors.

* GEOG 2P97

Introduction to Soil Science

(also offered as OEVI 2P97)

Physical, chemical, biological, and hydrological processes within the soil system, their interrelationships, and relationships between these processes and the potential use of the soil. Emphasis on soils in Southern Ontario and individual student analysis of those soils.

Lectures, lab, 5 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BED (Intermediate/Senior) and OEVI majors until date specified in Registration guide.

Prerequisite: GEOG 1F91 or permission of the instructor.

GEOG 3F90

London Field Course

Growth and development of London as a global city, capital of Britain and major metropolitan area through an examination of its major functions, institutions, peoples and internal spatial structures; major planning issues involved in achieving an enriched urban environment.

Restriction: permission of the Department.

Prerequisites: two GEOG credits.

Note: students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3F92.

GEOG 3F91

Environmental and Development Issues in Thailand

Examination of development approaches, environmental issues and cultural practices through visits to small-scale village projects, national parks and urban areas. Assessment of the traditional versus the Western-style economy within the context of sustainable development. Environmental constraints on development.

Restriction: permission of the Department.

Prerequisites: two GEOG credits.

Note: students are expected to pay their own expenses.

GEOG 3F92

London-Paris Field Course

Contrasts and similarities between London and Paris in terms of their roles as global cities, national capitals, metropolitan cities and local places; examination of major functions, institutions, people and internal spatial structures. Focus on planning issues in achieving an enriched urban environment.

Restriction: permission of the Department.

Prerequisites: two GEOG credits.

Note: students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3F90.

GEOG 3F93

Costa Rica Field Course

Natural tropical environments occurring along a cross-country transect. Historical and contemporary uses and development of these different environments. Current management practices within the context of environmental sustainability.

Restriction: permission of the Department.

Prerequisite: two GEOG credits.

Note: students are expected to pay their own expenses and ensure all required vaccinations have been obtained before departure.

GEOG 3P04

Map Design and Production

Advanced aspects of map design. Methods of statistical mapping. Evolution of cartographic technology. Monochrome and colour map production using Adobe Illustrator. Issues and trends in cartography.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P07 or permission of the instructor.

* GEOG 3P05

Geographic Information Systems

(also offered as ERSC 3P05 and IASC 3P05)
Principles and use of computer-based systems for capturing, managing, manipulating, analysing and displaying data relating to the Earth's surface, with emphasis on raster applications. Practical work using Idrisi.

Lectures, lab, 5 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BED (Intermediate/Senior) and IASC (single or combined), ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P07 or permission of the instructor.

* GEOG 3P07

Remote Sensing

(also offered as ERSC 3P07)

Theory and practice of remote sensing. Photographic, thermal, multispectral, radar and laser imaging of the Earth's surface from airborne and spaceborne platforms. Image interpretation and image-analysis techniques.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BED (Intermediate/Senior) and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P07 or permission of the instructor.

* GEOG 3P12

Climate and Winegrape Production

(also offered as OEVI 3P12)

Climatological aspects of winegrape production emphasizing selected wine regions of the world. Effects of climate, weather-related diseases, topography, soil and viticulture practices on winegrape production.

Lectures, lab, field work, 4 hours per week

Restriction: open to GEOG (single or combined), GEOG (Honours)/BED (Intermediate/Senior) and OEVI majors until date specified in Registration guide.

Prerequisite: GEOG 2P04 or permission of the instructor.

Note: students enrolled in the OEVI program and OEVI certificate students are permitted to register without the prerequisite.

* GEOG 3P13

Applied Climatology

(also offered as ERSC 3P13)

Studies in selected topics from the field of energy and moisture exchanges, air pollution, climatic change, climatic impact assessment and bioclimatology. Human impact on the climate along with applied micro-climatological investigations and climatic data analysis.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or

combined), GEOG (Honours)/BED (Intermediate/Senior) and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P04 or permission of the instructor.

GEOG 3P24

Glacial Geomorphology/Geology

(also offered as ERSC 3P24)

Introduction to glaciology; glacial processes, glacial deposits; their genesis and sedimentology. Relationship of glacial processes to landforms and surface topography. Glacial systems and facies associations. Applied aspects of glacial geology such as drift exploration.

Lectures, lab, field work, 5 hours per week.

Prerequisite: GEOG 2P05 or permission of the instructor.

GEOG 3P25

Quaternary Geology

(also offered as ERSC 3P25)

Glaciations in the geological record, causes of glaciations, biotic responses to climatic changes, eustatic and isostatic sea level changes in response to glaciation. Quaternary stratigraphy and correlation of glacial and non-glacial events, application of Quaternary geology to economic and environmental problems, methods of paleoclimatic reconstruction.

Lectures, lab, 5 hours per week.

Prerequisite: GEOG 3P24, ERSC 2P16 or permission of the instructor.

GEOG 3P26

Glacial Soils and Sediments

(also offered as ERSC 3P26)

Applied aspects of glacial deposits. Geotechnical and pedomorphic properties and structural attributes of glacial soils and sediments. Micromorphology, glacial soil discontinuity analyses. Introductory aspects of soil mechanics. Drift exploration. Landfill problems and issues related to glacial soils and sediments.

Lectures, lab, 5 hours per week.

Prerequisite: GEOG 3P24, 3P25 or permission of the instructor.

GEOG 3P33

Biodiversity

(also offered as ERSC 3P33)

Dispersal and migration; adaptation; speciation; extinction; ecological interaction; species invasion; plant and animal introductions; habitat fragmentation and application of biogeographical theory to conservation biology; human impacts on fire regimes.

Lectures, lab, field work, 6 hours per week.

Prerequisite: one of GEOG 2P09, BIOL 2P05, 2Q04 or permission of the instructor.

GEOG 3P35

Biomonitoring and Environmental Stress Assessment

(also offered as ERSC 3P35)

Use of biodiversity indicators, field methods and passive and active sensors to assess environmental quality. Collection and analysis of quantitative and qualitative data to investigate urban air and water pollution and forest health.

Restriction: students must have a minimum of 10.0 overall credits and permission of the Department.

Prerequisite: one of GEOG 2P09, ERSC 1F01, BIOL 1F90 or permission of the instructor.

Note: one-week field study in the last week of the summer session with labs for 3 hours per week during the Fall term. Students are expected to pay their own expenses.

GEOG 3P36

Fluvial Geomorphology

(also offered as ERSC 3P36)

River basins, channel morphology, flood frequency analysis, elementary flow mechanics and sediment transport; analysis of river records; long term changes in river systems. Introduction to HEC-RAS flow modelling.

Lectures, lab, 6 hours per week.

Prerequisite: GEOG 2P05 or permission of the instructor.

GEOG 3P41

The Modern City in Historical Perspective

The modern city and its public spaces, including city and park planning and urban reform. Historical investigation of class, race and gender as they intersect with the bourgeois production of the public city. Planning and design, politics, economy and culture from the late eighteenth to the mid-twentieth centuries.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisites: GEOG 2P01 and 2P06 or permission of the instructor.

GEOG 3P45

Urban Growth Processes and Planning

Economic, social and political forces underlying population growth, land-use change and spatial expansion in cities in advanced industrial societies. Technological innovations and urban morphology. Urban planning issues relating to suburbanization, small-town development, urban countryside, new towns, urban sprawl versus containment and intensification, and the loss of valuable resource areas.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P03, 2P06 or permission of the instructor.

GEOG 3P50

Resource Management: Discourses, Policies and Ethics

Ethical and political implications of competing discourses of both human and natural resource management. Emphasis on the production and uses of power from the level of individual leadership and network-building to that of the global governance of resources.

Lectures/seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P13, POLI 2F20, 2F30, RECL 2P10, SOCI 2P73, SPMA 2P05, TREN 2P11 (RECL or TOUR 2P18) or permission of the instructor.

* GEOG 3P51

Popular Music, Identity and Place

(also offered as PCUL 3P51)

Examines links among places, music and cultural identities focussing on globalization, migration and mobility, place identity, music tourism and the role of companies and technology in music's diffusion, innovation and commercialization.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and PCUL majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P01, 2P02, 2P06, COMM 1F90 or permission of the instructor.

GEOG 3P53

Community Development and Social Planning

Geographical approach to conceiving community and planning for community empowerment. Theories and empirical studies from Canada and around the world.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P10 or permission of the instructor.

GEOG 3P56

Physical Geography Field Course

Application of geographical principles and field techniques to problems in physical geography. Restriction: permission of the Department.

Prerequisite: completion of year 2 GEOG requirements in the BSc GEOG (single or combined) programs.

Note: field work in September in the week following Labour Day. Students must register

with the Department by April of the preceding academic year. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3P57.

GEOG 3P57

Human Geography Field Course

Application of geographical principles and field techniques to problems in human geography.

Restriction: permission of the Department.

Prerequisite: completion of year 2 GEOG requirements in the BA GEOG (single or combined) programs.

Note: field work in September in the week following Labour Day. Students must register with the Department by April of the preceding academic year. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3P56.

GEOG 3P60

Geography of Transportation

Geographical aspects of transportation emphasizing the urban transportation problem, including its causes, consequences and potential solutions. Sustainable transportation and its implications for land use planning, transportation and urban design.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P03 or permission of the instructor.

* GEOG 3P65

Geography of Rural Development and Tourism

(also offered as TREN 3P65)

Overview of tourism as it intersects with rural development theory, processes and planning. Examination of various social, environmental, cultural and economic problems, consequences and opportunities of tourism in a rural development context. Incorporates examples of rural festivals, wineries and agri-tourism as means to understand appropriate rural tourism development.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior), TREN and TOUR majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, TREN 1F90 or permission of the instructor.

GEOG 3P66

Introduction to Urban and Regional Planning

Evolution of planning theory and history. Investigation of key concepts in planning since the late 19th century. Current trends and challenges in urban and regional planning.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P03 or permission of the instructor.

* GEOG 3P69

Geography of Cultural Industries

(also offered as COMM 3P69 and PCUL 3P69)

Theories and models of cultural production including, Cave's organizational model of cultural industries, Scott's model of cultural-product agglomerations, Veblen's theory of the leisure class, and Bourdieu's work on the creative field and habitus. Geography of artistic attraction and regional impacts of cultural policies.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior), COMM and PCUL majors until date specified in Registration guide.

Prerequisites: GEOG 2P01 or 2P06; GEOG 2P02, PCUL 2P20 or permission of the instructor.

* GEOG 3P74

Geography and Gender

(also offered as WISE 3P74)

Work of feminist geographers. Relationships between gender and space across scales, including scale of the body, domestic space, public spaces, the city, nation and globally.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P03, 2P06, WISE 2P90, 2P91 or permission of the instructor.

* GEOG 3P79

Nature, Development and the Politics of Knowledge

(also offered as INTC 3P79)

Recent theories regarding the social construction of nature and their implications for refiguring the colonial and postcolonial history of development and for envisioning a more just world order. Analysis of the production of old and new knowledge of nature and of their translation into environmental and development policies.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P13, TREN 2P28, 3P19, 3P21, POLI 2F20, 2F30, ENGL 2P52, SOCI 2P73, 2P85, WISE 2P96, HIST 2P99 or permission of the instructor.

* GEOG 3P80

Geography and International Development
(also offered as INTC 3P80)

Analysis of international development theory, policy and practice. Development's relation to globalization, imperialism and neo-colonialism. Development solutions to environmental problems. Selected case studies from the developing world.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, INTC (INTL) 1F90 or permission of the instructor.

* GEOG 3P83

Geography of Water Resources
(also offered as ERSC 3P83)

Physical and human factors affecting patterns of use and development of water resources. Emphasis on patterns of supply and demand, approaches to development and management of the resource, problems and alternative strategies.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or combined) GEOG (Honours)/BEd (Intermediate/Senior) and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F90, 1F91, ERSC 1F01 or permission of the instructor.

GEOG 3P84

Themes in Political Geography

Introduction to political geography with primary emphasis on contemporary themes, including geopolitics, economic globalization, global sustainability theory, evolution and emergent issues of the nation-state, new regionalism and place-based politics, and the local-global role of the new social movements.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P02, 2P06 or permission of the instructor.

GEOG 3P85

Ecology of a Changing Planet

(also offered as BIOL 3P85 and ERSC 3P85)

Impact of environmental change and human activity on ecosystems. Topics include climate change and global warming, habitat fragmentation, extinction, invasive species, conservation biology and the management of ecological integrity.

Lectures, lab, 5 hours per week.

Prerequisite: one of GEOG 2P09, BIOL 2P05, 2Q04.

GEOG 3P86

Themes in Cultural Geography

Geographies of culture and cultural politics emphasizing heritage issues focussing on ways in which relationships of power become manifest in material and symbolic landscapes.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P06 or permission of the instructor.

GEOG 3P87

Themes in Historical Geography

Literature, philosophies and methodologies of historical geography, including sections exploring the traditions of the field as well as current debates. Uses and limitations of primary source materials such as newspapers, oral traditions and government documents.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P06 or permission of the instructor.

GEOG 3P91

Chicago Field Course

Cultural and historical geographies of Chicago. Emphasis on the urban spectacle of the modern city and the contrasting geographies of race and class inequalities through the examination of public space, architecture, housing and suburbanization, and cultural production.

Restriction: permission of the Department

Prerequisite: two GEOG credits.

Note: students are expected to pay their own expenses.

* GEOG 3P93

Niagara's Changing Economic Geography

(also offered as LABR 3P93)

Changes in Niagara's industries and occupations; international trade and specialization; circular and cumulative causation; agglomeration and the contemporary world economy; regional growth machines; economic restructuring and income

inequality; deindustrialization; agricultural decline; tourism; structural unemployment; brain drain and transition to cognitive-cultural economy.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P02, 2P03 or permission of the instructor.

Note: GEOG 2P12, MATH 1P98, SOCI 2P13 or equivalent is recommended.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3P47.

* GEOG 3P95

Advanced Geographic Information Systems
(also offered as ERSC 3P95)

Further study of geographic information systems emphasizing vector and database applications and advanced analytical operations. Practical work using Idrisi and MapInfo Professional.

Lectures, lab, 5 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 3P05.

GEOG 3Q99

Field School-Quaternary Geology

(also offered as ERSC 3Q99)

Field and laboratory methods for analysis of Quaternary landscapes based on field sites including fluvial, hillslope, coastal, glacial, and biosphere examples.

Restriction: permission of the Department.

Prerequisite: GEOG 2P17.

GEOG 3V60-3V69

Special Topics in Geography

Topics selected from year to year on the basis of faculty expertise.

GEOG 3V90-3V99

Selected Field Studies and Directed Readings

Application of geographical methods and techniques to the analysis of field data and problems; two weeks of field work in a selected area.

Restriction: permission of the Department.

Note: experience in hiking and wilderness travel recommended.

GEOG 4F90

Honours Thesis

Individual research project carried out under the direction of a faculty adviser.

Restriction: open to GEOG (single or combined) majors with a minimum 80 percent

major average and approval to year 4 (honours) or permission of the Department.

Note: students contemplating a thesis must consult with the Department by March 15 of the preceding academic year. Regulations governing the thesis may be obtained from the Administrative Co-ordinator. A detailed proposal must be submitted in writing before May 1st prior to entering year 4.

GEOG 4F99

Honours Internship

Internship on a specific geographic problem or task under either the direction of a faculty member, or in a government or private agency working under the supervision of that agency. *Internship, 8 hours per week for 15 weeks; seminar, 3 hours per week for 9 weeks.*

Restriction: open to GEOG (single or combined) majors with approval to year 4 (honours) and permission of the Department.

GEOG 4P03

Advanced Cartography

Research, discussion and synthesis of a selected issue in modern cartography or the conception, compilation and design of a map illustrative of a specific theme.

Lab, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 3P04 or permission of the instructor.

* GEOG 4P07

Advanced Remote Sensing

(also offered as ERSC 4P07)

Theory and practice of *in situ*, airborne and spaceborne remote sensing. Emphasis on techniques used to study natural and human-made environments. Topics include data acquisition and preprocessing, image analysis, accuracy assessment and the production of information products. Image processing and analyses using commercially available image-analysis software.

Lectures, lab, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) and ERSC (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 3P07 or permission of the instructor.

GEOG 4P11

Critical Approaches to Applied Social Research Design

(also offered as POLI 4P11 and SOCI 4P11)

Application of social science skills in community and public-sector settings, including various qualitative and quantitative research strategies to empower communities and inform social policy development. Includes evaluation of a community agency or social program of choice.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BED (Intermediate/Senior), POLI (single or combined) and SOCI (single or combined) majors until date specified in Registration guide. Students must have a minimum of 10.0 overall credits.

Prerequisite: one of GEOG 2P10, 2P12, POLI 2P80, SOCI 2P11 or permission of the Department Administrator.

GEOG 4P12

Research Topics in Applied Climatology

Climatological investigations of selected problems in winegrape production, air pollution and climate change.

Seminar, lab and field work, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: GEOG 2P04 and 3P13 or permission of the instructor.

GEOG 4P13

Research Topics in Climatic Hazards

Special topics relating to climatic hazards, their impacts and societal adjustments.

Seminar, lab and field work, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: GEOG 2P04 and 3P13 or permission of the instructor.

GEOG 4P26

Advanced Fluvial Geomorphology

(also offered as ERSC 4P26)

Steep, rough river systems emphasizing boulder bed and rock bed channels.

Seminar, lab, field work, 3 hours per week.

Prerequisite: GEOG 3P36 or permission of the instructor.

GEOG 4P28

Advanced Glacial Sedimentology

(also offered as ERSC 4P28)

Sedimentology of present day glacial environments and of Quaternary sediments. Thermo-mechanical principles of glacier

physics as applied to past and present glacier ice conditions. Glacial lithofacies associations. Glacio-tectonics and diagenesis. Principles of glacial erosion, entrainment and deposition.

Lectures, lab, field work, 5 hours per week.

Prerequisite: GEOG 3P24, 3P26 or permission of the instructor.

GEOG 4P46

Cities and Globalization

Major debates on urban change under the impact of globalization. Topics include relations between economic restructuring and urban form, spatial relations within and among cities, social and cultural composition in globalizing cities, and the role of architecture and urban design.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 3P53 or permission of the instructor.

GEOG 4P51

Advanced Geography of Music

Selected debates, themes and research topics examining the relationships among music, cultural identity, political economy and place.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 3P51, 3P69, 3P84, 3P86, 3P87 or permission of the instructor.

GEOG 4P55

Queer Geographies

Contemporary conceptual and theoretical research on sexuality, gender, embodiment and space. Topics include geographies of sexualities, queer and trans geographies.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 2P01, 2P06, 3P74, 3P86 or permission of the instructor.

GEOG 4P60

Advanced Urban-Economic Geography

Conceptual and theoretical background to recent developments in global cities and service industries.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date

specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: one GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group A.

GEOG 4P61

Research Themes in Urban-Economic Geography

Methodological and ethical issues related to empirical research on global cities and service industries.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 4P60 or permission of the instructor.

GEOG 4P62

Advanced Transportation Geography

Selected debates, themes and research topics related to urban transportation. Application of geographical knowledge and skills to selected local transportation problems.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in the registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 3P60 or permission of the instructor.

GEOG 4P65

Contemporary Rural Geographies

Geographic perspectives on social, economic and environmental change in rural settings. Emphasis on issues and challenges facing rural communities and regions within industrialized nations.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 3P45, 3P53, 3P65, 3P66 or permission of the instructor.

GEOG 4P66

Advanced Urban and Regional Planning

Evolution of planning theories based primarily upon the work of influential planning figures and visionaries. Application of planning skills to selected local and regional growth and development problems.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date

specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 3P66 or permission of the instructor.

GEOG 4P67

Economic Growth and Urban Expansion in Developing Countries

Theories and realities of economic growth and urbanization with reference to East Asia. Topics include economic and industrial policies and strategies of three countries, China, Japan and Korea, and their impacts on urban life in the post-war era.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in the registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 2P02, 2P03 or permission of the instructor.

GEOG 4P70

Advanced Cultural and Social Geography

Selected debates and theoretical themes in the spatiality of culture and social well-being.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 2P01, 3P51, 3P53, 3P80, 3P86, 3P87 or permission of the instructor.

GEOG 4P71

Research Themes in Cultural and Social Geography

Methodological and ethical issues related to empirical research on the spatiality of culture and social well-being.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 2P01, 3P51, 3P53, 3P80, 3P86, 3P87 or permission of the instructor.

GEOG 4P72

Landscapes of Knowledge, Power and Resistance

Thematic consideration of different notions of knowledge, power and resistance, as forms of geographical phenomena, and contested conceptualizations of identity, subjectivity, social relations and spaces in Western landscapes.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 3P74, 3P79, 3P86, 3P87 or permission of the instructor.

GEOG 4P75

Resources and Social Movements

Conflicts over resource use and distribution and the mobilization of social movements with strong disruptive potential for political and economic life. The dynamics of these conflicts in relation to the role of the media and to processes of globalization.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 3P50, 3P74, 3P79, COMM 3P15, 3P93, HIST 3P52, 3P75, POLI 3P21, 3P33, PSYC 3P33, SOCI 3P66 or permission of the instructor.

GEOG 4P77

Advanced Topics in Labour Geographies

Relationship between the geographies of the brain and the geographies of labour. Emphasis on the relevance of psychoanalysis and neuroscience for understanding workplace performance and the uneven geography of human resources.

Seminar 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 2P01, 2P02, 3P50, 3P74 or permission of the instructor.

GEOG 4P83

Research Themes in Water Resources

Major debates and conflicts over water resources and their distribution. Topics include the environmental, social, economic and political aspects of water, water resources and their management.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: GEOG 3P83 or permission of the instructor.

GEOG 4P84

Cities and Public Space

Politics and policies governing streets and public spaces of the modern metropolis, and the various social responses to them.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one credit from GEOG 2P01, 2P06, 3P86 or permission of the instructor.

GEOG 4P87

Advanced Historical Geography

Spatial and temporal articulations of power relations. Selected debates examining the relationships among power, identity, and place in Canadian settings.

Seminar 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of GEOG 3P51, 3P69, 3P74, 3P86, 3P87 or permission of the instructor.

GEOG 4P92

Critical Engagements in Contemporary Human Geography

Major theoretical, conceptual and philosophical approaches influencing contemporary Western geographical thought and practice including representations of truth, knowledge, power and reality, nature of research questions and methodological considerations.

Seminar, 3 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

GEOG 4P95

Directed Readings I

Topic not covered in the Department's regular course offerings.

Seminar, 3 hours per week.

Restriction: permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial.

GEOG 4P96

Directed Readings II

Topic not covered in the Department's regular course offerings.

Seminar, 3 hours per week.

Restriction: permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial.

CO-OP COURSES

GEOG 0N01

Co-op Work Placement I

First co-op work placement (4months) with an approved employer.

Restriction: open to GEOG Co-op students

GEOG 0N02

Co-op Work Placement II

Second co-op work placement (4months) with an approved employer.

Restriction: open to GEOG Co-op students.

GEOG 0N03

Co-op Work Placement III

Third co-op work placement (4months) with an approved employer.

Restriction: open to GEOG Co-op students.

GEOG 0N04

Co-op Work Placement IV

Optional co-op work placement (4months) with an approved employer.

Restriction: open to GEOG Co-op students.

GEOG 0N05

Work Placement V

Optional co-op work placement (4months) with an approved employer.

Restriction: open to GEOG Co-op students.

GEOG 0N90

Co-op Training and Development

Framework for the development of learning objectives for individual work terms. Includes orientation to the co-op experience, goal setting, career planning, résumé preparation, and interview skills preparation.

Lectures, presentations, site visits, 2 hours per week.

Restriction: open to GEOG Co-op students.

Health Sciences

This program is offered through the Department of Community Health Sciences

Chair

Anthony F. Bogaert

Undergraduate Program Co-ordinator

Jackie Robb

General Information

Administrative Assistant

Joanne Boucher

905-688-5550, extension 4228

Academic South 329

<http://fahs.brocku.ca/chsc/>

The Honours BSc in Health Sciences prepares students for careers in health professions with a bio-science perspective. This pre-health professional degree allows students to meet the requirements of postgraduate programs in medicine and the allied health professions.

Program Notes

1. To proceed to year 2, students must achieve a minimum 70 percent major average with a minimum grade of 60 percent in CHSC 1F90 and MATH 1P98.
2. The following courses are available for science credits: CHSC 2F95, 2P07, 2P09, 3P07, 3P09, 3P19, 3P51, 3P90, 3P97, 4P07, 4P19, 4P95, 4P97.
3. The following courses are not available for science credit: ASTR 1P01, 1P02, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, PHYS 1P21, 1P22, 1P23, SCIE 1P50, 1P51.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program (only)

Year 1

- CHSC 1F90
- BIOL 1F90
- CHEM 1F92
- MATH 1P98
- one Humanities context credit (ENGL 1F95 recommended)
- one-half elective credit

Year 2

- CHSC 2F95, 2P07, 2P09 and 2P27
- BIOL 2P97
- one Science elective credit numbered 2(alpha)00-2(alpha)99 (see program notes 2 and 3)
- one elective credit

Year 3

- CHSC 2P21, 3P09, 3P07, 3P19 and 3P97
- one CHSC credit
- one and one-half Science elective credits (see program notes 2 and 3)

Year 4

- CHSC 4P50, 4P95 and 4P99
- one CHSC credit numbered 3(alpha)90 or above
- one and one-half credits from Science courses numbered 2(alpha)90 or above (see program notes 2 and 3)
- one elective credit

Description of Courses

See relevant calendar entry for course descriptions.

History

Chair

David H. Schimmelpenninck van der Oye
Murray R. Wickett (as of July 1, 2009)

Professors Emeriti

Craig R. Hanyan, Robert R. Taylor

Professors

Rosemary Hale, Jack Lightstone, John A. Sainsbury, David H. Schimmelpenninck van der Oye

Associate Professors

Michael D. Driedger, Kevin B. Kee, Maureen K. Lux, R. Andrew McDonald, Jane A. McLeod, Carmela K. Patrias, Daniel Samson, Barnett B. Singer, Mark G. Spencer, Murray R. Wickett

Assistant Professors

John Bonnett, Tami J. Friedman, Renée N. Lafferty, Behnaz Mirzai, Elizabeth Neswald, Olantunji Ojo, Marfa del Carmen Suescún Pozas, Elizabeth Vlossak, Ning Wang

Academic Adviser

Liz Kaethler

General Information

Administrative Co-ordinator

Heidi Klose

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Dinah Martin

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Historians explore changes in past societies, cultures and peoples. They examine cultural, artistic, political, economic, intellectual, social, military and national history. Their interests range from the history of individuals and local communities to studies of nations and international relations. They analyze the causes and consequences of significant change over time. They seek to illuminate the past.

The study of history involves surveying and gathering evidence and evaluating, interpreting and refining it by constructing clear and logical arguments on the basis of that evidence.

Within the requirements indicated under the Honours program and Pass program, the Department allows students considerable flexibility in the selection of HIST courses.

The Department normally offers four to six full-credit and 30-35 half-credit courses, both lecture and seminar courses, in any one year. Courses not offered in one year are normally offered the following year, so that a two-year rotation pattern is in operation.

To assist students in refining their analytical and critical skills, weekly seminars are a crucial part of every history course. In many courses individual students are given the responsibility of organizing and leading discussions on particular topics.

The Department of History recommends combining History with other disciplines, such as Child and Youth Studies, Classics, Communication Studies, Economics, English Language and Literature, Geography, Labour Studies, Philosophy, Political Science, Psychology, Sociology, Women's Studies and languages.

To qualify for admission to year 4 (honours), students must have a minimum 70 major average and approval of the Department. The application deadline is March 1 of the preceding academic year. Students wishing to apply for admission must meet with the Humanities Academic Adviser prior to the application deadline. See the Department for additional information.

History and Labour Studies-George Brown

College

This program involves courses offered through Brock and George Brown College of Applied Arts and Technology. This four-year program combines courses and training in applied labour studies settings at George Brown College with a degree in History and Labour Studies at Brock. The program caters to individuals who wish to have a career in a wide variety of areas including unionized environments, occupational health and safety, politics, or human resources. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and two certificates from George Brown College 1) a certificate in Contemporary Labour Perspectives from the George Brown School of Labour, and 2) a Post-Graduate Certificate in Human Resources Management. Gaining both a degree and these certificates would ordinarily involve attending college after

gaining a university degree, but the Brock and George Brown program combines the two in a single integrated package that can be completed in four years. Enrolment is limited.

Please consult the Labour Studies entry for a listing of program requirements.

History and Labour Studies-Mohawk College

This program involves courses offered through Brock University and Mohawk College of Applied Arts and Technology. This four-year program combines training in a variety of applied labour studies settings at Mohawk College with an honours degree in History and Labour Studies at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in various aspects of labour studies. The program leads to career opportunities in a wide variety of areas including unionized environments, occupational health and safety, politics, and human resources. Obtaining both an honours degree and a college certificate would ordinarily involve at least five years of study, but this Brock-Mohawk program combines the two in a single integrated package that can be completed in four years. Enrolment is limited.

Please consult the Labour Studies entry for a listing of program requirements.

Language Requirement for Humanities

Majors

Students in the Department of History are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirement, both half credits must be in the same language. One credit numbered 1(*alpha*)00 in French, German, Italian, Latin, Russian or Spanish is recommended.

Program Notes

1. History majors must take one Social Science credit outside of History to satisfy their Social Science context requirement.

2. Courses numbered 3(*alpha*)90 or above are restricted to students with a minimum of three credits numbered 2(*alpha*)00 to 2(*alpha*)99 or permission of the instructor.

3. Students in the Honours and Pass programs in History have the option of fulfilling one of their required History credits by taking two half- or one full- credit(s) from those listed under the heading "Departmental Offerings which are Approved History Credits".

4. WRIT 1P93 is recommended.

5. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Eleven HIST credits are required for an Honours degree.

Year 1

- One credit from HIST 1F90, 1F95, 1F96, HIST 1P98 and 1P99
- one Science context credit
- one Social Science context credit (see program note 1)
- one language credit other than English (see language requirement)
- one elective credit

Years 2 and 3

- Six HIST credits numbered 1(alpha)90 to 3(alpha)99 (see program note 2)
- four elective credits

Year 4

- One HIST credit
- one HIST credit numbered 3(alpha)90 or above
- two HIST credits numbered 4(alpha)00 to 4(alpha)99
- one elective credit

Concurrent BA (Honours)/BEd

The Department of History and the Faculty of Education co-operate in offering two Concurrent BA (Honours)/BEd programs. The History BA (Honours)/BEd program combines the BA Honours program or BA Integrated

Studies Honours program with the teacher education programs for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10). Refer to the Education - Concurrent BA (Honours)/BEd (Intermediate/Senior) or Education - Concurrent BA Integrated Studies (Honours)/BEd (Junior/Intermediate) program listings for further information.

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Students may take a combined major in History and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

Seven HIST credits
seven credits from the co-major discipline
one language credit other than English (see language requirement)
one Science context credit
one Social Science context credit (see program note 1)
three elective credits (see program note 5)

Pass

- Five HIST credits
- five credits from the co-major discipline
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit (see program note 1)
- two elective credits

History and Labour Studies

Honours

Year 1

- One credit from HIST 1F90, 1F95, 1F96, or HIST 1P98 and 1P99
- LABR 1F90

- one of ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90
- one language credit other than English (see language requirement)
- one Science context credit

Year 2

- Two HIST credits numbered 2(alpha)00 or above
- LABR 2P03 and 2P06
- one LABR credit
- one elective credit (see program note 4)

Year 3

- One HIST credit numbered 2(alpha)00 or above
- one HIST credit numbered 3(alpha)00 or above
- LABR 3P03 and 3P06
- one LABR credit
- one elective credit

Year 4

- One LABR credit numbered 2(alpha)90 or above
- one LABR credit numbered 3(alpha)90 or above
- two HIST credits numbered 3(alpha)90 or above
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours Program entitles a student to apply for a Pass Degree.

Minor in History

Students in other disciplines can obtain a Minor in History within their degree program by completing the following courses with a minimum 60 percent overall average:

- One HIST credit numbered 1(alpha)90 to 1(alpha)99
- two HIST credits numbered 2(alpha)00 or above
- one HIST credit numbered 3(alpha)00 or above

Approved History Courses Offered by
Other Departments/Centres

Students in the Pass and Honours programs in History have the option of fulfilling one of their required History credits by taking two half or one full credit course(s) from those listed below.

ABST 2F90
Studies in Aboriginal History I

ABST 2F91
Studies in Hodonohsonni History (in Mohawk)

ABST 2F92
Studies in Aboriginal History II

CANA 2P91
Culture and Power in Canada I: Cultural Communities

CANA 2P92
Culture and Power in Canada II: Cultural Institutions

CLAS 2P27
Ancient Civilizations of Egypt and the Near East
(also offered as INTC 2P27)

CLAS 3P07
History of Early Greece

CLAS 3P08
History of Classical Greece

CLAS 3P09
History of the Roman Republic

CLAS 3P10
History of the Early Roman Empire

CLAS 3P61
Gender and Society in Ancient Greece
(also offered as WISE 3P61)

CLAS 4P00
History of Hellenistic World, 323-30 BC

COMM 4P55
Advertising, Mass Media and Culture
(also offered as PCUL 4P55)

ECON 3P01
History of Economic Thought I

ECON 3P02
History of Economic Thought II

FILM 2F90
Film History and Research Methods

GEOG 2P03
Urban Geography

GEOG 2P06
Cultural and Historical Geography
(also offered as PCUL 2P06)

GEOG 2P50
Geography of Canada

GEOG 3P41
The Modern City in Historical Perspective

GEOG 3P87
Themes in Historical Geography

ITAL 2P92
Early to High Renaissance Art and Architecture
(also offered as MARS 2P92 and VISA 2P92)

LART 2P70
Religions of the World

LART 4P10
Modernity

MARS 1F90
Medieval and Renaissance Civilizations

MARS 2P91
Castle, Cathedral and Manor: Medieval Architecture and Society

PCUL 2P20
Popular Culture Theory and Research Methods
(also offered as COMM 2P20 and FILM 2P20)

PCUL 2P21
Canadian Popular Culture
(also offered as COMM 2P21 and FILM 2P21)

POLI 3P16
Politics in Québec
(also offered as CANA 3P16)

POLI 3P28
Canadian Foreign Policy

POLI 4P04
Politics and Tyranny
(also offered as GBL 4P04)

POLI 4P14
Federalism in Canada

POLI 4P15
Canadian Political Economy
(also offered as LABR 4P15)

POLI 4P22
Canada and the Developing World

POLI 4P47

Arab Politics

VISA 2P41
Baroque Art and Architecture

VISA 2P50
Canadian Identities: From Nouvelle France to the Mid-20th Century

VISA 2P51
Canadian Art since 1960: Contemporary Trends

VISA 2P90
Art in Revolution: The Rise of Modernism
(also offered as INTC 2P90)

VISA 3P05
The European Avant-Garde: 1905-1970

VISA 3P06
The American Avant-Garde: 1912-1970

Brock/Colleges Articulation Agreement

History and Labour Studies-George Brown College

Consult the Labour Studies entry for a listing of program requirements

History and Labour Studies-Mohawk College

Consult the Labour Studies entry for a listing of program requirements

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course
* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

HIST 1F90

Empires and Revolutions

Major empires and revolutions in global history. Introduction to the skills of source analysis.

Lectures, seminar, 3 hours per week.

HIST 1F95

World History since 1914

Major political, social, economic and cultural trends of the 20th century, focusing on developments in Europe and the way they have affected the rest of the world; the decline of Europe in global political and economic terms. Topics include the world wars, the Russian Revolution, fascism, the Holocaust, the Cold War, decolonization and conflict and its resolution in the international, political and social spheres.

Lectures, seminar, 3 hours per week.

HIST 1F96

The Americas

Comparative themes in the history of the Americas from pre-Columbian times to the present, emphasizing class, colonialism, economics, gender, labour, political systems, race, religion, revolution and war.

Lectures, seminar, 3 hours per week.

HIST 1P98

Western European Society and Politics to 1800

Social and political themes in the history of Western Europe before 1800.

Lectures, seminar, 3 hours per week.

HIST 1P99

Western European Ideas and Worldviews to 1800

Turning points in European intellectual and cultural life from the Middle Ages through the Age of Revolutions. Topics include major intellectual trends such as the Renaissance, the Reformation, the Scientific Revolution, the Enlightenment and Romanticism.

Lectures, seminar, 3 hours per week.

HIST 2F20

The Origins of Modern Britain, 1485-1832

Political, religious and economic forces that shaped British society and led to the country's emergence as an industrial and global power.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

* HIST 2F80

History of Science

(also offered as LART 2F80)

Scientific ideas and practices, their cultural roots and impact from Aristotle to the atom bomb.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), GBLS, LART majors and minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2F80.

HIST 2P01

Pre-Confederation Canada

Canadian history from the pre-contact period to 1867.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P02

Post-Confederation Canada

Canadian history from 1867 to the present.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

* HIST 2P03

Early Medieval Britain 400-1000: Celts, Saxons and Vikings

(also offered as IASC 2P03)

The end of Roman Britain to the Danish invasions and conquest of 1013-16. Migrations, invasions and settlements of Anglo-Saxons, Scots and Vikings; Romano-British and Brittonic society; quest for King Arthur; processes of state formation; heroic society; warfare; conversion to Christianity.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), IASC majors and minors until date specified in Registration guide.

* HIST 2P04

Medieval Britain 1000-1485: The Four Nations

(also offered as IASC 2P04)

Medieval Britain from the Danish invasions and conquest of 1013-16 until the Wars of the Roses. Emphasis on Celtic societies; Norman Conquest and impact; kings and kingship; church and monasticism; Anglo-Celtic relations, including the Scottish Wars of Independence and the English conquest of Wales.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), IASC majors and minors until date specified in Registration guide.

HIST 2P08

Colonial Latin America

Introduction to the history of Latin America from pre-hispanic times through 1810 focusing on the clashes, alliances and negotiations among indigenous peoples, conquistadores, slaves and missionaries.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P09

Modern Latin America

Introduction to the history of Latin America from the struggles for independence (1810) to the present. Topics include peasants, immigrants, workers and women in revolution, populism, dictatorship and democracies.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P10

United States Economic History

(also offered as ECON 2P10)

United States economic development from the colonial era to the late 20th century. Topics include the effect of British mercantilist policy on the colonial economy, westward expansion, financial development under central and free banking, comparison of Northern and Southern agriculture, slavery and emancipation, industrialization and industrial organization, transportation, impact of wars, the changing role of women and the interaction of government and market.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92 or permission of the instructor.

HIST 2P11

European Economic History

(also offered as ECON 2P11)

The pre-industrial economy of the Middle Ages, the commercial expansion of Europe in the 16th century, the 17th century depression and the Industrial and Agricultural revolutions of the late 18th and 19th centuries. Technical progress, capital accumulation, growth of demand and new forms of economic organization as sources of economic change. The spread of industrialization between countries, the role of Europe in the world economy and the changing economic role of the state.

Lectures, 3 hours per week.

Prerequisites: ECON 1P91 and 1P92 or permission of the instructor.

HIST 2P15

Glory and Despair: The United States 1607-1865

United States history and culture from earliest European settlement in North America to the Civil War. Topics include early contact between Europeans and Native Americans, the developing cultures of colonial America, slavery, the American Revolution, the United States Constitution, Jeffersonian America, Jacksonian Democracy, 19th-century social reform, Manifest Destiny and causes of the Civil War. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P16

Ambiguities of Greatness: The United States 1865 to the Present

United States history since the Civil War. Emphasis on Reconstruction, industrialization immigration, labour and reform, imperialism and the world wars, the Great Depression, Cold War, consumer, culture, race and gender, social protest and popular culture. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P19

Canadian Economic History

(also offered as ECON 2P19)

Growth and change in the Canadian economy from earliest European contact to the 20th century. Theories of growth, and of technical, institutional and demographic change. Topics include early fish, fur and timber trades, agriculture, the development of the West and the National Policy. *Lectures, 3 hours per week.*

Prerequisites: ECON 1P91 and 1P92 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in ECON 2P09.

*** HIST 2P25**

Revolutions in Communication

(also offered as IASC 2P25)

Major developments in the history of communication from the invention of writing until the modern information age. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior), IASC majors and minors until date specified in Registration guide.

HIST 2P41

Eighteenth-Century Europe, 1715-1789

Demographic, economic and structural changes as they affected the nobility, bourgeoisie and popular classes; changes in patterns of criminality, riot and popular mentality; war as a stimulus of social reform; the Enlightenment in its social and cultural context and the origins of the French Revolution. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P42

Revolutionary Europe, 1789-1815

The French Revolution and its European impact emphasizing its origins, its role in the development of European political culture and its impact on the experience of women. Topics include the failure of the constitutional monarchy and the counter-revolution. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P51

Europe, 1815-1914

Political, social and cultural changes in Europe when it was still dominant globally. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P52

Twentieth-Century Europe

Themes in 20th-century European history. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P53

Totalitarian Temptation: The 20th Century
Ideologies and politics of Nazism, Fascism, Communism and other 20th-century European developments. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P55

The Culture of War from the Renaissance to the 20th Century

Changing character of warfare and its consequences since 1500. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

*** HIST 2P56**

Gender in Modern European History

(also offered as WISE 2P56)

Men's and women's roles and experiences, and changing notions of femininity and masculinity, from the French Revolution to the present day. Intersection of gender with citizenship, nationalism, imperialism, class, work, education and war. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior), WISE (single or combined) majors and minors until date specified in Registration guide.

HIST 2P60

Medical History

(also offered as CHSC 2P60)

Rise of the medical professions through history. Development of the role of health care professionals in society and the formation of public policy. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior), CHSC, CHLH, HLSC, PHTH majors and HIST minors until date specified in Registration guide.

Prerequisite: one HIST credit or CHSC 1F90.

*** HIST 2P62**

Africa to 1800

(also offered as INTC 2P62)

Sources available for the study of African history, historical geography, social, political and economic institutions, and the slave trade. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors, HIST and INTL minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P62.

*** HIST 2P63**

Africa Since 1800

(also offered as INTC 2P63)

Abolition of the Atlantic slave trade, legitimate commerce, religious movements, European imperialism and African response, independence, and post-independence politics and economy. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BEEd (Intermediate/Senior) majors, HIST and INTL

minors until date specified in Registration guide.
Completion of this course will replace previous assigned grade and credit obtained in INTL 2P63.

HIST 2P65

Late Imperial East Asia

Socio-political change in and international relations between China, Japan, and Korea from the 17th century until the end of World War I.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Completion of this course will replace previously assigned grade and credit obtained in HIST 2F92.

HIST 2P66

Twentieth-Century East Asia

Socio-political change in and international relations between China, Japan, and Korea since World War I.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Completion of this course will replace previously assigned grade and credit obtained in HIST 2F92.

HIST 2P70

The Middle East, 600 - 1800

Major themes in Middle Eastern history from the advent of Islam to 1800 A.D. Art, culture, religions, migration, minorities, slavery and political developments.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P72

Modern Middle East

Major developments in the Middle East including nationalism, the Arab-Israeli conflict, colonialism, Middle Eastern states, modernity and Islam, the Iranian Revolution, political economy, the Gulf and Iraq-Iran wars, as well as Islam and politics from the Ottoman and Qajar dynasties to the present.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P91

Europe's Reformations, 1450-1650

Origins, course and consequences of the division of Western Christendom into Protestant and Catholic factions in the 16th century.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P96

Early Russia

Russian history from its beginnings in the Kievan period (ninth century) to the end of Catherine the Great's reign (1796).

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P98

Modern Russia

Politics, society and culture from 19th-century Imperial Russia to the Soviet Union.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2P99

Ideas and Culture before 1850

(also offered as LART 2P99)

Major developments in European intellectual and cultural life, such as the Renaissance, the Scientific Revolution, the Enlightenment, Romanticism and the emergence of modern ideologies.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), GBLS, LART majors and minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2P99.

HIST 2Q90

Canada: Nations Transformed

Themes in late 19th- and early 20th-century Canadian history.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2Q91

Modern Canada

Themes in 20th-century Canadian history emphasizing national identities after 1930.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2Q92

The United States, 1870-1930

Emergence of the United States as a global economic, cultural and military power.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

* HIST 2Q93

Women in North America to 1865

(also offered as WISE 2Q93)

Major themes in the history of women in Canada and the United States: native and European women in New France and British North America; women in the American Revolution; the lives of enslaved women; women and industrialization; women in the west; and social reform.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), WISE (single or combined) majors and minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in HIST (WISE) 2Q95.

* HIST 2Q94

Women in North America, 1865 to the Present

(also offered as WISE 2Q94)

Major themes in the history of women in Canada and the United States: emancipation; industrialization and immigration; suffrage and social movements; gender, race and ethnicity; women and the two world wars; and feminism in the 1960s and 1970s.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), WISE (single or combined) majors and minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in HIST (WISE) 2Q95.

* HIST 2Q96

Women in the Pre-Modern World

(also offered as WISE 2Q96)

Women's lives before 1800; how women's experience of historical phenomena differed from that of men; special problems in studying "women's history."

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or

combined), HIST (Honours)/BED (Intermediate/Senior), WISE (single or combined) majors and minors until date specified in Registration guide.

HIST 2Q97

Native-Newcomer Relations in Canada

Relationship between Aboriginal people and the newcomers to their lands from the contact era, to military alliance and trade, treaty-making and reserves, emphasizing the roots of current debates and disputes.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2Q98

Everyday Life in Early America

Themes in the day-to-day life of early Americans, from colonial times to the early 19th century.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 2V90-2V99

History in its Environment

Study of the history of a country or region in its own cultural and geographical context. Background preparation and research preceding an intensive study period on location.

Lectures, seminar, 3 hours per week.

Restriction: permission of the Department.

Note: students are responsible for travel, accommodation and other expenses.

HIST 3F20

Modern Britain

Politics, economy, society and culture in the British Isles from the early 19th century to the present.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2F20 recommended.

* HIST 3F90

Survey of Humanities Computing (also offered as IASC 3F90)

Research and concepts associated with the emerging discipline of humanities computing. Topics may include use of computer games in the humanities, hypertext design and delivery and current theory treating the use of multimedia as an instrument for expression.

Seminar, 3 hours per week.

Restriction: open to students who have completed 10.0 overall credits.

Note: enrolment limited to 20 students.

* HIST 3P00

Ideas and Culture since 1850

(also offered as LART 3P00)

Intellectual and cultural developments in Europe and America during the 19th and 20th centuries.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior), GBLS, LART majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3P00.

HIST 3P08

God's Country? Religion in North America before 1850

Influence of religious practices and beliefs on social and political life in North America from contact to 1850. Emphasis on popular religious activity outside of institutional churches and how belief shaped cultural experiences, gender relations and racial politics.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P01 recommended.

HIST 3P09

The Church Besieged: Religion in North America after 1850

Internal and external challenges to Christianity from the late 19th century into the modern era. Emphasis on the effects of scientific discoveries, global conflict and cultural change, feminism and socialism; and the rise of reactionary and fundamentalist religious groups.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P02 recommended.

HIST 3P15

American Enlightenment

Intellectual and cultural history of the thirteen colonies and the early republic. Origins, manifestation and decline of the Enlightenment as seen through the life and writings of seminal American thinkers and less well-known figures. Transatlantic focus on dissemination of ideas and their impact.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P15 recommended.

HIST 3P16

The American Revolution

Historical and historiographical points of view, combining the perspectives of intellectual, political, cultural, military and social history.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P15 recommended.

HIST 3P18

Modern American Popular Culture

Replacement of Victorian ideals with modern popular culture in the 20th century. Multidisciplinary view of American popular culture through the media of literature, art, film and music.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P16 recommended.

HIST 3P21

Race, Class and Gender in Latin America

How questions of race or ethnicity, class and gender affect the way we understand the construction of a specific modern Latin American nation or region.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or

combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.
Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99, or permission of the instructor.

HIST 3P25

History of Modern Political Thought

Historical political ideas and thinkers from early modern England to the formation of the modern state.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3P30

The Viking Age

Follows the Vikings from their Scandinavian homelands as they raid, trade and settle throughout Europe and the North Atlantic, convert to Christianity, establish new kingdoms and eventually assimilate into medieval Christendom.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3P33

Imagining the Past: Introduction to Historiography

Historical thinking, using major examples of historiography from the ancient world until the present.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

HIST 3P34

The Age of Religious Wars and Absolutism, 1559-1715

Religious division in continental Europe from the Wars of Religion to the reign of Louis XIV and its role in the rise of absolutism. Political, religious and social developments in France, Spain, the Netherlands and Prussia.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED

(Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3P35

North America's First Nations

Topics in the history of North American Aboriginal peoples.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: one of HIST 2P01, 2P02, 2P15, 2P16 is recommended.

HIST 3P40

France and its Empire Since the Revolution

Political, social, intellectual history domestically, and expansion and stresses abroad.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P41 or 2P42 recommended.

HIST 3P45

United States Foreign Policy Since 1945

United States foreign policy during the Cold War era including the rise to superpower status, the search for global economic hegemony, the national security state, cultural diplomacy, covert operations and military intervention.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P16 recommended.

* HIST 3P48

Wealth, Work and Power in the United States (also offered as LABR 3P48)

Business, labour and the state in U.S. history, including the evolution of capitalism from home manufacture to mass production to the service sector, the rise of the modern corporation, the changing nature of work,

sexual and racial divisions of labor, public policy, class conflict, welfare capitalism, the Great Depression and New Deal, business and war, deindustrialization, globalization and "free trade."

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior), LABR majors and HIST minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P16 recommended.

HIST 3P52

African American Experience

History and culture since the introduction of peoples from Africa to the North American continent to the present day. Topics include origins of slavery, development of slave culture, varied forms of slave resistance, Civil War and emancipation, rise of sharecropping, formation of ghettos, segregation, the Harlem Renaissance, African Americans in the World Wars, the Civil Rights Movement, urban housing and social problems, rise of rap music.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P16 recommended.

HIST 3P56

Weimar Germany, 1918-1933

Rise and fall of Germany's first republic emphasizing the political effects of the social and cultural developments of the interwar period. Topics include the 'New Woman' and gender relations; Berlin cabaret; Brecht; Bauhaus; art, literature, cinema, modernity and Nazism.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

* HIST 3P60

The World of Genghis Khan: Inner Asia since 500 BC

(also offered as INTC 3P60)

History of Mongolia, Tibet and Xinjiang. Political, economic, social and cultural topics. Emphasis on the nomadic encounter with the settled world (China, Russia), including the medieval nomadic invasions, the Great Game and nationalistic policies in the 20th century. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors, HIST, INTC and INTL minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: seminars will include films and primary sources (in translation). HIST 2P96 recommended.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P60.

* HIST 3P62

Global Economic History, 1700-1880

(also offered as INTC 3P62)

Cotton, china and opium: development of the world economy in an age of industrial growth. *Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors, HIST, INTC and INTL minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P62.

HIST 3P64

Africa and the African Diaspora

Voluntary and involuntary movements of peoples of African ancestry across the continental homeland, their subsequent dispersion around the world and return to Africa.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P62 or 2P63 recommended.

HIST 3P66

African Economic History

The African economy, emphasizing the question of economic development and underdevelopment. Labour, land, production and distribution systems, viewing the economy as deeply interconnected to global political, social and cultural forces.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P62 and 2P63 recommended.

HIST 3P74

Canadian Immigration and Ethnic History

Immigrants, immigration movements, problems of adjustment and government policies.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P01 or 2P02 recommended.

* HIST 3P75

Canadian Labour History

(also offered as LABR 3P75)

Canadian workers and the labour movement from the mid-19th century to the present, combining studies of trade unions with the broader context of the social, community and political life of workers. How gender and race/ethnicity have shaped the working class experience.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior), LABR majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P02 recommended.

HIST 3P76

Canadian Regional History

Selected themes in the history of Canada's regions.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until

date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P02 recommended.

HIST 3P77

The Canadian West

The fur trade era when Aboriginal cultures and economies dominated, through the era of mass immigration, to the Depression and its legacy of social, political and medical innovation.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P02 recommended.

Completion of this course will replace previous assigned grade in HIST 3P76.

HIST 3P81

History of Technology

The role of machines and technology in shaping Western culture from the Industrial Revolution to the Internet; developments in power, information, communication, transportation and military technologies.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3P85

Minorities of the Middle East

Politics of modern Middle Eastern states, the formation of national identity, the changes in the position of ethnic and religious minorities, Christians, Jews and Muslim relations, sectarians, slavery and gender.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3P87

The American West

Colonial rivalries and ethnic struggles in the settlement of the American West until the

present day.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P15 or 2P16 recommended.

HIST 3P89

Chinese Social History

Social and cultural history of China from 221 BC to the mid 20th century. Topics include cultural values and religious beliefs, rural and urban life, family, kinship and gentry, social stratification and conflict, women and gender, lifestyle and regional differences.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2F92 recommended.

HIST 3P90

The Rise and Fall of the Russian Empire

The Russian empire and its components over the past 500 years. Topics include expansion, nationalities, diplomacy and the politics of dissolution in the post-Soviet era.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P96 or 2P98 recommended.

HIST 3P98

French Canada

Cultural, economic and political institutions of French Canada. Sources of French-English conflict, emphasizing such issues as education, cultural values, imperial defence and conscription.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3P99

The Challenge to Social Order in 18th-Century England

The basis of Hanoverian stability and the threat to it from political factionalism, popular dissent and economic upheaval.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2F20 recommended.

HIST 3Q93

The Crusades

The Crusading Movement 1095-1291, including its growth in western Europe, the crusader kingdoms, crusades outside the Holy Land and the Islamic response to the crusades.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3Q94

Revolution in Latin America

Social, economic and intellectual roots of revolution in Mexico and Central America. Comparison of how revolutionary leaders used class, race and gender to recruit allies or isolate enemies.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P08 and 2P09 (3F81) recommended.

HIST 3Q97

History and the North American Environment

Overview of human interaction with nature in North America; nature and natural resources as they shape patterns of human life; how attitudes toward nature shape cultural and political life; the consequences of human alterations of the natural world for natural and human communities.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered

2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: one of HIST 2P01, 2P02, 2P15, 2P16 recommended.

HIST 3Q99

The Sixties

Social movements and social change in the United States in the 1960s; student, civil rights, antiwar, women's and other forms of activism; global context; causes and consequences of '60s revolts.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

HIST 3V90-3V94

Topics in Canadian History

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisite: one of CANA 2P91; 2P92 (2F91), two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P02 recommended.

HIST 3V90

2009-2010: Nineteenth-Century Canadian History

Major themes in social and political history of Nineteenth-Century Canada.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisite: one of CANA 2P91, 2P92 (2F91), two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P02 recommended.

* HIST 4F30

Topics in History and Computing (also offered as IASC 4F30)

Historians' use of the computer to support interpretation, expression and teaching. Material presented through readings and an applied exercise: 3D model construction. Use of photographs, maps and 3D modelling software to generate models of historic buildings.

Note: no programming or software experience required.

HIST 4P00

Literature of the English Revolution

(also offered as ENGL 4P00)

Writings from the 1640s to the Restoration, including Areopagitia, Baislike, female prophesy and Agreement of the People, from literary, critical, historical and theoretical perspectives.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), ECUL, ENGL (single or combined) and ENGL (Honours)/BEd (intermediate/Senior) majors with approval to year 4 (honours) and EWRT majors with a minimum of 14.0 overall credits and a minimum major average of 60 percent or permission of the instructor and the Chair.

HIST 4P11

State and Society in Colonial Canada

Major cultural and political themes in Canadian colonial history from the British conquest of Acadia to the Confederation of the colonies.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grade and credit obtained in HIST 4V11.

HIST 4P34

European Military History since 1700

Topics primarily from French, German, Russian and British military history.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grade and credit obtained in HIST 4V34.

HIST 4P35

Witchcraft Episodes in Britain and America, 1500-1700

Persecution for witchcraft within the context of religious change, socio-economic friction and gender relations. Comparative focus on the nature of witchcraft episodes in England, Scotland and New England.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the

Registration guide and then open to other students with permission of the Department.

Completion of this course will replace previous assigned grade and credit obtained in HIST 4V35.

HIST 4P36

American Political Ideas, 1760-1805

American political ideas and the historiography of the Founding Era.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grade and credit obtained in HIST 4V36

HIST 4P38

The Russian Revolution

Causes of the Romanov dynasty's collapse and its replacement by Bolshevism.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grad and earned credit in HIST 4V38.

HIST 4P41

The Holocaust

Origins, nature and legacy of the Holocaust.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grad and earned credit in HIST 4V41.

HIST 4P43

Censorship: A Comparative Approach

Comparison of attitudes and approaches to censorship in a number of contexts including the Inquisition, the English Civil War, absolute monarchy, the French Revolution and the totalitarian state between the Middle Ages and the 20th century.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous

assigned grad and earned credit in HIST 4V43.

HIST 4P50

Directed Research

Directed research on a selected topic.

Restriction: permission of the instructor and the Department.

Note: A research proposal must be submitted by March 31 before entering year 4.

HIST 4P60

History of Disease in Society

(also offered as CHSC 4P60)

Issues around the perception, treatment and social effects of disease in Western society.

Lectures, 3 hours per week.

Prerequisite: HIST 2P60.

HIST 4P62

Religious Radicalism

Religious dissent and nonconformity examined using the principles of inquiry-based learning.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grade and credit obtained in HIST 4V62.

HIST 4P67

The World We Have Lost: Comparative Rural History

Major patterns of international rural history, emphasizing cultural, political and social questions.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department. Completion of this course will replace previous assigned grade and credit obtained in HIST 4V67.

HIST 4P90

Advanced Seminar

Graduate level seminar on a selected topic.

Restriction: permission of the instructor and the Department.

HIST 4P99

Honours Tutorial

Directed reading in a selected field.

Restriction: permission of the instructor and the Department.

Note: application must be submitted by March 31 before entering year 4.

HIST 4V00-4V05

Themes in Literature and History

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in Registration guide and then open to other students with permission of the Department.

HIST 4V06-4V79

Topics in History

Studies of selected problems in different eras of Canadian, American and European history. Topics studied in any given year will focus on a particular theme.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) and HIED majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V22

2009-2010: Africa in World History

The African encounter with the wider world, focusing on African contacts with Arabs and Europeans, global migrations, imperialism and African response, the world wars and decolonization.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V25

2009-2010: Race, Ethnicity and Immigration in the United States

Experiences of various ethnic groups in the development of the United States from the 19th century to present.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V26

2009-2010: Topics in Latin American History

Seminar, 3 hours per week.
Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V29

2009-2010: Wallace, Bruce and the Wars of Scotland, 1286-1346

Wars of Independence. Who these men were, what they fought for and why they remain prominent figures in Scottish history and legend.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V44

2009-2010: The French Revolution

The intersection of the ideals of the French revolutionaries with late 18th-century views about social hierarchy, gender, property and race. Topics include the collapse of absolute monarchy, the origins of the important ideals of the revolutionaries and the obstacles faced in their implementation.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V45

2009-2010: From Bukhara to Borat: Modern Central Asia

Central Asia from 1900 to the present. The region (Afghanistan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan) as it evolved into the modern age. Topics include relations with other powers (Russia, Iran, Britain, US, China), Islam, society, the role of women and the "war on terror."

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V49

2009-2010: Science and 19th-Century Culture

Social and cultural history of 19th-century science and technology, focusing on Victorian Britain. How railways, evolutionary theory, industrialization and secularization changed people's lives and their perception of the world.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

Note: no background in science is required.

HIST 4V56

2009-2010: Intellectuals and Revolution in 20th-Century China

Major themes in the history of Chinese intellectuals in the 20th century, especially their involvement in the Communist revolution and the development of the People's Republic of China.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V59

2009-2010: Women of the Middle East

The significance of religion, culture, economy and politics in shaping the role of women and their contributions to modern Middle Eastern societies. The changing status of Middle Eastern women, and their images in tradition and Islamic law as well as Western literature.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

HIST 4V65

2009-2010: First Nations in Modern Canada

Selected topics in the history of Aboriginal people in Canada. Topics include colonialism, interactions with missionaries, treaties and Aboriginal sovereignty, education and residential schools, health and health care policies, activism, oral narratives, land claims and resource exploitation.

Seminar, 3 hours per week.

Restriction: open to HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors with approval to year 4 (honours) until date specified in the Registration guide and then open to other students with permission of the Department.

Integrated Studies

Students wishing to pursue a pattern of studies which does not coincide with either a single major or a combined major program may choose an Integrated Studies program.

An Integrated Studies Program is offered at both Honours and Pass levels for students whose special interests cannot be accommodated by a major, combined major or General Studies program. (An Integrated Studies program in Education is not available). A student who chooses an Integrated Studies program must receive prior approval for such a program or any subsequent changes to an approved program from the appropriate Dean.

Program Requirements

A student electing to pursue an Integrated Studies program must maintain a minimum 70 percent major average and 60 percent non-major average in order to continue in the program and to graduate. Additionally, an Integrated Studies program must include a APCO/COSC/MATH credit if the pattern of study includes an emphasis in Science or Social Science, or a language credit (in accordance with the language requirement of the Faculty of Humanities) if the pattern of study includes an emphasis in the Humanities. Both may be required where circumstances warrant. When choosing a program students should take care that prerequisites for advanced courses are met and that the schedule for cycled courses be considered.

Program Note

1. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Interactive Arts and Science

This program is offered through the Centre for Digital Humanities

Director
Martin Danahay

Academic Adviser
Alisa Cunningham

General Information

Administrative Assistant
Christine Coughlin Poerschke

905-688-5550, extension 5363
Thistle 269F
<http://www.brocku.ca/iasc>

The Interactive Arts and Science (IASC) program, offered through the Centre for Digital Humanities, provides students an opportunity to study and work in the exciting and rapidly expanding interdisciplinary field of new media and digital interactivity. In this program students will explore the interplay of digital media and our understanding of human identity and values with careful attention to ways in which discourses in technoculture, narrative, gameplay, computing and media production intersect. In addition to core IASC courses that blend theory and practice and facilitate the development of new media portfolios, students can satisfy their individual interests in selection of courses from departments as diverse as Classics, Communications, Popular Culture and Film, Computer Science, Dramatic Arts, Education, English, Geography, History, Music, Studies in Arts and Culture and Visual Arts.

The IASC program aims to engage students in learning through independent inquiry, problem solving and portfolio building. The program encourages the exploration of digital and interactive tools for analyzing, representing and visualizing ideas in many traditional academic areas. Conceptual strategies such as interactive fiction, games and simulations are tested in hands-on projects and multimedia creation. Students will enjoy the freedom to probe, analyze, manipulate and transform ideas into action. Because of the interdisciplinary nature of interactivity, team-based work creates opportunities to tackle complex projects in new and exciting media.

Facilities

The Centre for Digital Humanities provides two classroom laboratories; two multimedia learning spaces; a game testing and new media development labs. Also accessible to the program is a video conferencing facility; computer graphics and multimedia lab.

Language Requirement for Humanities Majors

Students in the Interactive Arts and Science program are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirement, both half-credits must be in the same language. With the permission of the Director students may use the following computer language courses, IASC 1P00, 1P30, or 1P93 to satisfy this requirement.

Program Notes

1. Context credits and language requirement must normally be completed within the first ten credits. CLAS 1P95, 1P97, DART 1F93, FILM 1F94, MUSI 1F50, IASC 1Q98, 1Q99 are recommended as the Humanities context requirement; PSYC 1F90, GEOG 1F90, CHYS 1F90 are recommended as the Social Sciences context requirement.
2. IASC 1P01 or 1P30 are recommended.
3. Year 3 courses are normally restricted to students with a minimum of three credits numbered 2(alpha)00 or above or permission of the instructor.
4. Non-majors and those without a declared minor in IASC may enroll in a maximum of one IASC studio course without a portfolio.
5. Enrolment in IASC is restricted due to space and equipment limitations.
6. Portfolio evaluation and interview are required of students seeking to change their major to Interactive Arts and Science. The Program will consider these requests in January and May of each year. Contact the Program for further information.
7. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three

credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- IASC 1F00 and 1P10
- one language credit (see language requirement)
- one Humanities context credit (see program note 1)
- one Social Sciences context credit (see program note 1)
- one-half elective credit (see program note 2)

Year 2

- IASC 2F00 and 2P10
- one credit from IASC 1P30, 1P96, 1P97, 1Q98, 1Q99, 2P03, 2P04, 2P25, 2P50, 2P57, 2P70, 2P93, 2P94, DART 2F94, 2P92, FILM 1F94 (not taken in Year 1)
- one and one-half credits from IASC 2P07, 2P27, 2P60, 2P89, 2P90, 2P91, 2P95, 2P96, COMM 2P26
- one Sciences context credit

Year 3

- IASC 3F00 or 3F90
- one and one-half credits from IASC 2P28, 3F01, 3P01, 3P14, 3P26, 3P39, 3P62, 3P90, DART 3F94, FILM 2P94, PCUL 2P20
- one and one-half credits from IASC 2P97, 2P98, 2P99, 3P05, 3P10, CHSC 3P92, DART 3P95, 3P96 MUSI 2Q98, 2Q99
- one elective credit

Year 4

- IASC 3P97 and 4F00
- two credits from IASC 3F96, 3P98, 3P99, 4F30, 3P28, 3P92, 3P94, DART 3F61, DART 3P92, DART 4F90, MLLC 3P99
- one and one-half elective credits

Pass Program

Year 1

- IASC 1F00 and 1P10
- one language credit (see language requirement)
- one Humanities context credit
- one Social Sciences context credit
- one-half elective credit (see program note 2)

Year 2

- IASC 2F00 and 2P10
- one credit from IASC 1P30, 1P96, 1P97, 1Q98, 2P03, 2P04, 2P25, 2P50, 2P57, 2P70, 2P93, 2P94, DART 2F94, 2P92
- one and one-half credits from IASC 2P07, 2P27, 2P60, 2P89, 2P90, 2P91, 2P95, 2P96, COMM 2P26
- one Sciences context credit

Year 3

- One and one-half credits from IASC 2P97, 2P98, 2P99, 3P05, 3P10, CHSC 3P92, DART 3P92, MUSI 2Q98, 2Q99
- one and one-half credits from IASC 3F00, 3F90 and 3P97
- one and one-half credits from IASC 2P28, 3F01, 3P01, 3P14, 3P26, 3P39, 3P62, 3P90, DART 3F94
- one-half elective credit

Combined Major Program

Interactive Arts and Science students may combine either an Honours or Pass program and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

- IASC 1F00, 1P10, 2F00, 2P10 and 3F00
- three IASC credits (see program note 3)

Pass

- IASC 1F00, 1P10, 2F00, 3F00
- two IASC credits (see program note 3)

Concentration in Computer Game Development

Students may earn a Concentration in Computer Game Development by successfully completing the following courses as part of the academic work leading to a BA (Honours) in Interactive Arts and Science:

- IASC 1P00, 1P30, 1P50, 1P93, 2P10, 2P60, 2P89, 2P95, 3F90, 3P26 and 3P94

Minor Program

Students in other disciplines can obtain a Minor in Interactive Arts and Science within their degree program by completing the following courses with a minimum 60 percent overall average:

- IASC 1F00, 2F00 and 3F00
- one credit from IASC 1P00, 1P10, 1P30, 2P10, 2P60, 2P95, 2P96
- one credit from IASC 2P90, 2P91, 3F90, 3P01, 3P26, 3P62, 3P90, 4F00, 4F30

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

IASC 1F00

Introduction to Interactive Arts and Science
Information and knowledge acquisition in digital and networked environments. Concepts of originality, authorship, immediacy, hypermediacy and intellectual property in new media. Examination and use of diverse narrative conventions especially those informed by interactivity and new media. Research and hands on application of digital tools for interactivity and multimedia
Seminar, lab, 4 hours per week.

Restriction: open to IASC (single or combined) majors until date specified in Registration guide.

Note: enrolment limited to 20 students. Materials fee required. Students must supply any additional materials.

IASC 1P00

Introduction to Media Computation
(also offered as APCO 1P00)

Programming by example; encoding and

manipulating pictures (such as grayscale and colour replacement); pixel manipulation (such as red eye and mirroring); designing and debugging; text manipulation with HTML; file processing; automatic generation and manipulation of web pages; sound processing (such as MP3, encoding, volume and splicing); objects and graphical user interfaces.

Lectures, 3 hours per week; lab, 2 hours per week; tutorial, 1 hour per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors. Note: prior computer experience is not required.

IASC 1P01

Fluency With Technology
(also offered as APCO 1P01)

Skills, concepts and capabilities of computers, networks and the Internet. Topics include representation of information, current hardware, software and network technologies, modelling with Excel, presentations with Powerpoint, Internet searching and basic web page development with HTML.

Lectures, 3 hours per week, lab, 2 hours per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors.

Note: some prior computer experience is preferred but not required.

IASC 1P10

Introduction to Media Tools

Systematic examination of imaging, multimedia authoring and animation software tools and their application to problems in visualization, representation and sequencing of image, text, video and audio content. Portfolio development emphasizes conceptualization and reflection in new media contexts.

Lab, 4 hours per week.

Restriction: open to IASC (single or combined) majors until date specified in Registration guide.

Note: enrolment limited to 24 students. Materials fee required. Students must supply any additional materials and equipment.

* IASC 1P30

Programming for Interactive Media
(also offered as APCO 1P30)

Introduction to ActionScript and object-oriented programming syntax and usage for classes, functions, properties and events in interactive Flash applications for the web.

Lab 4 hours per week.

Restriction: open to IASC (single or combined) majors until date specified in Registration guide.

Note: enrolment limited to 24 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 1P50

Integrity and Literacy in the Information Age (also offered as APCO 1P50 and COSC 1P50) Professional issues in computing including historic and social perspectives, legal issues, licensing and copyright, social and ethical issues, professional conduct and information literacy.

Lectures, 3 hours per week; seminar, 2 hours per week.

Note: this course involves seminars and considerable written work. A good command of written and spoken English is required.

IASC 1P93

Applied Programming

(also offered as APCO 1P93)

Modern software techniques including problem solving and design of effective algorithms, structured program design methodology, subprogram library usage, documentation, correctness, floating-point arithmetic and error analysis.

Lectures, 3 hours per week; lab, 2 hours per week; tutorial, 1 hour per week.

Restriction: not open to COSC (single or combined), BCB, CAST and CNET majors. Prerequisite: APCO 1P00 or 12U mathematics credit.

IASC 1P96

Foundation Studio

(also offered as VISA 1P96)

Basic aesthetic and conceptual processes that underlie visual art production. Two- and three-dimensional formal principles, fundamental critical issues and stylistic/material development. Examples from historic and contemporary art practice provide context for studio projects and readings.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined), VISA (Honours)/BEd (Intermediate/Senior) majors and Production and Design Concentration students until date specified in the Registration guide. After that date open to IASC (single or combined) majors.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials.

IASC 1P97

Studio Now: Introduction to Contemporary Practice

(also offered as VISA 1P97)

The making, thinking and language of contemporary art from the perspective of the studio practitioner; dynamics between contemporary art practice and theory. Emphasis on multimedia, alternative or marginal practices, current studio trends and the cultural reception of art.

Lectures, studio work, gallery visits, 5 hours per week.

Restriction: open to VISA (single or combined)

and VISA (Honours)/BEd (Intermediate/Senior) majors until date specified in the Registration guide. After that date open to IASC (single or combined) majors.

Prerequisite: VISA 1P96 (minimum 60 percent).

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials

IASC 1Q98

Introduction to Visual Culture

(also offered as LART 1Q98 and VISA 1Q98)

Concepts of art, its vocabulary, structure and varied cultural contexts. Problems of meaning, visual perception and formal structure of the visual arts, functions of art in contemporary society, the function of galleries and museums, and the role of patrons and critics. Contemporary critical methodology.

Lectures, seminar, 3 hours week.

Note: no studio work. Materials fee required. Completion of this course will replace previous assigned grade and credit obtained in GBL 1Q98.

IASC 1Q99

Introduction to the History of Western Art

(also offered as LART 1Q99 and VISA 1Q99)

Analysis of key monuments and the prerequisite technology, as well as various ways of looking at the visual past and present. Focus on the visual arts from prehistory through the early 20th century.

Lectures, seminar, 3 hours week.

Note: no studio work. Materials fee required. Completion of this course will replace previous assigned grade and credit obtained in GBL 1Q99.

IASC 2F00

Discourses and Practice in Interactive Games

Key concepts in gameplay and narratology. Examination of interaction design based on usability and human factors. Analysis of interactive and video games from cultural and social perspectives.

Seminar, lab 4 hours per week.

Restriction: open to IASC (single or combined) majors until date specified in Registration guide.

Prerequisite: IASC 1F00 (minimum 60 percent) or permission of instructor.

Note: enrolment limited to 24 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 2P03

Early Medieval Britain 400-1000: Celts, Saxons and Vikings

(also offered as HIST 2P03)

The end of Roman Britain to the Danish invasions and conquest of 1013-16. Migrations, invasions and settlements of Anglo-Saxons, Scots and Vikings; Romano-British and

Brittonic society; quest for King Arthur; processes of state formation; heroic society; warfare; conversion to Christianity.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), IASC majors and minors until date specified in Registration guide.

IASC 2P04

Medieval Britain 1000-1485: The Four Nations

(also offered as HIST 2P04)

Medieval Britain from the Danish invasions and conquest of 1013-16 until the Wars of the Roses. Emphasis on Celtic societies; Norman Conquest and impact; kings and kingship; church and monasticism; Anglo-Celtic relations, including the Scottish Wars of Independence and the English conquest of Wales.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior), IASC majors and minors until date specified in Registration guide.

IASC 2P07

Foundations of Geomatics

(also offered as ERSC 2P07 and GEOG 2P07)

Introduction to spatial, metric, graphic and other concepts common to cartography, photogrammetry, remote sensing and geographic information systems (GIS). Properties of maps and air photos and satellite imagery. Principles of map compilation and design. Practical experience in computer mapmaking, image interpretation and GIS analysis.

Lectures, lab, field work, 4 hours per week.

Restriction: open to IASC, ERSC (single or combined) and GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01 (1F95), GEOG 1F90, 1F91 or permission of the instructor.

IASC 2P10

Media Tools for Interactivity

Exploration of real-time graphical programming environment for audio, video and graphical processing using patcher programming languages such as Pure Data and Max/MSP. User-centred interaction with systems through tactile, aural and visual senses using sensors and actuators.

Lab, 4 hours per week.

Restriction: open to IASC (single or combined) majors and minors until date specified in Registration guide.

Prerequisites: IASC 1F00 (minimum 60 per

cent); one of IASC 1P00, 1P10, 1P30, 1P93.
Note: enrolment limited to 24 students.
Materials fee required. Students must supply
any additional materials and equipment.

IASC 2P25

Revolutions in Communication

(also offered as HIST 2P25)

Major developments in the history of
communication from the invention of writing
until the modern information age.

Lectures, seminar, 3 hours per week.

Restriction: open to IASC (single or
combined), HIST (single or combined), HIST
(Honours)/BEd (Intermediate/Senior) majors
and minors until date specified in Registration
guide.

IASC 2P27

Introduction to Digital Imaging

(also offered as COMM 2P27 and VISA 2P27)

Principles in digital imaging: digital cameras
and image capture; digital negatives; colour
management; image adjustment and
enhancement and image output. History of
photography, imaging and critical analysis of
visual culture.

Seminar, lab, 5 hours per week.

Restriction: open to IASC (single or
combined), COMM, VISA (single or
combined) and VISA (Honours)/BEd
(Intermediate/Senior) majors until date
specified in Registration guide.

Prerequisite: one of IASC 1F00, APCO 1P00
and 1P01, COMM 1F90, VISA 1P97 or
permission of the instructor.

Note: enrolment limited to 24 students.
Materials fee required.

IASC 2P28

**Persuasive Discourse: Theoretical
Foundations**

(also offered as ENGL 2P28 and WRIT 2P28)

Classical foundations, historical developments
and contemporary theory. Includes the relation
of language use to cultural practices, ethics,
identity and power. Analysis of various genres
of texts and persuasive writing in popular
culture and mass media.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from IASC 1F00,
COMM 1F90, ENGL 1(alpha)90 to
1(alpha)99, WRIT 1(alpha)80 to 1(alpha)99
or permission of the instructor.

IASC 2P50

Great Myths in Literature and Art

(also offered as CLAS 2P50)

Most influential myths in Greek and Latin
literature and in ancient art, emphasizing
continuity of themes and images. Selected
readings in major genres of poetry and prose.
Selected works of painting and sculpture.

Lectures, seminar, 3 hours per week.

Prerequisites: CLAS 1P95 and 1P97.

IASC 2P57

Representing the World in Modern Fiction

(also offered as ENGL 2P57)

Major modes in the representation of human
experience in modern fiction: romance, realism,
modernism and postmodernism. Novels and
short stories.

Lectures, seminar, 3 hours per week.

Prerequisite: IASC 1F00, one ENGL credit
numbered 1(alpha)90 to 1(alpha)99 or
permission of the instructor.

* IASC 2P60

**Web 2.0 Content, Construction,
Collaboration**

(also offered as APCO 2P60)

Context and topics in web-based interactive
environments, communities and social
networks designed for sharing content, user
interaction and collective intelligence. Blogs,
videoblogs and vodcasts; peer 2 peer and
consumer 2 consumer; RSS, agents and
recommender systems; social networks; online
communities and virtual environments;
tagging, bookmarking; wikis; mashups;
collaborative and open source software and
working environments.

Lectures, seminar, 3 hours per week.

IASC 2P70

Introduction to Literary Theory

(also offered as ENGL 2P70)

Approaches to meaning and interpretation in
the contemporary study of literature.

Lectures, seminar, 3 hours per week.

Prerequisite: IASC 1F00, one ENGL credit
numbered 1(alpha)90 to 1(alpha)99 or
permission of the instructor.

IASC 2P89

Internet Technologies

(also offered as APCO 2P89 and COSC 2P89)

Concepts and techniques for building and
maintaining advanced interactive Web sites.
Topics include XML and SGML, database
connectivity and forms handling, basic
animation, graphics optimization for the Web,
scripting, advanced searching and Web design
for accessibility.

*Lectures, 3 hours per week; lab/seminar, 2 hours
per week.*

Prerequisite: one of IASC 1P00 (minimum 60
percent) and 1P01 (minimum 60 percent) or
COSC 1P03 (minimum 60 percent).

IASC 2P90

Computer-Mediated Communication

(also offered as COMM 2P90)

Nature of computer-mediated communication
(CMC) and its role in social, educational and
interpersonal contexts. Introduction to
technology and methodologies essential to
explore the potential of CMC.

Lectures, 3 hours per week.

Prerequisite: COMM 1F90 or IASC 1F00 or
permission of the instructor.

IASC 2P91

**Hypertext: Reading and Writing in New
Spaces**

(also offered as COMM 2P91)

Theory, philosophy and politics of Hypertext
as a communicative mode. Topics include
critical theory in a Hypertext context, changing
perceptions of reader narrative, new forms of
Hypertext fiction and Hypertext compared
with other electronic textuality.

Lectures, seminar, 3 hours per week.

Prerequisite: IASC 2P90 or permission of the
instructor.

IASC 2P93

**Critical Practice in the Fine and Performing
Arts**

(also offered as STAC 2P93)

Interdisciplinary approach to key ideas about
music, art, dance and drama through critical
readings and guided exposure to selected public
fine and performing art events. Exploration of
issues in aesthetics and criticism using varied
theoretical approaches.

Lectures, seminar, 3 hours per week.

Prerequisite: one of IASC 1F00, DART 1F93,
MUSI 1F10, PEKN 4P76 (3P76), VISA 1Q98
and 1Q99.

Note: event attendance is required; events fees
required.

Completion of this course will replace previous
assigned grade and credit obtained in STAC
2F90.

IASC 2P94

Embodied Text: Art Beyond the Artifact

(also offered as STAC 2P94)

Consideration of the ways that art functions
outside the conventions associated with words,
texts, paintings and scores. Creative process and
projects that put into practice musical, visual,
movement and theatre vocabularies through the
exploration of spatial/temporal/aesthetic/
embodied forms of art in performance.

Seminar, workshop, 4 hours per week.

Prerequisite: IASC 2P93 (STAC 2F90) or
permission of the instructor.

IASC 2P95

Introduction to Web-based Interactive Media
(also offered as APCO 2P95, COMM 2P95
and VISA 2P95)

Basic technical and design foundations of web-
based media production, including image
processing, interactive web design and
multimedia production. Locates contemporary
digital practices within the broader history of
cultural production, tracing developments in
technology and media arts.

Seminar, lab, 5 hours per week.

Restriction: open to IASC (single or combined), COMM, VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of IASC 1F00, APCO 2P89, COMM 1F90, VISA 1P97.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials and equipment, which they must supply.

IASC 2P96

Introduction to 3D Modelling and Animation (also offered as COSC 2P96 and VISA 2P96) Concepts and skills of 3D modelling and rendering. Approaches to building models, using texturizing, lighting, cameras and rendering as well basic animation techniques. Relevant historic and theoretical perspectives on 3D and virtuality situating 3D within creative process and broader critical practices in cultural production.

Seminar, lab, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of IASC 1F00, 4.0 COSC credits, VISA 1P97.

Note: enrolment limited to 24 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 2P97

Digital Video Art (also offered as VISA 2P97)

Concepts of basic videography and its applications within conceptual and aesthetic studio practice. Camerawork, composition and lighting; digital video and audio editing, special effects, composing, text and titling; and DV output. Critical analysis of recent and contemporary film and video practices.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: IASC 1F00, VISA 1P97 (minimum 60 percent) or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 2P98

Intermedia: Time and Space (also offered as VISA 2P98)

Approaches to the conceptualization and production of video, sound generation, multimedia environments, performance, interactive and installation art.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined)

and VISA (Honours)/BEEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: IASC 1F00, VISA 2P97 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 2P99

Introduction to Sound Design (also offered as VISA 2P99)

Approaches to the conceptualization and production of sound recording, notation, field-recording, Foley arts, soundtrack production, experimental music and performance.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined) majors until date specified in Registration guide.

Prerequisite: IASC 1F00, 2P97 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 3F00

Imagining Immersive Worlds

Simulation, models, scenarios and immersive environments and game design for social analysis, entertainment, education and play. Critical examination of game genres and applications.

Seminar, lab, 4 hours per week.

Restriction: open to IASC (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: IASC 2F00 (minimum 60 per cent) and one IASC credit numbered 2(*alpha*)00 or above.

Note: enrolment is limited to 24 students. Materials fee is required. Students must supply any additional materials and equipment.

* IASC 3F90

Survey of Humanities Computing (also offered as HIST 3F90)

Research and concepts associated with the emerging discipline of humanities computing. Topics may include use of computer games in the humanities, hypertext design and delivery and current theory treating the use of multimedia as an instrument for expression.

Seminar, 3 hours per week.

Restriction: open to students who have completed 10.0 overall credits.

Note: enrolment limited to 20 students.

IASC 3F96

Interdisciplinary Workshop

(also offered as DART 3F96 and VISA 3F96) Advanced studio workshop in interdisciplinary studio practices, including video, performance, audio and conceptual art, including interventions and other time-based or

experimental media. Projects involve collaboration and investigation of alternatives for public dissemination of artworks.

Lectures, studio work, reading, movement exercises, off-campus projects, 5 hours per week.

Prerequisites: one credit from VISA 2P95, 2P96, 2P97, 2P98, (2F96), 2P99 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials. Several field trips are organized outside of the regular course meeting time. Students participating in field trips are expected to pay their own expenses.

IASC 3P01

Media Transformations in the Creative Arts (also offered as STAC 3P01 and VISA 3P01)

The trajectory and influences of new media on the development of and discourses in 20th century and contemporary creative production including the arts, broadcast, film, video and electronic arenas such as the internet, games and interactive media. Overview of fundamental concepts, practices and language. Consideration of aesthetics, production, script and story, direction, authorship, collaborative process and distribution.

Lectures, 3 hours per week.

Prerequisites: two IASC, COMM, ENGL, STAC, VISA or WRIT credits or permission of the instructor.

IASC 3P05

Geographic Information Systems (also offered as ERSC 3P05 and GEOG 3P05)

Principles and use of computer-based systems for capturing, managing, manipulating, analysing and displaying data relating to the Earth's surface, emphasizing raster applications. Practical work using Idrisi.

Lectures, lab, 5 hours per week.

Restriction: open to IASC (single or combined), GEOG (single or combined), GEOG (Honours)/BEEd (Intermediate/Senior) and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: IASC 2P07 or permission of the instructor.

IASC 3P10

Expanded Video Process and Production

(also offered as STAC 3P10 and VISA 3P10) Practical and conceptual strategies in moving image production using digital video capture, other time-based media and emerging technologies. Contextualization in contemporary discourses. Script, location, directing actors, sequence, production design, planning and process, editing and effects.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) until the date specified in the Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: two IASC, STAC or VISA credits or permission of the instructor.
Note: enrolment limited to 18 students. Material fees required. Students must supply any additional materials

IASC 3P14
Dramatic Creation for Contemporary Cultural Practice
(also offered as DART 3P14, STAC 3P14 and VISA 3P14)

Components of dramatic story. Understanding character, dramatic action, structure, direction, improvisation, tempo, rhythm, voice and body potential. Theory and practical application in projects for creators in the arts, media and film.
Seminar, workshop 3 hours per week.

Prerequisites: two IASC, COMM, DART, STAC or VISA credits or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials.
Students will not receive earned credit for STAC 3P14 if DART 2F92, 3P92 or 3P53 have been successfully completed.

IASC 3P26
Social and Political Aspects of Digital Gaming
(also offered as COMM 3P26 and PCUL 3P26)

Critical investigation of digital gaming, particularly of the interrelationships between communication, media, computing and software development.

Lectures, seminar, 3 hours per week.

Prerequisite: IASC 2F00 or COMM 2P20.

IASC 3P28
Rhetorical Analysis
(also offered as ENGL 3P28 and WRIT 3P28)
Analysis of literary and non-literary texts using categories, insights and practices of classical and contemporary rhetorical studies. Texts include poetry, fiction, drama, journalism, scientific and political writing, and advertising. Attention to the rhetoric of public spaces, issues of social justice, and the building and maintenance of human communities.

Lectures, seminar, 3 hours per week.

Prerequisite: two IASC or ENGL credits, one WRIT credit numbered 2(alpha)00 or above or permission of the instructor.

IASC 3P39
Contemporary Literature in English
(also offered as ENGL 3P39)
The postmodern period emphasizing the forms, approaches and cultural responses that have characterized writing in English in the later 20th century.

Lectures, seminar, 3 hours per week.

Prerequisite: one of IASC 2P57 and 2P70, two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

IASC 3P62
Video Games in the Classroom
(also offered as EDUC 3P62)
Research and current issues related to the integration of video games and other interactive new media technologies into the elementary and secondary school instructional program.
Lectures, seminar, 3 hours per week.
Restriction: open to students with a minimum of 6.0 overall credits.

IASC 3P90
Advanced Topics in Digital Culture
(also offered as COMM 3P90)
Explorations of topics such as virtual communities, cyber-identity/identities and cyber-spirituality.
Lectures, lab, seminar, 4 hours per week.
Prerequisite: IASC 2P90 or permission of the instructor.

IASC 3P92
Technology and Culture
(also offered as COMM 3P92 and PCUL 3P92)
Exploration of mutually productive relationships among cultural practices and technologies, using historical and contemporary examples.
Lectures, seminar, 3 hours per week.
Prerequisite: one of IASC 1F00, COMM 2P20, 2P21 or permission of the instructor.

IASC 3P94
Introduction to Human Computer Interaction
(also offered as APCO 3P94 and COSC 3P94)
Human factors in the design and support of computing systems. Design methodologies such as GOMS, TAGs and Task Analysis. Design principles relating to various interaction paradigms.
Lectures, 3 hours per week; lab/seminar, 2 hours per week.
Prerequisite: one of, two IASC credits (minimum 60 percent), APCO 1P50 (minimum 60 percent), two APCO credits (minimum 60 percent).

IASC 3P97
Interactive Media Portfolio
Cumulative portfolio that presents and reflects upon individual and team work (process and completed productions) developed through Interactive Arts and Science program.
Lab, 4 hours per week.

Restriction: open to IASC (single or combined) majors with a minimum of 10.0 overall credits.
Prerequisite: IASC 3F00.
Note: enrolment limited to 15 students. Materials fee required. Students must supply any additional materials and equipment.

IASC 3P98
Directed Studies
Program of study through research and readings designed in consultation with the faculty member directing the course.
Restriction: open to IASC (single or combined) majors with a minimum 10 overall credits or approval of the Director.
Note: arrangements must be made with the Director prior to registration.

IASC 3P99
Directed Project
Interactive media project with directed readings designed in consultation with the faculty member directing the course.
Restriction: open to IASC (single or combined) majors with a minimum 10 overall credits or approval of the Director.
Note: arrangements must be made with the Director prior to registration.

IASC 4F00
Team-based Practicum in Interactive Media Design and Production
Principles and methodologies around interactive design; interface design and information design in relation to the conceptualization, planning and production of an interactive multimedia project taking into account diverse and complementary roles of writing, narrative structure, play mechanics, and the creation and integration of visual and audio elements.
Seminar, lab, 5 hours per week.
Restriction: open to IASC majors with a minimum of 14.0 overall credits and a minimum 75 percent major average and permission of the instructor and the Chair.
Note: enrolment limited to 20 students. Materials fee required. Students must supply any additional materials

IASC 4F30
Topics in History and Computing
(also offered as HIST 4F30)
Historians' use of the computer to support interpretation, expression and teaching. Material presented through readings and an applied exercise: 3D model construction. Use of photographs, maps and 3D modelling software to generate models of historic buildings.
Note: no programming or software experience required.

Intercultural Studies

Director

Deborah Yeager-Woodhouse

Participating Faculty

Kojo Saffu (Organizational Behaviour, Human Resource Management, Entrepreneurship and Ethics), David Schimmelpenninck (History), John Sivell (Applied Linguistics), David Telfer (Tourism and Environment)

General Information

Administrative Assistant

Sylvia Barlow

905-688-5550, extension 4224

573 Glenridge 213

<http://www.brocku.ca/intl>

The Centre for Intercultural Studies offers an interdisciplinary program homed in the Humanities; the program takes the form of a Minor, which can be combined with a Major of the student's choice. As well an internship option is available.

With a special emphasis on language, narrative, history, philosophy and the arts, the program explores principles, mechanisms and instances of intercultural contact and communication in national and international settings.

Students of Intercultural Studies examine ways in which similarities and differences in beliefs, values, norms, practices and aspirations illuminate not only cultural variations but also relations among individuals and groups.

The program recommends that students consider gaining experience abroad, normally in year 3. INTC 3P91 is specifically designed for completion while abroad. The Office of International Services also facilitates formal exchange programs with numerous countries. See the International Study and Exchange entry for more information. Moreover, additional international exchange opportunities are offered through the Department of Modern Languages, Literatures and Cultures.

Minor in Intercultural Studies

Students can obtain a Minor in Intercultural Studies within their degree in another discipline

by completing the following courses with a minimum 60 percent overall average:

- INTC 1F90, 2P94, 3P92, and 4P50
- one INTC credit numbered 1(*alpha*)80 or above
- one-half INTC credit numbered 2(*alpha*)90 or above

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

INTC 1F90

Foundations of Intercultural Studies

Today's world as understood from different cultural perspectives. Cultural similarities and differences, intercultural contact and communication, and preparation for international experience. Cultural themes in imaginative, historical and expository texts.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTC (INTL) 1P80 or INTL 1F90.

INTC 1P80

Introduction to Intercultural Studies

Practical and theoretical exploration of cultural similarities and differences focusing on their impact on intercultural contact and communication.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTC (INTL) 1F90 or 1P80.

INTC 1P95

Conquest and Colonization

(also offered as PORT 1P95 and SPAN 1P95) Creation of a new culture founded on Amerindian, Iberian and African traditions; visual arts, architecture, literature, utopian

ideals, alienation through imitation, rediscovery of autochthonous cultural models.

Lectures, 3 hours per week.

Note: given in English.

INTC 2P10

Latin American Culture Since Independence

(also offered as PORT 2P10 and SPAN 2P10) Social, political and cultural history of the Latin American nations through text and images. Topics include cultural hybridization and identity.

Lectures, seminar, 3 hours per week.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P10.

INTC 2P11

Iberian Culture

(also offered as PORT 2P11 and SPAN 2P11) Social, political and cultural history of Portugal and Spain through historical and literary texts, film and other visual arts.

Lectures, 3 hours per week.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P11.

INTC 2P12

Indian Philosophy: An Introduction to Hindu Thought

(also offered as PHIL 2P12)

Hindu thought beginning with the Vedic myths, through the Upanishads and the Bhagavad Gita to the systems of the Vedanta. Topics include Karma, reincarnation, altered states of consciousness, Maya, the problem of knowledge, the role and nature of God, the theory and practice of yoga.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P12.

INTC 2P13

Indian Philosophy: An Introduction to Buddhist Thought

(also offered as PHIL 2P13)

Buddhist thought from Prince Siddhartha's enlightenment and subsequent Deer Park Sermon (the basis of Hinayana) through the Perfection of Wisdom to Madhyamika Buddhism (the Mishayana representative) to Zen (the science of the Buddha). Topics include Nirvana, non-self, one-hand clapping.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P13.

INTC 2P17

Introduction to Chinese Philosophy

(also offered as PHIL 2P17)

Confucian, Taoist and Chinese Buddhist philosophical traditions examined in conjunction with appropriate texts.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P17.

INTC 2P27

Ancient Civilizations of Egypt and the Near East

(also offered as CLAS 2P27)

History and material culture of the civilizations of Egypt, Mesopotamia, Iran, Anatolia and Syro-Palestine from the origins of agriculture through the great Iron Age empires emphasizing the revolutionary social, political, economic and artistic achievements of Near Eastern cultures.

Lectures, seminar, 3 hours per week.

INTC 2P51

Literature of the British Empire

(also offered as ENGL 2P51)

Literature, both popular and canonical, which reflects the ongoing relationship between British imperialism, literary forms and cultural politics, from the 17th century to the present.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P51.

INTC 2P52

Postcolonial Literature

(also offered as ENGL 2P52)

Literatures of resistance and emergence written in English in former British territories, such as those in Africa and the West Indies.

Lectures, seminar, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P52.

INTC 2P53

Southern African Literatures of Transition

(also offered as ENGL 2P53)

Literary explorations of and interventions in the political and socio-cultural transitions from white regimes to majority-rule politics. Emphasis on histories of trauma, displacement and dispossession.

Lectures, seminars, 3 hours per week.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P53.

INTC 2P62

Africa to 1800

(also offered as HIST 2P62)

Sources available for the study of African history, historical geography, social, political and economic institutions, and the slave trade.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors, INTL and HIST minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P62.

INTC 2P63

Africa Since 1800

(also offered as HIST 2P63)

Abolition of the Atlantic slave trade, legitimate commerce, religious movements, European imperialism and African response, independence and post-independence politics and economy.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors, INTL and HIST minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P63.

INTC 2P72

Sociolinguistics

(also offered as LING 2P72)

Language in its social context: bilingualism and linguistic variation; social factors that interact with language; cultural implications of language learning and language behaviour.

Lectures, seminar, 3 hours per week.

Prerequisite: LING 1F94 or permission of the Undergraduate Co-ordinator, Applied Linguistics and Applied Linguistics/Teaching English as a Subsequent Language.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P72.

INTC 2P83

Cultural Anthropology of the Contemporary World

(also offered as SOCI 2P83)

Global issues emphasizing local struggles for environmental, economic and social justice.

Lectures, seminar, 3 hours per week.

Prerequisite: one of INTC (INTL) 1F90, SOCI 1F90 or 1P80.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P83.

INTC 2P90

Art in Revolution: The Rise of Modernism

(also offered as VISA 2P90)

Role and function of art within the paradigm shifts of the modern world; its relation to politics, social, cultural and technological change. Principal movements with origins in the French Revolution and the Industrial Revolution; Neoclassicism, Romanticism, Realism, Impressionism and Postimpressionism.

Lectures, seminar, 3 hours per week.

Prerequisite: INTC (INTL) 1F90, VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent), or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBL 2Q90.

INTC 2P93

Mass Media and Philosophy

(also offered as PHIL 2P93)

Different philosophical reactions to various types of mass media and computer-mediated communication that challenge the traditional concepts of "identity", "freedom" and "human nature", including critical theory (Adorno/Horkheimer), media theory (McLuhan), postmodernism (Baudrillard) and systems theory (Niklas Luhmann).

Lectures, seminar, 3 hours per week.

INTC 2P94

Theories and Models of Intercultural Relations

Alternative theories and models of intercultural contact and communication between individuals and groups.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P14.

INTC 2P96

Women and Development

(also offered as LABR 2P96, SOCI 2P96 and WISE 2P96)

Examination of the major social consequences of the theoretical paradigms of development (economic development, sustainable development and women/gender in development), theoretical material, practical

knowledge and debates on diverse experiences of women living in the non-industrial world using feminist perspectives.

Lectures, seminar, 3 hours per week.

Prerequisite: one of INTC (INTL) 1F90, LABR 1F90, WISE 1F90 or permission of the instructor.

INTC 2P97

Global Issues in Infectious Diseases

(also offered as CHSC 2P97)

World changes and their influence on emergence and re-emergence of infectious organisms; antimicrobials and drug resistance, immunizations, immuno-compromised host, nosocomial infections, food and water safety, infectious etiology of cancer and other chronic diseases, infection and tourism, bioterrorism.

Lectures, 3 hours per week.

Restriction: open to BMED, CHSC, CHLH, HLSC and PPTH majors until the date specified in Registration guide.

Prerequisite: INTC (INTL) 1F90 or CHSC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P97.

INTC 2P99

Canadian Women in a Global Context

(also offered as SOCI 2P99 and WISE 2P99)

Social, political, economic and cultural issues. Topics may include rights of Aboriginal women, reproductive rights and ethics, marginalization of immigrant women, activist movements, and the impact and inadequacy of government policy.

Lectures, seminar, 3 hours per week.

Prerequisite: WISE 2P90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P99.

INTC 2Q99

Women in World Literature

(also offered as ENGL 2Q99 and WISE 2Q99)

Feminist perspectives on representations of women and their writings, focusing on Western and/or world literature.

Prerequisite: INTC (INTL) 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99, WISE 1F90 or permission of the instructor.

INTC 3F94

International Field Course

(also offered as TREN 3F94)

Intensive field course in another country, in an area of study of environment interest. Restriction: permission of the instructor.

Note: consult the Tourism and Environment Department prior to registration. Students are

expected to pay their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3F94.

INTC 3P11

International Tourism

(also offered as TREN 3P11)

Changes in power relations, environment, society, culture and economy through the globalization of tourism. Human rights and inequality in international tourism.

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide. Students must hold a minimum of 8.0 overall credits.

Prerequisite: INTC (INTL) 1F90, TREN 1F90 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P11.

INTC 3P21

Global Conventions on Environment and Development

(also offered as TREN 3P21)

Attempts of the global community to set policy through processes such as the World Conservation Strategy, the Brundtland Commission, Agenda 21 and the Commission on Sustainable Development.

Lectures, seminar, workshop, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide. Students must hold a minimum of 8.0 overall credits.

Prerequisite: TREN 1F90 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P94 and INTL 3P21.

INTC 3P60

The World of Genghis Khan: Inner Asia since 500 BC

(also offered as HIST 3P60)

History of Mongolia, Tibet and Xinjiang. Political, economic, social and cultural topics. Emphasis on the nomadic encounter with the settled world (China, Russia), including the medieval nomadic invasions, the Great Game and nationalistic policies in the 20th century.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors, INTC, INTL and HIST minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: seminars will include films and primary sources (in translation). HIST 2P96 recommended.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P60.

INTC 3P62

Global Economic History, 1700-1980

(also offered as HIST 3P62)

Cotton, china and opium: development of the world economy in an age of industrial growth.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors, INTL and HIST minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P62.

INTC 3P70

International Field Course

(also offered as TREN 3P70)

Intensive field course in another country of relevance to Tourism and Environment.

Restriction: permission of the instructor.

Prerequisite: INTC (INTL) 1F90, TREN 1F90 or permission of the Chair.

Note: consult the Tourism and Environment Department prior to registration. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P70.

INTC 3P79

Nature, Development and the Politics of Knowledge

(also offered as GEOG 3P79)

Recent theories regarding the social construction of nature and their implications for refiguring the colonial and postcolonial history of development and for envisioning a more just world order. Analysis of the production of old and new knowledge of nature and of their translation into environmental and development policies.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of INTC (INTL) 2P52, GEOG 2P13, TREN 2P28, 3P19, 3P21, POLI 2F20, 2F30, SOCI 2P73, 2P85, WISE 2P96, HIST 2P99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P79.

INTC 3P80

Geography and International Development
(also offered as GEOG 3P80)

Analysis of international development theory, policy and practice. Development's relation to globalization, imperialism and neo-colonialism. Development solutions to environmental problems. Selected case studies from the developing world.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: INTC (INTL) 1F90, GEOG 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P80.

INTC 3P90

Text-based Research Project

Supervised individual text-based research in an area of intercultural studies not represented by other courses.

Restriction: permission of the Director.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P90.

INTC 3P91

International Field Research Project

Supervised individual data-collection or observational research in an area of intercultural studies.

Restriction: permission of the Director.

Note: may be undertaken while participating in one of the international exchange programs or an approved equivalent international academic experience.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P91.

INTC 3P92

Applications of Theories and Models in Intercultural Studies

Insights from intercultural studies as applied to intergroup collaboration, negotiation and conflict resolution in diverse settings.

Lectures, seminar, 3 hours per week.

Prerequisite: INTC (INTL) 1F90, 2P94 or permission of the instructor.

Completion of this course will replace previously assigned grade and credit obtained in INTL 3P14.

INTC 3P94

Gandhi and Non-Violence

(also offered as PHIL 3P94)

Gandhi as an original philosopher contributing to contemporary ontology. Implications of his thought for applied philosophy of personal,

social and international reform, especially in light of its encounters with the forces of violence. Universal relevance of his thought to our technological times, and the relation between his ideas and the Indian tradition.

Lectures, seminar, 3 hours per week.

Prerequisite: one INTC (INTL) course, PHIL 2P12, 2P13 or permission of the instructor.

Completion of this course will replace previously assigned grade and credit obtained in INTC (PHIL) 3P10.

INTC 3P95

Taoism

(also offered as PHIL 3P95)

Taoist philosophy of the classical period focusing on the *Lao Tzu (Tao Te Ching)* and the *Chuang Tzu*.

Seminar, 3 hours per week.

Prerequisite: one INTC, INTL or PHIL credit, PHIL 2P17 or permission of the instructor.

INTC 4P11

Cross-Cultural Perspectives of Tourism and Environment

(also offered as TREN 4P11)

Cultural differences in philosophy and approaches to the natural and social environments, tourism resources, natural resources, environmental policies and management.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors, INTL minors with a minimum of 12.0 overall credits or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 4P11.

INTC 4P50

Themes in Intercultural Studies

(also offered as TREN 4P50)

Seminar discussion and development of individual research papers on an intercultural studies theme as reflected in each student's major area.

Seminar, 3 hours per week.

Restriction: students must have a minimum of 12.0 overall credits.

Prerequisite: INTC (INTL) 1F90 or permission of the Director.

Completion of this course will replace previously assigned grade in INTL (TREN) 4P21.

INTERNSHIP COURSE

INTC 3N01

Internship in Intercultural Studies

Volunteer non-credit internship in an intercultural setting within Ontario.

Restriction: permission of the Director.

Note: offered through the Co-operative Programs Office.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3N01.

International Political Economy

This program is offered through the Departments of Economics and Political Science

Co-ordinators

Robert Dimand, Department of Economics
Dan Madar, Department of Political Science

General Information

Administrative Assistant

Karen Phillips

905-688-5550, extension 4697
Plaza 427

Administrative Assistant

Dorothy Krynicki

905-688-5550, extension 3476
Plaza 328

The Honours BA in International Political Economy offers students an opportunity to combine studies in Economics and Political Science to develop an understanding of the forces of globalization and their consequences.

The study of political economy explores, from diverse perspectives, the interplay of economic forces with political processes and institutions, and in particular, the relationship between states and markets. Many of the most significant questions of political economy are becoming international in scope because of three interrelated phenomena: production, finance and trade increasingly transcend the traditional jurisdictions of nation states; the effects of economic globalization have been intensified by developments in communications technologies and cultural processes; in these contexts, fundamental political questions of (re)distribution and power are becoming internationalized, and international forces increasingly rival domestic ones as influences on state policy.

Program Notes

1. ECON 3P91 or 3Q91; ECON 4P13 and 4P14 are recommended for those intending to proceed to graduate studies in Economics.
2. One of POLI 4P20, 4P22, 4P26, 4P27, 4P95 strongly recommended.
3. WRIT 1P93 is recommended.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- ECON 1P91 and 1P92
- MATH 1P05 or 1P97
- MATH 1P98
- POLI 1F90
- one Humanities context credit (HIST 1F95 recommended)
- one Sciences context credit

Year 2

- ECON 2P21, 2P22, 2P30 and 2P90
- POLI 2F20 and 2P91
- POLI 2P92 or 2P93
- one elective credit (see program note 3)

Year 3

- ECON 3P13, 3P21, 3P22 and 3P90
- POLI 3P21 and 3P26
- one credit from POLI 2P94, 2P97, 3P28, 3P33 (recommended), 3P43, 3P44, 3P45
- one elective credit

Year 4

- ECON 3P93 and 3P94
- POLI 4P21
- one ECON credit numbered 2(alpha)99 or above (see program note 1)
- one and one-half POLI credits numbered 3(alpha)99 or above (see program note 2)
- one elective credit

Description of Courses

See relevant calendar entry for course descriptions.

International Study and Exchange Programs

Brock encourages its students to participate in study programs at universities in other countries. The overall objective of these programs is to promote international understanding and co-operation at the University, while the specific objective is to assist students in all disciplines to broaden their education by earning full university credits and by living in another culture. Brock has programs, both in English speaking and non-English speaking countries. These programs are administered by the Office of International Services and by specific academic departments/centres. As well, some departments/centres offer summer courses abroad.

Through Brock's programs, students can become international scholars for little more than it costs to study at Brock. All exchange students pay their tuition fees to Brock, as well as residence fees for certain exchange programs. Brock provides a travel award of, minimum \$1,000 to students registered full-time for two academic terms or more in an approved Student International mobility program. Students registered for one academic term in an approved Student International Mobility program will receive minimum financial support in the amount of \$500 as a travel award. Brock students have access to OSAP and Canada Student Loan plans, and may apply for Brock University Exchange Program and Study Abroad Program Bursaries to help them pay for their year abroad while they earn credits towards the completion of their degree at Brock.

Participants must normally apply as full-time students during their second year of study, have a minimum B average and meet the pertinent language and other academic requirements. Though some of Brock's exchange partner institutions have a different nominal credit weight for a year of study, a Brock student who is enrolled on exchange as a full-time student in a degree program at an international partner institution will be granted the full complement of 5.0 Brock credits for a year abroad, or 2.5 credits for a semester abroad. Course selection for exchange programs must be done well in advance of departure, in consultation with the Office of International Services or the relevant academic department/centre administering the exchange.

Since German and Japanese study abroad programs require a minimum level of language competence, students are strongly advised to have introductory high school background in these languages or obtain introductory language credits upon entering Brock.

Students interested in taking part in international programs should consider enrolling in the Minor in International Studies, which may be combined with a Major program of the student's choice.

An updated list of exchange opportunities, and details about the exchanges can be found at: www.brocku.ca/international/

One year (2 academic terms) or 1 academic term Student International Mobility programs administered by the Office of International Services.

FOB denotes only Faculty of Business students may participate. For more information on the Faculty of Business exchange programs, please consult <http://www.bus.brocku.ca/exchange>

Argentina

- International Student Exchange Program (<http://www.issep.org>)

Australia

- Curtin University of Technology
- Griffith University
- University of Canberra

Austria

- IMC FH KREMS University of Applied Sciences (FoB)
- Innsbruck School of Management (FoB)
- International Student Exchange Program (<http://www.issep.org>)

Belgium

- Katholieke Universiteit Leuven (FoB)

Brazil

- University of São Paulo (FoB)
- International Student Exchange Program (<http://www.issep.org>)

Chile

- International Student Exchange Program (<http://www.issep.org>)

China

- City University of Hong Kong
- Shanghai University (FoB)
- Central University of Finance and Economics MBA Education

Czech Republic

- International Student Exchange Program (<http://www.issep.org>)

Denmark

- Copenhagen Business School (FoB)
- International Student Exchange Program (<http://www.issep.org>)

Finland

- International Student Exchange Program (<http://www.issep.org>)

France

- Burgundy School of Business (FoB)
- Etablissement National d'Enseignement Supérieur Agronomique de Dijon (CCOVI)
- Groupe ESC de Rouen (FoB)
- Université Paris Dauphine IX (FoB)
- International Student Exchange Program (<http://www.issep.org>)

Germany

- Ontario/Baden-Württemberg Student Exchange Program (<http://www.yorku.ca/ontbw/>)
- European Business School (FoB)
- Reutlingen University (FoB)
- Mannheim University, Munich School of Business

Ghana

- University of Ghana, Legon

India

- Indian Institute of Foreign Trade (FoB)
- Ontario-Maharashtra-Goa Student Exchange Program (<http://omgprogram.org>)

Italy

- Università degli Studi di Udine (CCOVI)
- International Student Exchange Program (<http://www.issep.org>)

Japan

- Nagoya Gakuin University
- International Student Exchange Program (<http://www.issep.org>)

Korea, Republic of

- Yonsei University

Mexico

- Instituto Tecnológico Autónoma de México (FoB)
- Consortium for North American Higher Education Collaboration Student Exchange Program (<http://conahec.org>)

Netherlands

- Universiteit Maastricht
- Maastricht University (FoB)
- International Student Exchange Program (<http://www.isep.org>)

New Zealand

- Lincoln University
- University of Otago

Nicaragua

- International Student Exchange Program (<http://www.isep.org>)

Poland

- Leon Kozminski Academy of Entrepreneurship & Management (FoB)
- International Student Exchange Program (<http://www.isep.org>)

Spain

- ESIC Business & Marketing School (FoB)
- International Student Exchange Program (<http://www.isep.org>)

Sweden

- Karlstad University
- Halmstad University (FoB)
- University of Gothenberg
- Växjö University

Switzerland

- International Student Exchange Program (<http://www.isep.org>)

Turkey

- Istanbul Bilgi University (FoB)
- Marmara University (FoB)

United Kingdom

- Aston Business School (FoB)
- Glasgow Caledonian University
- Keele University
- Leeds Metropolitan University
- University of Surrey (FoB)
- University of Wales, Swansea

U.S.A

- International Student Exchange Program is a student exchange with a consortium of 110 American Universities
- University of North Carolina at Greensboro
- University at Buffalo, SUNY

Uruguay

- International Student Exchange Program (<http://www.isep.org>)

Brock courses offered at international locations:

For detailed information, please consult the appropriate department/centre as courses are not always offered on a yearly basis.

China

EDUC 9F67
English as a Second Language/English Language Development I

EDUC 9F68
English as a Second Language/English Language Development II

EDUC 9F69
English as a Second Language/English Language Development III

Croatia/Variou Locations

International Field Course

TREN 3P70
Tourism In Croatia

Cuba/Variou Locations

EDUC 4P36/5P96
Global Education: International Field Experience

England

GEOG 3F90
London - Field Course

GEOG 3F92
London-Paris Field Course

Greece/Cyprus/ Various Locations

CLAS 3M20-3M29
Study in Mediterranean Lands
(also offered as VISA 3M20-3M29)

CLAS 3F75
Archaeological Practicum in Mediterranean Lands

CLAS 4V80-4V89
Advanced Archaeological Fieldwork and Directed Research

Honduras

CHSC 3F97
International Health Field Course

Italy

ITAL 2F99
Reading the Italian City
(also offered as VISA 2F99)

Latin America

SPAN 2V90-2V99
Culture in Spanish-Speaking Regions

Country location will vary from year to year.

New Zealand/Variou Locations

TREN 3F95
Ecological Regions and Tourism Destinations

South Africa/Variou Locations

EDUC 8L08-9
Teacher Education Practicum in Schools (3 weeks)

Variou Country Locations

TREN 3P71
VISA 3M05-3M10

International Experiential Learning:

Solidarity Experiences Abroad
Please contact Campus Ministries or Office of International Services.

Students for Development Program
Please contact Brock International.

Italian

This program is offered through the Department of Modern Languages, Literatures and Cultures

Chair

Leslie A. Boldt

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General Information

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The Department aims to provide students with a thorough and comprehensive knowledge of spoken and written Italian, its literature and culture. In addition to the courses taught in the language, the Italian Program provides courses in Cinema, Culture, Art and Architecture taught in English. As well, the Department offers a series of courses taught in English that may be acceptable for credit toward a degree. Students are encouraged to participate in one or more of the study programs in Italy.

Summer Studies in Italy

The Italian section of the Department of Modern Languages, Literatures and Cultures offers three summer courses in Italy: ITAL 1F00 Introductory Italian, ITAL 2F99 Reading the Italian City (offered in conjunction with the Department of Visual Arts), and ITAL 3M21 Monumental Rome: From Romulus to the Renaissance (offered in conjunction with the Department of Classics). Contact the Department for information and registration.

Students wishing to study in Italy through other universities may do so in consultation with the Department.

Program Notes

1. Students with two or more years of high school Italian or a previous university Italian credit take ITAL 1F90 and may not take ITAL 1F00 or 1F01 without permission of the Department. Permission is granted only in the most exceptional cases.

2. Students with one grade 10 Italian credit take ITAL 1F01.

3. Students with no high school credits in the language take ITAL 1F00.

4. ITAL 1F00 and 1F01 are introductory language courses. Students who register in these courses must submit an official high school transcript to the instructor as proof of their level of competence in order to receive Departmental confirmation of registration before the end of the second week of classes. Failure to do so will result in de-registration from the course.

5. Unless otherwise noted in the course description, courses numbered 2(alpha)00 or above are taught in Italian while courses numbered 1F90 and below are taught in Italian to the extent possible.

6. ITAL 1F00 and 1F01 may be taken for degree credit, but cannot be used to meet requirements for major programs in Italian. However, either of these courses may be included in a minor program in Italian.

7. ITAL 1F00, 1F01, 1F90 and 2F00 constitute a sequence. Once credit has been obtained in one of these courses, students are not allowed to take for credit a course in the same language with a lower number in the sequence. Students may not take two courses at different levels in the sequence during the same term. This regulation also applies to courses taken at other institutions.

8. Departmental courses noted as given in English may be included in major programs. Single Pass programs may include no more than one and one-half credits in such courses; combined Pass programs may include no more than one credit in such courses. Combined Honours programs may include no more than one and one-half credits in such courses. If both combined Honours programs are chosen, from French, Italian or Spanish, one and one-half credits in each language is allowed.

9. A minor program may include no more than one-half ITAL credit given in English.

10. The Department reserves the right to refuse admission to and/or credit for any of its language courses to a student who has, in the view of the Department, a level of competence unsuited to that course.

11. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree

programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Pass Program

Year 1

- ITAL 1F90 (see program note 1)
- one Sciences context credit
- one Social Sciences context credit
- two elective credits

Year 2

- ITAL 2F00
- two ITAL or MLLC credits numbered 2(alpha)00 or above (see program note 7)
- two elective credits

Year 3

- Three ITAL or MLLC credits numbered 2(alpha)90 and above (see program note 7)
- two elective credits

Combined Major Program

Students may take a combined major in Italian and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

Year 1

- ITAL 1F90 (see program note 1)
- one credit from the co-major discipline
- one Sciences context credit
- one Social Sciences context credit
- one elective credit

Year 2

- ITAL 2F00
- one ITAL or MLLC credit numbered 2(alpha)00 or above (see program note 7)
- two credits from the co-major discipline
- one elective credit

Year 3

- ITAL 2P90
- two ITAL or MLLC credits numbered 2(alpha)90 or above (see program note 7)
- two credits from the co-major discipline
- one-half elective credit

Year 4

- ITAL 3F93, 3P94, 3P99 and 4P04
- two credits from the co-major discipline
- one-half elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Minor in Italian

Students in other disciplines may obtain a Minor in Italian within their degree program by completing the following courses with a minimum 60 percent overall average:

- ITAL 1F90 and 2F00
- one ITAL credit (see program notes 5 and 8)
- one ITAL literature and/or culture credit numbered 2(*alpha*)00 or above (see program note 8)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ITAL 1F00

Introductory Italian

Beginner's course for students with no background in Italian. Acquisition of reading and oral skills, basic grammar; conversation and composition.

Lectures, 3 hours per week.

Note: students who have taken a previous Italian course in high school or have some knowledge of Italian will not be permitted to take this course.

Completion of this course will replace previous assigned grade and credit obtained in ITAL

1F01.

ITAL 1F01

Basic Italian Language

Elementary-level Italian language course for students with some background in Italian. Acquisition of reading and oral skills, basic grammar; composition and conversation.

Lectures, 3 hours per week.

Note: for students who have one grade 10 Italian credit or have some knowledge of Italian. Students with two or more years of high school Italian (or equivalent) must take ITAL 1F90.

Completion of this course will replace previous assigned grade and credit obtained in ITAL 1F00.

ITAL 1F90

Intermediate Italian

Review of basic grammar; composition and oral practice. Discussions based on cultural topics, cities and the art of Italy.

Lectures, tutorial, 4 hours per week.

Prerequisite: one of ITAL 1F00, 1F01, two or more years of high school Italian or permission of the instructor.

ITAL 1P95

Italian Culture and Civilization

Artistic heritage of Italy and the intellectual, political and social forces that have shaped the mentality and way of life of the Italians. Selected texts and multi-media material.

Lectures, 3 hours per week.

Note: given in English.

ITAL 2F00

Language, Literature and Culture

Grammar review; oral and written practice. Introduction to the study of film, literary texts and principles of criticism.

Lectures, 3 hours per week.

Prerequisite: ITAL 1F90 or permission of the instructor.

ITAL 2F99

Reading the Italian City

(also offered as VISA 2F99)

Exploring key monuments, churches, museums and urban sites culminating with the Venice Biennale. Concept of the city as expressed through art, literature and architecture from Medieval to Post-modern times. Historical and geographical influences and factors in shaping the city, its culture and traditions, from fine arts to culinary arts and oenology. Cities may include Rome, Orvieto, Assisi, Siena, Florence and Venice.

Restriction: permission of the Department.

Prerequisites: two ITAL or VISA credits.

Note: offered in Italy. Given in English. Open to students whose interests include either art history or studio. Additionally, Italian majors will receive language instruction and will

complete assignments in Italian. Students are expected to pay their own expenses.

ITAL 2P85

Italians in Canada and Italy-Canada Relations
History of Italian immigration in Canada, focusing on Ontario. Italian-Canadian literature including such writers as Nino Ricci and Mary Di Michele. Cultural and economic relations between Italy and Canada.

Lectures, 3 hours per week.

Note: given in English.

ITAL 2P90

Translation and Language Practice

Translation of selected material from magazine articles, essays and various texts focusing on interference between English and Italian. Introduction to business correspondence.

Lectures, 3 hours per week.

Prerequisite: ITAL 1F90 or permission of the instructor.

ITAL 2P92

Early to High Renaissance Art and Architecture

(also offered as VISA 2P92 and MARS 2P92)
Major monuments, buildings and art works of the period from several critical perspectives including the humanist influence on the arts in Florence and Rome, the issue of patronage and the question of the artist's cultural status.

Lectures, seminar, 3 hours per week.

Prerequisite: one of ITAL 1F90, MARS 1F90, VISA 1Q98 and 1Q99 or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in ITAL (VISA) 2P40.

ITAL 2P94

Linguistic and Cultural Regionalism in Italy
Cultural, socio-political and economic issues and conditions that characterize the regions of Italy. Emphasis on regional linguistic variants and dialects, and the establishment of a linguistic standard.

Lectures, 3 hours per week.

Co-requisite: ITAL 2F00 or permission of the instructor.

ITAL 3F93

Dante, Petrarch and Boccaccio

Major works of three of Italy's greatest writers. Selections from Dante Alighieri's *La Divina Commedia*, Francesco Petrarca's *Il Canzoniere* and Giovanni Boccaccio's *Decameron*.

Lectures, 3 hours per week.

Prerequisite: ITAL 2F00 or permission of the instructor.

ITAL 3M20-3M24

Special Topics in Italian

Special topic in an area not represented by other courses.

ITAL 3P90

Literature of the 19th and 20th Centuries

Literary and cultural movements of the mid-19th and early 20th centuries; socio-cultural issues in pre- and post-Unification Italy. Authors may include Manzoni, Foscolo, Leopardi, Verga and Pirandello.

Lectures, 3 hours per week.

Prerequisite: ITAL 2F00 or permission of the instructor.

ITAL 3P94

The Modern Novel

Representative novels from leading modern and contemporary writers, such as Pirandello, Tabucchi, Duranti, Calvino, Sciascia, Banti, Ginsburg.

Lectures, seminar, 4 hours per week.

Prerequisite: ITAL 2F00 or permission of the instructor.

ITAL 3P96

Visuality in the Italian Lyric

Selected Italian poetry from the 15th to the 20th century, emphasizing the construction of visual images. Intersections of poetic texts with artworks from Renaissance and Baroque art to Metaphysical painting and Futurism.

Lectures, seminar, 4 hours per week.

Prerequisite: ITAL 2F00 or permission of the instructor.

ITAL 3P97

Italian for Teachers

Approaches to the teaching of Italian as a second language. Teaching methods, educational materials and multi-media resources.

Lectures, 3 hours per week.

Prerequisites: ITAL 2F00 and one ITAL credit numbered 2(alpha)00 or above or permission of the instructor.

Note: offered under the auspices of the Italian Ministry of Foreign Affairs, through the Dante Alighieri Society, Niagara Region. Lectures by guest speakers.

ITAL 3P99

Advanced Grammar and Composition

Principles of syntactical analysis and elements of style; study of figurative language and compositions on literary and non-literary topics.

Lectures, 3 hours per week.

Prerequisite: ITAL 2F00 or permission of the instructor.

ITAL 4P04

Translation: Applications

Lexical, morphological, syntactic and semantic interrelationships between source text and target text; application of translation methodologies to a variety of texts.

Lectures, 3 hours per week.

Prerequisite: ITAL 2F00 or permission of the instructor.

ITAL 4P97

Strategies in the Teaching of Language, Literature, and Culture

Recent theories and developments in the teaching of language and culture, including literary texts, music, artistic works and monuments.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: 3.0 ITAL credits or teaching experience.

Note: offered under the auspices of the Ministry of Foreign Affairs, Italy, through the Dante Alighieri Society, Niagara Region.

Kinesiology

This program is offered through the Department of Physical Education and Kinesiology

Chair
Panagiota Klentrou

Undergraduate Program Co-ordinator
Katrina Bennie

General Information

Administrative Assistant
Debbie Crossthwaite

905-688-5550, extension 4957
Walker Complex 296
<http://www.fahs.brocku.ca/pekn/>

The Department of Physical Education and Kinesiology offers a 20 credit Bachelor of Kinesiology (BKin) degree which is accredited through the Canadian Council of Physical Education and Kinesiology Administrators. It also offers a 20-credit Bachelor of Science in Kinesiology (BSc (Kin) degree.

The requirement for graduation with a BKin or BSc (Kin) (Honours) is a minimum 70 percent major average, a minimum 60 percent non-major average and a minimum 60 percent overall average. The requirement for graduation with a BKin or BSc (Kin) degree is a minimum 60 percent major average and a minimum 60 percent overall average.

New applications to the BKin and BSc (Kin) programs are accepted in years 2 and 3. Application forms are available in the Physical Education and Kinesiology office from April 1. Forms must be completed and returned to the office by May 15th. These are limited enrolment programs. Admission is not guaranteed by attainment of the minimum requirements.

The BKin degree focuses on the biophysical, behavioural and socio-cultural aspects of kinesiology and is based on a science practice model that prepares students for selected certification in the allied health professions. The curriculum emphasizes bioscience courses, the development of research skills, and the application of theoretical knowledge in laboratory settings.

The BSc (Kin) degree focuses on the biophysical aspects of kinesiology and prepares students for careers in various health professions. This bioscience degree is designed for students who wish to concentrate on the science of human movement and/or postgraduate degree programs in biophysical kinesiology and the allied health professions.

Program Notes

1. Students wishing to proceed to year 2 as a BKin major must have achieved a minimum 65 percent major average, a minimum of 65 percent in PEKN 1P90, 1P93, a minimum 60 percent non-major average and a minimum 60 percent overall average. Students wishing to proceed to year 2 as BSc(Kin) major must have achieved a minimum 65 percent overall average. Students wishing to proceed to year 3 and 4 as either a BKin or BSc(Kin) major must have achieved a minimum 60 percent major average, a minimum 60 percent non-major average and a minimum of 60 percent overall average.
2. BKin or BSc (Kin) majors must take a minimum of one elective credit outside the Department of Physical Education and Kinesiology.
3. BSc (Kin) majors must take a minimum of 2.0 elective science credits.
4. BKin or BSc (Kin) majors are strongly advised to take an emergency First Aid/CPR course.
5. The following courses are available for Science credit: PEKN 1P90, 2P04, 2P05, 2P09, 2P97, 3P10, 3P90, 3P94, 4P08, 4P10, 4P94, 4P96, 4P97, 4P98.
6. The following courses are not available for Science credit: ASTR 1P01, 1P02, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, PHYS 1P21, 1P22, SCIE 1P50, 1P51.
7. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Bachelor of Kinesiology Program

Year 1

- PEKN 1P90 and 1P93
- BIOL 1F90
- one Humanities context credit
- one Social Sciences context credit
- one elective credit

Year 2

- PEKN 2P05, 2P08, 2P09, 2P84, 2P95 and 2P97
- CHSC 2F95
- one elective credit

Year 3

- PEKN 2P91, 3P02, 3P05, 3P08, 3P10, 3P90 and 3P94
- one-half PEKN credit numbered 3(alpha)90 and above
- one elective credit

Year 4

- PEKN 4P10 and 4P71
- one and one-half PEKN credits numbered 3(alpha)90 or above
- two and one-half elective credits (see program note 2)

Bachelor of Science in Kinesiology Program

Year 1

- PEKN 1P90 and 1P93
- BIOL 1F90
- MATH 1P97
- PHYS 1P91
- PSYC 1F90
- one Humanities context credit

Year 2

- PEKN 2P05, 2P08, 2P09, 2P84, 2P85 and 2P97
- CHSC 2F95
- one Science elective credit (see program notes 3, 5 and 6)

Year 3

- PEKN 2P70, 2P92, 3P05, 3P08, 3P10, 3P90 and 3P94
- one of PEKN 2P44, 3P13, 3P52

- one-half Science elective credit (see program notes 3, 5 and 6)
- one-half elective credit numbered 2(*alpha*)00 or above

Year 4

- PEKN 4P10 and 4P71
- one credit from PEKN 4P08, 4P94, 4P96, 4P97, 4P98
- one of PEKN 3P02 or 3P91
- one-half Science elective credit (see program notes 3, 5 and 6)
- one elective credit
- one elective credit numbered 2(*alpha*)00 or above

Description of Courses

See relevant calendar entry for course descriptions.

Labour Studies

Director

Jonah Butovsky, Department of Sociology

Assistant Professor

Larry Savage

Participating Faculty

Jeffrey Boggs, (Geography), Jonah Butovsky (Sociology), June Corman, (Sociology), Ann D. Duffy (Sociology), Tami Friedman (History), Dan Glenday (Sociology), Heather Lee Kilty (Nursing), Felice Martinello (Economics), Carmela Patrias (History), Daniel Samson (History), Murray Smith (Sociology), Dennis Soron (Sociology), Garth Stevenson (Political Science)

Co-ordinator of Collaborative Programs

Jo Stewart

General Information

Administrative Assistant

Barb Alexander

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Mackenzie Chown D411

<http://www.brocku.ca/labourstudies/>

Our work determines how we spend many of our waking hours and it largely defines our position in society, our economic well-being and our self-image. It also defines the nature of our society and economy, since these are determined by the work efforts of individuals. Restructuring of the labour force, technological change, de-skilling, re-skilling, changing labour legislation, labour market segmentation, women's work and equality in the workplace are some of the issues that stimulate teaching and research in the Centre for Labour Studies.

Given the complex and multifaceted nature of work, Labour Studies adopts a multi disciplinary approach to its study. Labour Studies is a combined major program leading to a Pass BA degree. The program provides a social science perspective on the study of work with the participation of the departments of Economics, History, Political Science and Sociology. Students may earn a Concentration in Labour Studies by including Labour Studies and other approved courses, as part of their academic work leading to an Honours BA in Economics, Political Science or Sociology.

Labour Studies-George Brown College

This program involves courses offered through Brock and George Brown College of Applied

Arts and Technology. This four-year program combines courses and training in applied labour studies settings at George Brown College with a degree in Labour Studies and Economics, History, Political Science or Sociology at Brock. The program caters to individuals who wish to have a career in a wide variety of areas including unionized environments, occupational health and safety, politics, or human resources. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and two certificates from George Brown College 1) a certificate in Contemporary Labour Perspectives from the George Brown School of Labour, and 2) a Post-Graduate Certificate in Human Resources Management. Gaining both a degree and these certificates would ordinarily involve attending college after gaining a university degree, but the Brock and George Brown program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the George Brown Labour Studies program are available from the Office of the Dean of Social Sciences.

Labour Studies-Mohawk College

This program involves courses offered through Brock University and Mohawk College of Applied Arts and Technology. This four-year program combines training in a variety of applied labour studies settings at Mohawk College with an honours degree in Labour Studies and Economics, History, Political Science or Sociology at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in various aspects of labour studies. The program leads to career opportunities in a wide variety of areas including unionized environments, occupational health and safety, politics, and human resources. Obtaining both an honours degree and a college certificate would ordinarily involve at least five years of study, but this Brock-Mohawk program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the

Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Mohawk Labour Studies program are available from the Office of the Dean of Social Sciences.

Program Notes

1. At least one-half LABR credit must be from outside the student's disciplinary co-major.
2. WRIT 1P93 is recommended.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Students wishing to major in Labour Studies must declare a combined major with either Economics, History, Political Science or Sociology.

Labour Studies and Economics

Consult the Economics entry for a listing of program requirements.

Labour Studies and History

Consult the History entry for a listing of program requirements.

Labour Studies and Political Science

Year 1

- LABR 1F90
- one POLI credit numbered 1(alpha)90 to 1(alpha)99
- ECON 1P91 and 1P92 or SOCI 1F90
- one Humanities context credit

- one Science context credit

Year 2

- LABR 2P03 and 2P06
- one LABR credit
- POLI 2F12 and 2P80
- one of POLI 2P91, 2P92, 2P93
- one elective credit

Year 3

- LABR 3P03, 3P06, 3P13 and 3P33
- one-half LABR credit
- one-half POLI credit from political theory list
- one POLI credit numbered 2(alpha)90 or above
- POLI 3P91
- one-half elective credit

Year 4

- One LABR credit
- one LABR credit numbered 3(alpha)90 or above
- one-half POLI credit numbered 2(alpha)00 or above
- one and one-half POLI credits numbered 3(alpha)90 or above
- one elective credit (see program note 1)

Labour Studies and Sociology

Year 1

- LABR 1F90
- SOCI 1F90
- ECON 1P91 and 1P92, or one POLI credit numbered 1(alpha)90 to 1(alpha)99
- one Humanities context credit
- one Science context credit

Year 2

- LABR 2P03 and 2P06
- LABR 2P32 or 2P34
- one-half LABR credit
- SOCI 2P11 and 2P13
- one SOCI credit
- one elective credit

Year 3

- LABR 3P03 and 3P06
- one-half LABR credit
- one-half LABR credit 2(alpha)90 or above
- SOCI 3P00 and 3P01
- one-half SOCI credit
- one-half SOCI credit numbered 2(alpha)90 or above
- one elective credit

Year 4

- One LABR credit
- one LABR credit numbered 3(alpha)90 or above
- two SOCI credits numbered 3(alpha)90 or above
- one elective credit (see program note 1)

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Certificate in Labour Studies Program

The Centre for Labour Studies offers a Certificate in Labour Studies designed for persons who already have a degree or do not wish to pursue a degree. The program consists of required courses with core concepts in Labour Studies and electives, where students cover Labour Studies topics in more detail. The admission requirements are the same as for the degree program.

The certificate in Labour Studies is awarded upon completion of the following courses with a minimum 60 percent overall average:

- LABR 1F90, 2P03 and 2P06
- two credits from LABR 2P02, 2P15, 2P32, 2P34, 2P54, 2P71, 2P73, 2Q98, 2P99, 3P03, 3P06, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P47, 3P66, 3Q95, CHSC 3P40
- one credit from ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90

See "Certificate Requirements" under Academic Regulations.

Concentration in Labour Studies

Students may earn a Concentration in Labour Studies by successfully completing the following courses as part of their academic work leading to a BA (Honours) in Economics, History, Political Science or Sociology:

- LABR 1F90, 2P03, 2P06, 3P03 and 3P06
- two credits from LABR 2P02, 2P15, 2P32, 2P34, 2P54, 2P71, 2P73, 2P80, 2Q98, 2P99, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P47, 3P66, 3Q95, 3V95-3V99, 4P15, 4P32, 4P54, CHSC 3P40
- one credit from ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90

Minor Program

Students may complete a Minor in Labour Studies by successfully completing the following courses as part of their academic work:

- LABR 1F90, 2P03 and 2P06
- LABR 3P03 or 3P06
- one and one-half credits from LABR 2P02, 2P15, 2P32, 2P34, 2P54, 2P71, 2P73, 2P80, 2Q98, 2P99, 3P03, 3P06, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P47, 3P66, 3P95, 3P98, 3P99, 4P15, 4P32, 4P54, CHSC 3P40

Brock/Colleges Articulation Agreement

Labour Studies and Economics

George Brown College

Year 1

- LABR 1F90
- ECON 1P91 and 1P92
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit

Year 2

- LABR 2P03, 2P06 and 2P15
- ECON 2P21, 2P22, 2P30, 2P90, 3P21 and 3P22
- one-half non-business elective credit

Year 3

- taken at George Brown College

Year 4

- LABR 3P24 and 3P25
- one LABR credit
- one LABR credit numbered 3(alpha)90 or above
- ECON 3P90, 3Q91, 4P13 and 4P14

Mohawk College

Year 1

- LABR 1F90
- ECON 1P91 and 1P92
- one of MATH 1P01, 1P05, 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit

Years 2-4

Students take courses that are required by Mohawk College concurrently with the following list:

- LABR 2P03, 2P06, 2P15, 3P24 and 3P25
- one LABR credit
- one LABR credit numbered 3(alpha)90 or above
- ECON 2P21, 2P22, 2P30, 2P90, 3P21, 3P22, 3P90, 3Q91, 4P13 and 4P14
- one-half elective credit (see program note 3)

Labour Studies and History

George Brown College

Year 1

- LABR 1F90
- one of HIST 1F95, 1F96, HIST 1P98 and 1P99
- one of ECON 1P91 and 1P92), one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90
- one language credit (see language requirement)
- one Science context credit

Year 2

- LABR 2P03 and 2P06
- LABR 3P03 or 3P06
- one-half LABR credit
- two HIST credits numbered 2(alpha)00 or above (see program note 3)
- one HIST credit numbered 3(alpha)00 or above

Year 3

- taken at George Brown College

Year 4

- LABR 3P03 or 3P06 (not taken in Year 2)
- one LABR credit
- one LABR credit numbered 3(alpha)90 or above
- two HIST credits numbered 3(alpha)90 or above

Mohawk College

Year 1

- One credit from HIST 1F95, 1F96, HIST 1P98 and 1P99
- LABR 1F90
- one of ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90
- one language credit other than English (see language requirement)
- one Science context credit

Years 2-4

•Students take courses that are required by Mohawk College concurrently with the following list:

- LABR 2P03 and 2P06
- LABR 3P03 or 3P06
- two LABR credits (see program note 3)
- one LABR credit numbered 3(alpha)90 or above
- two and one-half HIST credits numbered

2(alpha)00 or above (see program note 3)

- one HIST credit numbered 3(alpha)00 or above
- two HIST credits numbered 3(alpha)90 or above

Labour Studies and Political Science

George Brown College

Year 1

- LABR 1F90
- one POLI credit numbered 1(alpha)50 to 1(alpha)99
- ECON 1P91 and ECON 1P92, or SOCI 1F90
- one Humanities context credit
- one Science context credit

Year 2

- LABR 2P03, 2P06 and 3P33
- LABR 3P03 or 3P06
- POLI 2F12 and 2P80
- one of POLI 2P91, 2P92 or 2P93
- one-half POLI credit numbered 2(alpha)00 or above
- one-half additional credit from political theory list

Year 3

- taken at George Brown College

Year 4

- LABR 3P03 or 3P06 (not taken in Year 1)
- LABR 3P13
- one-half LABR credit
- one LABR credit numbered 3(alpha)90 or above
- POLI 3P91 or 3P92
- one-half POLI credit numbered 2(alpha)90 or above (see program note 3)
- one and one-half POLI credit numbered 3(alpha)90 or above

Mohawk College

Year 1

- LABR 1F90
- one POLI credit numbered 1(alpha)90 to 1(alpha)99
- ECON 1P91 and ECON 1P92, or SOCI 1F90
- one Humanities context credit
- one Science context credit

Years 2-4

Students take courses that are required by Mohawk College concurrently with the following list:

- LABR 2P03, 2P06, 3P03, 3P06, 3P13 and 3P33
- one-half LABR credit
- one LABR credit numbered 3(alpha)90 or

above

- POLI 2F12 and 2P80
- one of POLI 2P91, 2P92, 2P93
- one-half POLI credit numbered 2(alpha)00 or above
- one-half POLI credit numbered 2(alpha)90 or above
- two POLI credits numbered 3(alpha)90 or above
- one-half elective credit

Labour Studies and Sociology

George Brown College

Year 1

- LABR 1F90
- ECON 1P91 and 1P92, or one POLI credit numbered 1(alpha)50 to 1(alpha)99
- SOCI 1F90
- one Humanities context credit
- one Science context credit

Year 2

- LABR 2P03, 2P06, 3P03 and 3P06
- LABR 2P32 or 2P34
- one-half LABR credit
- SOCI 2P11 and 2P13
- one SOCI credit

Year 3

- taken at George Brown College

Year 4

- One LABR credit numbered 2(alpha)90 or above (see program note 3)
- one LABR credit numbered 3(alpha)90 or above
- SOCI 3P00 and 3P01
- two SOCI credits numbered 2(alpha)90 or above (see program note 3)

Mohawk College

Year 1

- LABR 1F90
- ECON 1P91 and ECON 1P92 or one POLI credit numbered 1(alpha)90 to 1(alpha)99
- SOCI 1F90
- one Humanities context credit
- one Science context credit

Years 2-4

Students take courses that are required by Mohawk College concurrently with the following list:

- LABR 2P03, 2P06, 3P03 and 3P06
- LABR 2P32 or 2P34
- one LABR credit numbered 2(alpha)90 or above
- one-half LABR credit
- one LABR credit numbered 3(alpha)90 or above
- SOCI 2P11, 2P13, 3P00 and 3P01

- one SOCI credit numbered 2(alpha)90 or above
- two SOCI credits numbered 3(alpha)90 or above

Departmental Offerings which are Approved Labour Studies Credits

CHSC 3P40
Introduction to Health Issues in the Workplace

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

- # Indicates a cross listed course
- * Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

LABR 1F90
Changing Nature of Work and of Labour Relations

Critical issues facing Canadian workers. Basis for conflict; key issues such as the impact of economic restructuring and technological change for working people; occupational health and safety; pay and employment equity; occupational segregation by gender; changing work patterns; and union action. May include international comparisons.
Lectures, seminar, 3 hours per week.

LABR 2P02
Economic Geography
(also offered as GEOG 2P02)
Growth of the world economy since 1500 AD and how this shapes the location of manufacturing, agriculture and services today. Contemporary impact of global economic forces and their roots in the growth of worldwide trading networks, colonialism, the Industrial Revolution, the Fordist crisis and transition to post-Fordism.
Lectures, tutorial, 4 hours per week.

Restriction: open to LABR, GEOG (single or combined) and GEOG (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.
Prerequisite: LABR 1F90, GEOG 1F90 or permission of the instructor.

* LABR 2P03
Labour Law and Labour Unions
(also offered as POLI 2P03)
Labour law and public policy relating to work and organized labour in provincial and federal jurisdictions; institutions in the labour market such as the Labour Relations Board; the structure and functioning of organized labour in Canada; labour law and union organization in other countries.
Lectures, seminar, 3 hours per week.
Prerequisite: LABR 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

LABR 2P06
Collective Bargaining
Bargaining simulation played by students assuming the role of union and management negotiators. Topics may also include a survey of the nature, determinants, and impact of collective bargaining in Canada; the procedural and substantive aspects of collective bargaining; grievance arbitration; and other dispute settlement procedures.
Lectures, seminar, 3 hours a week.
Prerequisite: LABR 1F90 or permission of the instructor.

* LABR 2P09
Labour Relations in Professional Sports
(also offered as SPMA 2P09)
Economic, political and social impacts of labour relations in professional sports. Topics may include free agency, collective bargaining, strikes and lockouts, and the role of players' associations.
Lecture, seminar, 3 hours a week.
Prerequisite: LABR 1F90, SPMA 1P91 or permission of the instructor.

LABR 2P15
The Economics of Unions
(also offered as ECON 2P15)
Labour unions in the marketplace. How unions affect, and are affected by, the labour and product markets. Topics include the effects of unions on wages, fringe benefits, turnover, inequality, productivity and the profitability of firms; union behaviour; who belongs to unions and why; collective bargaining; strikes; interest arbitration; public-sector unionism.
Lectures, 3 hours per week.
Prerequisites: ECON 1P91 and 1P92.

LABR 2P32

In and Out of Work in the Global Economy
(also offered as SOCI 2P32)
Examination of paid and unpaid work in industrialized and industrializing countries. Topics may include patterns of un/under employment, peripheral employment, home-working, worker resistance.
Lectures, seminar, 3 hours per week.
Restriction: open to LABR, SOCI (single or combined) majors and minors until date specified in the Registration guide.
Prerequisite: LABR 1F90 or SOCI 1F90.

* LABR 2P34
Contemporary Labour Movements
(also offered as SOCI 2P34)
Union controversies and issues facing the modern labour movement. Includes economic, political and sociological perspectives and may include an international comparative component.
Lectures, seminar, 3 hours per week.
Prerequisite: LABR 1F90 or SOCI 1F90.

LABR 2P54
Canadian Economic Issues
(also offered as ECON 2P54)
Canadian economic and business problems and policies. Topics may include stabilization, competition, taxation, foreign trade and exchange rate policies.
Lectures, 3 hours per week.
Prerequisites: ECON 1P91 and 1P92.

LABR 2P71
Social Class and Social Conflict
(also offered as SOCI 2P71)
Classical and contemporary approaches to the study of social class. Topics may include class relations and class conflict, elites, social mobility, poverty and social marginalization, the Canadian class structure in comparison to other industrialized nations.
Lectures, seminar, 3 hours per week.
Restriction: open to LABR, SOCI (single or combined) majors, LABR, CRMR and SOCI minors until date specified in Registration guide.
Prerequisite: LABR 1F90 or SOCI 1F90.

LABR 2P73
Globalization, Inequality and the New World Disorders
(also offered as SOCI 2P73)
Global spread of capitalism, historical origins and perpetuation of underdevelopment, the destruction of traditional societies and environmental impact. Socio-economic structures and political institutions of selected Third World countries and their relationships to metropolitan, industrialized power centers.
Lectures, seminar, 3 hours per week.
Restriction: open to LABR, SOCI (single or

combined) majors and minors until dated specified in Registration guide.
Prerequisite: LABR 1F90 or SOCI 1F90.

LABR 2P80

Labour, Environment and Consumption
(also offered as SOCI 2P80)

Topics may include global comparative consumption patterns and the relationship between labour and environmental interests.

Lectures, seminar, 3 hours per week.

Prerequisite: LABR 1F90 or SOCI 1F90.

Completion of this course will replace previous assigned grade and credit obtained in LABR (SOCI) 2V80.

LABR 2P86

Women in the Economy

(also offered as CANA 2P86, ECON 2P86, SOCI 2P86 and WISE 2P86)

Women in the Canadian labour market. Topics include allocation of time between the household and labour market, gender segregation in the work place, how earnings are determined, causes of occupational and earnings difference by gender, role of investment in education and discrimination, recent developments in the labour market and their impact on women and men, and selected policy issues.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 4.0 overall credits.

LABR 2P96

Women and Development

(also offered as INTC 2P96, SOCI 2P96 and WISE 2P96)

Examination of the major social consequences of the theoretical paradigms of development (economic development and women/gender in development): theoretical material, practical knowledge and debates on diverse experiences of women living in the non-industrial world using feminist perspectives.

Lectures, seminar, 3 hours per week.

Prerequisite: one of LABR 1F90, INTC (INTL) 1F90, WISE 1F90 or permission of the instructor.

LABR 2P98

Work in an Information Age

The growth of information and communications technologies in paid and unpaid work in advanced industrial societies. Topics may include changing employment patterns; high-tech enclaves such as Silicon Valley, Kanata and Mondragon; skill training and changes to the gendered nature of work in high technology industries and organizations.

Lectures, seminar, 3 hours per week.

Prerequisite: one of LABR 1F90, ECON 1P91 and 1P92, one POLI credit numbered

1(alpha)90 to 1(alpha)99, SOCI 1F90.

LABR 2P99

Introduction to Canadian Public Policy

(also offered as POLI 2P99)

Major theories, approaches and concepts including the nature of public policy studies, contending theories of the state and public policy making, the growth of the state and the expansion of the scope of public policy activities, and alternative modes of state intervention.

Lectures, seminar, 3 hours per week.

Prerequisite: LABR 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in POLI 3P65.

LABR 2Q98

Introduction to Canadian Public Administration

(also offered as COMM 2Q98 and POLI 2Q98)

Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; human resources and budgetary processes; ethics and accountability.

Lectures, seminar, 3 hours per week.

Prerequisite: one of LABR 1F90, COMM 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in POLI 2F98 or 3P50.

LABR 2V80-2V89

Selected Topics in Labour Studies

LABR 3F98

Tutorial in Labour Studies

Guided readings on a topic not covered in the program's regular course offerings.

Seminar, 3 hours per week.

Restriction: permission of the Director.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial.

* LABR 3P03

Global Labour Issues

(also offered as POLI 3P03)

Shaping of people's changing experience of work by global economic and political change. Topics may include globalization, de-industrialization, class conflict and the relationship between work and the environment.

Seminar, 3 hours per week.

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: LABR 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* LABR 3P06

Class and Culture

(also offered as PCUL 3P06)

Labour issues as portrayed in cultural formats such as media, film, fiction and art. Topics may include the labour movement, its role in society, and its portrayal in popular culture.

Seminar, 3 hours per week.

Restriction: open to students with a minimum 8.0 overall credits.

Prerequisite: LABR 1F90 or permission of the instructor.

LABR 3P13

The Politics of Labour

(also offered as POLI 3P13)

Relations between the labour movement and the state, with particular reference to Canada, including tripartism, corporatism, incomes policy, organized labour and political parties, industrial democracy and worker participation.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

LABR 3P24

Labour Economics

(also offered as ECON 3P24)

Economics of the labour market. Topics include the demand for labour, the supply of labour and investment in human capital. Policy applications.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

LABR 3P25

Topics in Labour Economics

(also offered as ECON 3P25)

Topics vary from year to year and may include unemployment and the impact of unemployment insurance in the labour market, discrimination in the labour market, labour migration and the economic impact of immigration, economics of the family, the distribution of income and wealth in Canada, the economic impact of unions on wages and non-wage outcomes, issues in retirement and pensions.

Lectures, 3 hours per week.

Prerequisite: ECON 2P21 or 2P23.

LABR 3P30

Women, Work and Family

(also offered as WISE 3P30 and SOCI 3P30)

Examination of the transformation of women's paid labour force involvement and evaluation of personal and public strategies to address the work/family conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single or combined), WISE (single or combined) majors and minors until date specified in the Registration guide.

Prerequisite: one of LABR 1F90, SOCI 1F90, WISE 1F90, 2P20.

Note: SOCI 2P32 recommended.

LABR 3P31

Complex Organizations

(also offered as SOCI 3P31)

Research on the nature of complex organizations using theories such as those of the French Regulation School. Formal and informal aspects of the organizational roles; how morale, motivation, work discipline and conflict are regulated; feminist critiques of the traditional literature.

Lectures, seminar, 3 hours per week.

Prerequisite: LABR 1F90 or SOCI 1F90.

LABR 3P33

The State and Economic Life

(also offered as POLI 3P33)

Ideological perspectives on the state-economy relationship; policy instruments including taxation, regulation and public ownership; alternative models of economic policy including socialism, Keynesianism and neo-liberalism.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

LABR 3P34

Information Technology and Work

(also offered as SOCI 3P34)

Application of information technology to the labour process. Topics include the relationship of this technology to the number and types of jobs available, to the total hours worked over a lifetime and to the increased importance given to education and work.

Lectures, seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single or combined) majors and minors until date specified in the Registration guide.

Prerequisite: LABR 1F90 or SOCI 1F90.

LABR 3P48

Wealth, Work, and Power in the United States

(also offered as HIST 3P48)

Business, labour and the state in U.S. history, including the evolution of capitalism from home manufacture to mass production to the service sector, the rise of the modern corporation, the changing nature of work, sexual and racial divisions of labor, public policy, class conflict, welfare capitalism, the Great Depression and New Deal, business and war, deindustrialization, globalization and "free trade."

Lectures, seminar, 3 hours per week.

Restriction: open to LABR, HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P16 recommended.

LABR 3P66

Social Movements

(also offered as SOCI 3P66)

Survey of the impact of ideology on behaviour and the subsequent development of social movements or examinations of particular movements such as separatism, nationalism, fascism, Marxism or feminism.

Lectures, seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single or combined) majors and minors until date specified in the Registration guide.

Prerequisite: LABR 1F90 or SOCI 1F90 or permission of the Department Administrator.

LABR 3P67

Issues in Canadian Public Policy

(also offered as POLI 3P67)

Theories of policy development and their application to several different policy fields.

Lectures, seminar, 3 hours per week.

Restriction: open to Public Administration Co-op majors until date specified in the Registration guide.

Prerequisite: LABR 2P99 or permission of the instructor.

Note: specific fields will change from year to year.

LABR 3P75

Canadian Labour History

(also offered as HIST 3P75)

Canadian workers and the labour movement from the mid-19th century to the present, combining studies of trade unions with the broader context of the social, community and political life of workers. How gender and race/ethnicity have shaped the working class experience.

Lectures, seminar, 3 hours per week.

Restriction: open to LABR, HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Note: HIST 2P62 recommended.

LABR 3P93

Niagara's Changing Economic Geography

(also offered as GEOG 3P93)

Changes in Niagara's industries and occupations; international trade and specialization; circular and cumulative causation; agglomeration and the contemporary world economy; regional growth machines; economic restructuring and income inequality; deindustrialization; agricultural decline; tourism; structural unemployment; brain drain and transition to cognitive-cultural economy.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P02, 2P03, or permission of the instructor.

Note: GEOG 2P12, MATH 1P98, SOCI 2P13 or equivalent is recommended.

Completion of this course will replace previous assigned grade and credit obtained in GEOG 3P47.

LABR 3P98

Directed Studies I

Guided readings on a topic not covered in the program's regular course offerings.

Seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: LABR 1F90.

Note: topics must be chosen in consultation with a faculty member willing to supervise.

LABR 3P99

Directed Studies II

Guided readings on a topic not covered in the program's regular course offerings.

Seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: LABR 1F90.

Note: topics must be chosen in consultation with a faculty member willing to supervise.

LABR 3V90-3V94

Special Topics in Labour Studies

Special topics courses not offered on a regular basis.

Lectures, seminar, 3 hours per week.

Prerequisite: LABR 1F90 or permission of the instructor.

LABR 4F30

Work and Restructuring

(also offered as SOCI 4F30)

Select issues related to the organization of work, social class, the workforce and unions.

Seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single and combined) and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4

(honours).

Prerequisite: one of LABR 2P32, 2P86, 3P30.
Completion of this course will replace previous assigned grade and credit obtained in LABR (SOC/WISE) 4P32.

LABR 4F90

Honours Thesis

Independent research project under the supervision of a faculty advisor.

Restriction: open to LABR majors with approval to year 4 (honours).

Prerequisites: LABR 3P03 and 3P06 (3F00).

Co-requisite: LABR 4F92 (4P91).

Note: applicants to the thesis or practicum option are required to submit a detailed (one page minimum) letter of intent by March 31st of the preceding year.

LABR 4F91

Honours Practicum

Service as research associates with a local organization or trade union. Projects will vary with the needs of the organization/trade union.
Seminar, 3 hours per week.

Restriction: open to LABR majors with a minimum of 14.0 overall credits and a minimum 70 percent major average.

Co-requisite: LABR 4F92 (4P91).

Note: applicants to the thesis or practicum option are required to submit a detailed (one page minimum) letter of intent by March 31st of the preceding year. The faculty facilitator, organization/trade union supervisor and student will negotiate a mutually satisfactory project and work schedule.

LABR 4F92

Honours Seminar

Facilitation of individual thesis proposals including the development of the research question, review of the relevant literature and the integration of theoretical perspectives with the appropriate methodological applications.
Seminar, 3 hours per week.

Prerequisites: LABR 3P03 and 3P06 (3F00).

Co-requisite: LABR 4F90 or 4F91.

LABR 4P15

Canadian Political Economy

(also offered as POLI 4P15)

Political economy tradition in Canada from the writings of Innis, Mackintosh and Creighton to contemporary neo-Marxist and dependency theorists. Topics may include foreign investment, regional development, the labour movement, resources and Canada's place in the new international economy.

Seminar, 3 hours per week.

Restriction: open to LABR, INPE and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

* LABR 4P31

Women, Work and Unions

(also offered as SOCI 4P31 and WISE 4P31)

Theoretical and research developments concerning women's paid and unpaid work. Topics may also include union activism, collective bargaining priorities and related government policies.

Seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single or combined) and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of LABR 1F90 (LABR 1P91 and 1P92), SOCI 1F90, WISE 1F90.

LABR 4P32

Sociology of Work

(also offered as SOCI 4P32 and WISE 4P32)

Theoretical and research developments in the sociology of work. Topics may include the impact of technological innovation on the labour process, reconceptualizations of work and leisure, changes in the gendered nature of work, the role of the contemporary labour movement and international perspectives on labour and the labour force.

Lectures, seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single or combined) and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or LABR credits or permission of the Department Administrator.

Note: SOCI 2P32 recommended.
Completion of this course will replace previous assigned grade and credit obtained in LABR (SOC/WISE) 4F30.

LABR 4P53

Masculinities, Culture and Economy

(also offered as SOCI 4P53 and WISE 4P53)

Theoretical and empirical issues in the study of relationships between masculinities and cultural and economic processes and structures. May include ethnicity, racialization, sexuality, nationalism, popular culture, leisure, changes in work and the labour market, class formation, and the regional identity.

Seminar, 3 hours per week.

Restriction: open to LABR, SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: two SOCI credits or permission of the Department Administrator.

LABR 4P54

Business-Government Relations

(also offered as POLI 4P54)

Politics and management of relations between business organizations and governments in

Canada, emphasizing current research issues. Topics include theories of business-government relations, the legislative and regulatory environment of business, public enterprise and privatization, lobbying and interaction among government, business, the media and labour.

Seminar, 3 hours per week.

Restriction: open to LABR, INPE and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Prerequisite: LABR 2Q98 (2F98 or 3P50) or permission of the instructor.

Note: also open to non-POLS majors with a relevant background in other disciplines and permission of the Department.

LABR 4P92

Directed Studies I

Guided reading on a topic not covered in the Department's regular course offerings.

Seminar, 3 hours per week.

Restriction: open to LABR majors with approval to year 4 (honours).

Note: topics must be chosen in consultation with a participating Faculty member willing to supervise the course.

LABR 4P93

Directed Studies II

Guided reading on a topic not covered in the Department's regular course offerings.

Seminar, 3 hours per week.

Restriction: open to LABR majors with approval to year 4 (honours).

Note: topics must be chosen in consultation with a participating Faculty member willing to supervise the course.

Liberal Arts

Director

Michael Driedger

Associate Professor

Michael Driedger

Assistant Professors

Natalie Alvarez, Linda Steer

Co-operating Centres and Departments

Business, Classics, Dramatic Arts, Earth Sciences, English Language and Literature, History, Music, Philosophy, Political Science, Visual Arts

Academic Adviser

Liz Kaethler

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The Centre for Liberal Arts offers an opportunity for learning and discovery across traditional disciplinary boundaries. Students are encouraged to make connections between fields of learning and expression ranging from the natural and social sciences and the humanities, including religious and literary studies, and the fine and performing arts.

The program fosters a diverse intellectual community committed to well-grounded, passionate, independent thought and creative expression in the tradition of integrated, liberal arts education. Toward this end, students and faculty work together "to ask new questions of old sources" (Catherine Hall). By "old sources" we mean the great works of human reason and imagination. We examine these sources to better understand - and challenge - our own complex world by uncovering the often hidden assumptions that have shaped it. The program seeks to develop the skills of inquiry, analysis, and argument needed for a rigorous treatment of these questions.

The program strives to provide its students with a broad education which it believes is good preparation for any career or life path. Liberal Arts forms a strong foundation for post-graduate professional training such as law or multi-disciplinary graduate studies. Past

graduates of the Liberal Arts Program have become successful businessmen and women, administrators, teachers, university educators, and lawyers.

The program's unity comes from its learning community: Students and faculty share ideas and experiences over several years with a group of like-minded peers.

Liberal Arts must be combined with a major in another discipline or taken as a minor. Students combining Liberal Arts with a major concentration in Mathematics or Science will usually be exempted from the Science context requirement.

Language Requirement for Humanities Majors

Students in the Centre for Liberal Arts are required to complete one credit in a language other than English. Students completing the program to earn the Bachelor of Science degree are not required to do so but it is strongly recommended. Where half credit courses are used to satisfy this requirement, both half credits must be in the same language. Greek or Latin recommended.

Program Notes

1. POLI 4F99 may be substituted for LART 4P99 if the topic selected for the Political Science Honours thesis is approved by the Director of Liberal Arts.

2. In planning their programs students should note that not all LART courses are available every year.

3. These two credits must include one credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MKTG, OBHR, OPER; MGMT 3P98.

4. MATH 1P12 strongly recommended.

5. PHYS 3P90 is offered in alternate years. A student in year 3 when PHYS 3P90 is not offered should take an additional one-half credit from LART courses listed in year 3, and one-half credit less from the LART courses listed under Year 4.

6. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be

numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Bachelor of Arts in Liberal Arts

Honours

Students may take a combined major in Liberal Arts and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

- LART 1F90, 1F93 and 4P99 (see program note 1)
- two and one-half LART credits numbered 1(alpha)90 or above (see program note 6)
- one LART credit number 3(alpha)90 or above (see program note 6)
- one language credit (see language requirement)
- one Sciences context credit
- one Social Sciences context credit

Liberal Arts and Business (Honours only)

In co-operation with the Faculty of Business, the Centre for Liberal Arts offers a combined major leading to a Bachelor of Arts (Honours) in Liberal Arts and Business. This program is designed to provide students with the skills and knowledge demanded for successful leadership in business and a critical understanding of the intellectual forces that have shaped and still shape the world within which that leadership must be exercised. The program is intended for students with career interests involving business leadership and policy making, lifelong learning, social issue management or the management of creative organizations.

Year 1

- LART 1F93 or 1F93
- ACTG 1P91
- ECON 1P91 and 1P92
- MGMT 1P93
- MATH 1P98
- one language credit (see language requirement) or one Sciences context credit
- one-half elective credit

Year 2

- LART 2P90

- one LART credit numbered 2(alpha)00 or above
- ACTG 2P12
- ECON 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- the language credit or Science context credit not taken in year 1

Year 3

- Three LART credits numbered 2(alpha)90 or above
- FNCE 3P93
- MKTG 3P24
- OBHR 3P42
- OPER 2P91

Year 4

- LART 4P99
- one LART credit numbered 3(alpha)90 or above
- MGMT 4P90
- two and one-half credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER (see program note 3)
- one-half elective credit

Pass Program

- LART 1F90 and 1F93
- two LART credits numbered 1(alpha)90 or above (see program note 6)
- one LART credit numbered 3(alpha)90 or above
- one language credit (see language requirement)
- one Sciences context credit
- one Social Sciences context credit

Bachelor of Science in Liberal Arts

Liberal Arts can be combined with a concentration in Mathematics or Science. Students interested in this combination should consult the Director concerning their program and course selection.

Students who complete the combined Honours program in Liberal Arts and Physics may earn the Bachelor of Arts (BA) or Bachelor of Science (BSc) degree depending upon whether the majority of their credits are in the Faculty of Mathematics and Science or the Faculty of Humanities. Students completing the program for the BA degree are deemed Humanities majors and are required to complete the language requirement as described above.

Students completing the program to earn the BSc degree are not required to do so but it is strongly recommended. Context requirements for Liberal Arts majors are deemed satisfied by successful completion of the program.

Liberal Arts and Physics (Honours only)

In co-operation with the Department of Physics, the Centre for Liberal Arts offers a combined major program in Liberal Arts and Physics. The Program will be of interest to students wanting to understand the most important ideas in the physical sciences within the context furnished through the reading and discussion of the major works of reason and imagination that have animated our cultural tradition. The program is flexible enough to accommodate students with varying interests.

Year 1

- LART 1F90 and 1F93
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- one Social Sciences context credit

Year 2

- LART 2P90
- one LART credit numbered 2(alpha)00 or above
- MATH 2F05
- one credit from PHYS 2P20, 2P31, 2P50 (recommended), 2P51
- one and one-half elective credits

Year 3

- PHYS 3P90 (see program note 5)
- one and one-half LART credits numbered 2(alpha)90 or above
- two credits from PHYS 3P35, 3P36, 3P41, 3P70, 3P91
- one elective credit

Year 4

- LART 4P99
- one and one-half LART credits numbered 2(alpha)90 or above
- one credit from PHYS 4F90, 4P30, 4P41, 4P51, 4P52, 4P61, 4P70, 4P94
- two elective credits (see program note 6)

Certificate Program

The Centre for Liberal Arts also offers a Certificate in Liberal Arts. It provides an overview for persons who may be interested in taking an integrated set of courses exploring several major scientific, philosophic and literary

works but already have a degree in a different field or who do not wish to proceed to a degree. The admission requirements are the same as for the degree program. Prospective students should consult with the Director before beginning the certificate program.

See "Certificate Requirements" under Academic Regulations.

The Certificate is awarded upon completion of the following courses with a minimum overall average of 60 percent:

- LART 1F90 and 1F93
- three LART credits numbered 1(alpha)90 or above

Minor in Liberal Arts

Students in other disciplines can obtain a minor in Liberal Arts within their degree program by successfully completing the following courses listed below with a minimum 60 percent overall average:

- LART 1F90 and 1F93
- two LART credits numbered 2(alpha)00 or above

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

LART 1F90

Poets, Painters and Philosophers

Literature, art and philosophy from creative cities (e.g., classical Athens, Renaissance Florence, modern Paris) during periods of cultural and intellectual transformation from

the ancient world to the present.
Lectures, seminars, 3 hours per week.

LART 1F93
Order and Chaos in the Cosmos
Important works of science, philosophy, literature and art addressing the origin and structure of the universe and its association with the divine. Readings include selections from the Bible, Lucretius, Plato, Aristotle, Copernicus, Galileo, Milton, Newton, Darwin, Einstein, Dawkins and Hawking.
Lectures, seminar, 3 hours per week.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 1F93 and 2P93.

LART 1Q98
Introduction to Visual Culture
(also offered as IASC 1Q98 and VISA 1Q98)
Concepts of art, its vocabulary, structure and varied cultural contexts. Problems of meaning, visual perception and formal structure of the visual arts, functions of art in contemporary society, the function of galleries and museums, and the role of patrons and critics. Contemporary critical methodology.
Lectures, seminar, 3 hours week.
Note: no studio work. Materials fee required.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 1Q98.

LART 1Q99
Introduction to the History of Western Art
(also offered as IASC 1Q99 and VISA 1Q99)
Analysis of key monuments and on the prerequisite technology, as well as on various ways of looking at the visual past and present. Focus on the visual arts from prehistory through the early 20th century.
Lectures, seminar, 3 hours week.
Note: no studio work. Materials fee required.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 1Q99.

LART 2F80
History of Science
(also offered as HIST 2F80)
ideas and practices, their cultural roots and impact from Aristotle to the atom bomb.
Lectures, seminar, 3 hours per week.
Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior), GBLS, LART majors and minors until date specified in Registration guide.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 2F80.

LART 2F94
Theatre as Cultural Practice I
(also offered as DART 2F94)
Integrated study of theatre history, theory and dramatic literature from its origins to the advent of realism in the 20th century, concentrating on the context of cultural developments, including theories of acting, dramatic criticism and theatre historiography.
Lectures, seminar, 3 hours per week.
Prerequisite: one of DART 1F93, one ENGL credit numbered 1(alpha)90-1(alpha)99, one LART (GBLS) credit numbered 1(alpha)90-1(alpha)99.
Note: students with credit in IASC 1F00 may be able to register. Contact the instructor. Materials fee may be required.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 2F94.

LART 2P20
Abrahamic Religious Thought
(also offered as PHIL 2P20)
Roots of the monotheisms of Judaism, Christianity and Islam: Who and what is God? What is our relationship to God? What are the ethical bases of religion? What is the nature of faith?
Lectures, seminar, 3 hours per week.
Prerequisite: PHIL 1F90, 1F91, 1F92, 1F93 or 1F94.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 2P20.

LART 2P70
Religions of the World
Development and character of major religious traditions and worldviews.
Lectures, seminar, 3 hours per week.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 2P70.

LART 2P80
Shakespeare 1590-1603
(also offered as ENGL 2P80)
Representative plays from the first half of Shakespeare's dramatic career emphasizing theoretical and cultural issues raised by the plays in the context of fin-de-siècle Elizabethan England.
Lectures, seminar, 3 hours per week.
Prerequisite: one of LART 1F90, (GBLS 1F90), one ENGL credit numbered 1(alpha)90 to 1(alpha)99, MARS 1F90 or permission of the instructor.
Completion of this course will replace previous assigned grade and credit obtained in GBLS (ENGL) 2Q92, and GBLS 2P80.

LART 2P81
Shakespeare 1603-1614
(also offered as ENGL 2P81)
Representative plays from the second half of Shakespeare's dramatic career emphasizing theoretical and cultural issues raised by the plays in the context of the opening decade of James I's culturally divisive reign.
Lectures, seminar, 3 hours per week.
Prerequisite: one of LART 1F90, (GBLS 1F90), one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.
Completion of this course will replace previous assigned grade and credit obtained in GBLS (ENGL) 2Q93 and GBLS 2P81.

* LART 2P82
Shakespeare's Comedies
(also offered as ENGL 2P82)
Representative comedies and tragicomedies emphasizing the variety of Shakespeare's comic modes, from the grotesque to the miraculous, and on theoretical approaches to the comic.
Lectures, seminar, 3 hours per week.
Prerequisite: one of LART 1F90, (GBLS 1F90), one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.
Completion of this course will replace previous assigned grade and credit obtained in GBLS (ENGL) 2Q94 and GBLS 2P82.

*** LART 2P83**
Shakespeare's Tragedies
(also offered as ENGL 2P83)
Shakespeare's development of tragedy as a genre in the context of early modern aesthetic and cultural concerns. Attention to recent theoretical approaches.
Lectures, seminar, 3 hours per week.
Prerequisite: one of LART 1F90, (GBLS 1F90) one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.
Completion of this course will replace previous assigned grade and credit obtained in GBLS (ENGL) 2Q95 and GBLS 2P83.

LART 2P90
Beowulf to Boccaccio: Great Books and Writers of the Middle Ages
(also offered as MARS 2P90)
Major medieval writers and selections from their works. Writers include the Beowulf poet, Dante, Petrarch, Boccaccio, Chaucer and Christine de Pisan.
Lectures, seminar, 3 hours per week.
Restriction: open to LART, GBLS and MARS majors until date specified in Registration guide.
Prerequisite: one of LART 1F90, (GBLS) 1F93, MARS 1F90, one Humanities context credit or permission of the Director.

LART 2P91

Political Theory I

(also offered as POLI 2P91)

Socratic origins of political philosophy as understood by Plato and Aristotle. May include their Christian, Jewish Islamic successors and Machiavelli's critique.

Lectures, seminar, 3 hours per week.

Prerequisite: one of LART 1F90 (GBLS 1F90), one POLI credit numbered 1(alpha)90 to 1(alpha)99.

Note: strongly recommended that students have taken POLI 2P92.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2P91.

LART 2P97

Philosophy of Religion

(also offered as PHIL 2P97)

Traditional issues, such as the proofs for the existence of God, the problem of evil, the relationship of faith to reason and the nature of religious knowledge.

Seminar, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

* LART 2P99

Ideas and Culture before 1850

(also offered as HIST 2P99)

Major developments in European intellectual and cultural life, such as the Renaissance, the Scientific Revolution, the Enlightenment, Romanticism, and the emergence of modern ideologies.

Lectures, seminar, 3 hours per week.

Restriction: open to LART, GBLS, HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2P99.

LART 2Q98

The Artistic Experience

(also offered as PHIL 2Q98 and VISA 2Q98)

Classical theories of art through analysis of painting, photography, video, film, music, and drama examining such concepts as beauty, creativity, artistic intention, perception, interpretation and the nature and possible role of art.

Lectures, seminar, 3 hours per week.

Prerequisite: one PHIL credit or VISA 1Q98 and 1Q99 (1F98) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2Q98.

LART 3F01

The Ancient Epic Tradition

(also offered as CLAS 3F01)

Homer's *Iliad* and *Odyssey*, Apollonius Rhodius' *Argonautica*, Vergil's *Aeneid* and Ovid's *Metamorphoses*. Topics include the conventions of epic, the original oral transmission of heroic verse and its transformation into a written genre, concepts of heroic conduct and character.

Lectures, seminar, 3 hours per week.

Prerequisite: one LART (GBLS) or ENGL credit, or one credit from CLAS 1P91, 1P92, 1P95, 1P97, 2F05.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3F01.

LART 3P00

Ideas and Culture since 1850

(also offered as HIST 3P00)

Intellectual and cultural developments in Europe and America during the 19th and 20th centuries.

Lectures, seminar, 3 hours per week.

Restriction: open to LART, GBLS, HIST (single or combined) and HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.

Prerequisites: one HIST credit numbered 1(alpha)90 to 1(alpha)99 and one HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3P00.

LART 3P90

Prose and Poetry of the Renaissance

(also offered as MARS 3P90)

Themes and style in the works of 15th- and 16th-century continental writers; humanism and philosophical treatises; realism and classicism; Petrarchan ideal in lyric poetry; *querelle des anciens et des modernes*; imitation and originality; the status of the vernacular. Authors may include Machiavelli, Castiglione, Ariosto, Pico, Valla, Ficino, Erasmus, the Placiate poets, Rabelais, and Montaigne.

Lectures, seminar, 3 hours per week.

Restriction: open to LART, GBLS and MARS majors until date specified in Registration guide.

Prerequisite: one of LART 1F90, (GBLS) 1F93, MARS 1F90 or permission of the Director.

* LART 3P93

Science, Politics and Philosophy

(also offered as POLI 3P93)

Philosophic founding of modernity as a political and scientific project in selected works including Machiavelli's *Discourses*, Bacon's *New Organon*, Galileo's *Dialogue Concerning the Two Chief World Systems*, Descartes' *Discourse on*

Method, Hobbes's *Leviathan*, Milton's *Paradise Lost*, Rousseau's *Discourse on the Arts and Sciences* and Smith's *Wealth of Nations*.

Seminar, 3 hours per week.

LART 3P94

Literary Criticism

(also offered as ENGL 3P94)

Literary criticisms from Aristotle to Brooks and Leavis emphasizing enduring literary critical problems.

Lectures, seminar, 3 hours per week.

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3P94.

LART 3P95

Aesthetics of Music

(also offered as MUSI 3P95)

Issues of meaning, beauty, value, and greatness in music through analysis of selected readings from Aristoxenus to the present.

Lectures, seminar, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: (GBLS 2P94) or MUSI 2F90; MUSI 1F50.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3P95.

LART 3P99

Modern Narratives: Expressionism and Surrealism

(also offered as MLLC 3P99)

French, German, Italian and Hispanic writing dealing with Expressionist and Surrealist concerns such as revolt, emotion, dream and unconscious.

Lectures, seminar, 3 hours per week.

Prerequisite: one of FREN 2F03, GERM 2F00 (2F90), ITAL 2F00, SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3P99.

LART 3V90-3V99

Special Topics in Liberal Arts

Selected topics in Western or non-Western works of art, literature, philosophy, history, science and/or theology.

Seminar, 3 hours per week.

* LART 3V96

2009-2010: Imitation in Art and Culture

(also offered as STAC 3V96 and VISA 3V96)
Imitation in Western visual art and culture from

Plato to postmodernism focusing on the Renaissance and the modern period.
Seminar, 3 hours per week.

LART 3V97

2009-2010: Appropriation in Art and Culture
(also offered as STAC 3V97 and VISA 3V97)
Authorship and appropriation in visual and literary culture. Topics include the historical development of the notions of the artist, copyright and plagiarism, quotation, parody and intertextuality, the role of found objects, collage and montage, and the significance of digital technologies. Historical and contemporary examples from a wide range of media.

Lectures, 3 hours per week.

LART 4P01

The Philosophy of Law
(also offered as POLI 4P01)

Traditional and contemporary accounts of law and their implications for issues of contemporary concern.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P01.

LART 4P02

Ancient Political Theory
(also offered as POLI 4P02)

Premodern political philosophy examined in the works of Plato and Aristotle, emphasizing those features distinguishing ancient political science and philosophy from that of modernity.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P02.

LART 4P03

Modern Political Theory
(also offered as POLI 4P03)

Modern political theory examined in selected texts. Topics may include historicism, consent, progress, equality or a selected author such as Rousseau, Kant, Hegel.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLI (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P03.

LART 4P04

Politics and Tyranny
(also offered as POLI 4P04)

Comparative accounts of ancient and modern tyranny examined in light of the question: has political domination varied significantly in the Western tradition.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P04.

LART 4P05

Shakespeare's Politics
(also offered as POLI 4P05)

Issues of justice; politics, law and morality; republican, monarchical and tyrannical government as explored in selected Shakespearean comedies, tragedies and histories.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS, INPE and POLI (single or combined) majors until date specified in the Registration guide. After that date open to ECUL, ENGL (single or combined) and HIST (single or combined) majors. Students must have either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P05.

LART 4P06

Philosophy, Politics and the Family
(also offered as POLI 4P06)

Family relations and their significance for the political community as both have been treated by ancient and modern political philosophers and by contemporary feminists and their critics.

Seminar, 3 hours per week.

Prerequisites: POLI 2P91; POLI 2P92 or 2P93 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P06.

LART 4P07

Postmodern Political Theory
(also offered as POLI 4P07)

Perspectives on the postmodern condition in the works of selected 20th-century thinkers. Topics may include notions on the self; aesthetics and politics; reason and power; the

construction of meaning.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLI (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P07.

LART 4P09

Faith, Philosophy, and Politics
(also offered as POLI 4P09)

Examination of challenges based upon revelation to the sufficiency of unassisted human reason as a guide to human political action.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P09.

LART 4P10

Modernity

Important works of art, literature, philosophy, science and theology from the 19th and 20th centuries that address such questions as: What does it mean to be modern? Is modernity to be greeted or opposed?

Seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P10.

LART 4P70

Apocalypse in Literature, Art and Music

Fear and hope in the coming end of time, as portrayed by artists, writers and musicians. Focus on the long Judeo-Christian apocalyptic tradition.

Seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P70.

LART 4P90

Forbidden Knowledge, Dangerous Art

Important works of art, literature, philosophy and science that were banned for religious, moral or political reasons.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3V95.

LART 4P99

Senior Essay and Workshop

Discussion of Liberal Arts and issues related to

the preparation of a senior essay.

Seminar, tutorial, two terms.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P99.

LART 4V00-4V09

Selected Problems in Political Theory

(also offered as POLI 4V00-4V09)

Particular writer, work or theoretical problem in political philosophy examined.

Seminar, 3 hours per week.

Restriction: open to LART, GBLS and POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4V00-4V09.

LART 4V70-4V79

Text and Context

Topics in Literature and Intellectual History.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4V70-4V79.

Mathematics

Chair

Hichem Ben-El-Mechaiekh

Professors Emeriti

Howard E. Bell, Charles F. Laywine, John P. Mayberry, Eric Muller

Professors

Stephen Anco, Hichem Ben-El-Mechaiekh, Mei Ling Huang, Ronald A. Kerman, Yuanlin Li, Jan Vrbik, Thomas Wolf

Associate Professors

Henryk Fuks, Omar Kihel, Alexander Odesskii, William J. Ralph, Wai Kong (John) Yuen

Assistant Professors

Chantal Buteau, Babak Farzad, Xiaojian Xu

Instructors

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Mathematics Development Programs Manager

Santo D'Agostino

General Information

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The Department of Mathematics offers a unique program, Mathematics Integrated with Computers and Applications (MICA). This innovative program fully integrates computers and applications into a broad spectrum of courses that range over pure mathematics (the study of mathematics for its own sake), applied mathematics (mathematics for applications) and statistics. With its special focus on technology, the MICA program is especially suited for students desiring careers in applications of mathematics that involve computing. Within the MICA program, students can also form areas of concentration in applied and computational mathematics, mathematics education, pure mathematics or statistics, or they can choose to have no area of concentration.

Students in the MICA program get a solid grounding in mathematical theory and learn how to use computer and information technology to apply and present what they have learned. The core of the MICA program

consists of MATH 1P40 and 2F40 in which students will confront problems from pure and applied mathematics that require experimental and heuristic approaches. In dealing with such problems, students will be expected to develop their own strategies and make their own choices about the best combination of mathematics and computing required in finding solutions.

The Computer Science and Mathematics Co-op program combines academic and work terms over a period of four and one-half academic years. Students spend one and one-half years in an academic setting studying the fundamentals of Computer Science and Mathematics prior to their first work placement. Successful completion of courses in the core areas of Computer Science and Mathematics provides the necessary academic background for the work experience. In addition to the current fees for courses in academic study terms, Computer Science and Mathematics Co-op students are assessed an administrative fee for each work term (see the Schedule of Fees).

Eligibility to continue in the Computer Science and Mathematics Co-op program is based on the student's major and non-major averages. A student with a minimum 70 percent major average and a minimum 60 percent non-major average may continue. A student with a major average lower than 70 percent will not be permitted to continue in the Computer Science and Mathematics Co-op program, but may continue in the non-co-op Computer Science and Mathematics stream. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-op Admissions Committee. For further information, see the Co-op Programs section of the Calendar.

The Computer Science and Mathematics Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

The Department has a special interest in Mathematics Education and offers several programs and courses specifically for prospective teachers. These include both Concurrent and Consecutive Education Programs as well as Minors for future teachers.

Certain courses are required for any degree in Mathematics (see below). Because Mathematics majors need both facility in dealing with mathematical theories and experience in the application of mathematics to real-world problems, each student should discuss his or her particular interests with faculty before selecting elective courses.

Program Notes

1. All students must take three context credits: one Humanities context credit, one Sciences context credit and one Social Sciences context credit. Two credits must be used to satisfy context credit requirements in year 1.
2. Students intending to pursue graduate studies in Pure Mathematics will find it essential to have MATH 4P03 and 4P05 or MATH 4P11 and 4P12 and desirable to have all of them.
3. MATH 3P51 and 3P52 are not required for students who fulfill the requirements of the concentration in Mathematics Education, Pure Mathematics or Statistics.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Mathematics Integrated with Computers and Applications Honours Program (MICA)

Year 1

- MATH 1P01, 1P02, 1P12 and 1P40
- three elective credits (see program note 1)

Year 2

- MATH 2F40, 2P03, 2P08, 2P12, 2P81 and 2P82
- the Humanities context credit, Sciences context credit or Social Sciences context credit (not taken in Year 1)
- one-half elective credit

Year 3

- MATH 3P51 and 3P52 (see program note 3)
- two MATH credits numbered 3(alpha)00 or above
- two elective credits (see program note 4)

Year 4

- Four MATH credits (see program notes 2 and 4)
- one elective credit (see program note 4)

Mathematics Pass Program

Year 1

- MATH 1P01, 1P02, 1P12 and 1P40
- three elective credits (see program note 1)

Year 2

- MATH 2F40 and 2P03
- one of MATH 2P08 and 2P12, MATH 2P12 and 2P72, MATH 2P81 and 2P82
- the Humanities context credit, Sciences context credit or Social Sciences context credit (not taken in Year 1)
- one and one-half elective credits

Year 3

- Three MATH credits numbered 3(alpha)00 or above (see program note 4)
 - two elective credits (see program note 4)
-

Combined Major Program

Combined major programs have been developed by the Department of Mathematics in co-operation with each of these departments: Biological Sciences, Chemistry, Computer Science, Economics and Physics. Program requirements are listed in the calendar sections of the co-major discipline. Students may take a combined major in Mathematics and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Mathematics and Computer Science Co-op (Honours only)

Students admitted to the Mathematics and Computer Science Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Year 1

- MATH 1P01, 1P02, 1P12 and 1P40
- COSC 1P02, 1P03 and 1P50
- one Sciences context credit
- one-half elective credit

Year 2

- Fall Term:
- MATH 2P03 and 2P81
 - COSC 2P03, 2P12 and 2P90
 - SCIE 0N90

Winter Term:

- COSC 0N01

Spring/Summer Sessions:

- MATH 1P66 and 1P67
- COSC 2P32
- one-half COSC credit

Year 3

- COSC 3F00
- MATH 2F40 and 3F65
- one Humanities context credit
- one Social Sciences context credit

Spring/Summer Sessions:

- COSC 0N02

Year 4

- Fall Term:
- COSC 0N03

Winter Term:

- MATH 2P82, 3P60 and 4P61
- COSC 2P13
- one COSC credit (see program note 4)

Year 5

- Fall Term:
- One COSC credit (see program note 4)
 - one MATH credit (see program note 4)
 - one-half elective credit (see program note 4)
-

Programs and Courses for Future Teachers

The Department of Mathematics has identified courses that are particularly appropriate for students preparing to become teachers at either the elementary or secondary levels. Students should consult the Chair in the selection of courses.

Elementary

To help students meet Primary/Junior Pre-service Education admission requirements at Brock University - MATH 2P52.

Three credits for a teachable subject at the Junior/Intermediate level. May include MATH 1F92, 1P05, 1P06, 1P12, 1P66, 2P90, 2P93 and 3P91.

Secondary

For Mathematics as the first teachable subject (a minimum of five credits), an Honours degree in Mathematics is recommended.

For Mathematics as the second teachable subject (a minimum of three credits); for example: MATH 1P01, 1P02, 1P12, 2P90, 2P93 and one-half MATH credit.

Concurrent BSc/BEd

The Department of Mathematics and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEd programs. The Mathematics BSc (Honours)/BEd programs combines the BSc Honours program or BSc Integrated Studies Honours program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10). Refer to the Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior) or Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) program listings for further information.

Certificate in Statistics

The Mathematics Department offers a program leading to a Certificate in Statistics normally for those with a degree in another discipline.

See "Certificate Requirements" under Academic Regulations.

The certificate in Statistics is awarded upon completion the following courses with a minimum 60 percent overall average:

One university Calculus credit
MATH 2P12, 2P81, 2P82, 3P81, 3P82, 3P85, 4P81 and 4P82

Concentration Program

Concentration in Applied and Computational Mathematics

Students may earn a Concentration in Applied and Computational Mathematics by successfully completing the following courses as part of the academic work leading to a BSc (Honours) in Mathematics Integrated with Computers and Applications:

- MATH 2F40, 3P51 and 3P52
- two and one-half credits from MATH 3P04, 3P08, 3P09, 3P12, 3P60, 3P72, 3P75
- two credits from MATH 4P05, 4P07, 4P09, 4P84, 4P93, 4P94

Concentration in Mathematics Education

Students may earn a Concentration in Mathematics Education by successfully completing the following courses as part of the academic work leading to a BSc (Honours) in Mathematics Integrated with Computers and Applications:

- MATH 2F40, 2P03, 2P08, 2P12, 2P71, 2P90, 2P93, 3P12, 3P90 and 3P91
- MATH 3P51 or 3P93

Concentration in Pure Mathematics

Students may earn a Concentration in Pure Mathematics by successfully completing the following courses as part of the academic work leading to a BSc (Honours) in Mathematics Integrated with Computers and Applications (with the possible exception of MATH 2P72):

- MATH 2P04, 2P12, 2P13, 3P03, 3P04, 3P12 and 3P13
- MATH 2P71 (recommended) or 2P72
- one credit from MATH 3P08, 3P09, 3P51, 3P52, 3P60, 3P72, 3P97, 3P98
- two credits from MATH 4F90, 4P03, 4P04, 4P11, 4P12, 4P71, 4P92, 4P93

Concentration in Statistics

Students may earn a Concentration in Statistics by successfully completing the following courses as part of the academic work leading to a BSc (Honours) in Mathematics Integrated with Computers and Applications:

- MATH 2F40, 2P81, 2P82, 3P81, 3P82, 3P85, 3P86, 4P81, 4P82, 4P84 and 4P85

Minor Program

Minor in Mathematics

Students in other disciplines may obtain a Minor in Mathematics within their degree program by completing the following courses with a minimum 60 percent average:

- MATH 1P01, 1P02, 1P12, 1P40 and 2F40
- one MATH credit numbered 2(*alpha*)00 or above
- one MATH credit numbered 3(*alpha*)00 or above

Minor Programs for Teachers

Students intending to become elementary teachers, who are in another discipline, can obtain a Minor in Elementary Teaching

Mathematics within their degree program by completing the following courses with a minimum 60 percent overall average:

- MATH 1P12, 1P66, 1P97, 1P98, 2P90, 2P93 and 3P91
- one-half MATH credit

Students intending to become secondary teachers, who are in another discipline, can obtain a Minor in Secondary Teaching Mathematics within their degree program by completing the following courses with a minimum 60 percent overall average:

- MATH 1P01, 1P02, 1P12, 1P40, 2P90 and 2P93
- two MATH credits numbered 2(*alpha*)00 or above

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

MATH 1F92

Introductory Statistics

Describing and comparing data sets, linear regression analysis, basic probability theory, discrete probability distributions, binomial and normal distributions, Central Limit Theorem, confidence intervals and hypothesis tests on means and proportions, properties of t-, F- and chi-squared distributions, analysis of variance, inference on regression. Emphasis on interpretation of numerical results for all topics. Use of Minitab.

Lectures, 3 hours per week.

Prerequisite: one grade 11 mathematics credit. Note: designed for non-science majors. Not open to students with credit in any university mathematics or statistics course.

MATH 1P01

Calculus Concepts I

Differential calculus with an emphasis on concepts and the use of both theory and computers to solve problems. Precalculus topics, limits, continuity and the intermediate value theorem, derivatives and differentiability, implicit differentiation, linear approximation, mean value theorem with proof and applications, max and min, related rates, curve sketching, l'Hospital's rule, antiderivatives, Riemann sums, FTC with proof, integration by substitution. Use of Maple.

Lectures, 4 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: two grade 12 mathematics credits including MCV4U or permission of the instructor.

Note: open to all, but primarily intended for mathematics majors and/or future teachers.

Completion of this course will replace previous assigned grade and credit obtained in MATH 1P05.

MATH 1P02

Calculus Concepts II

Integral calculus with emphasis on concepts, theory, and computers to solve problems. Further integration techniques. Applications to areas between curves, volumes, arc length and probabilities. Multivariable calculus: partial derivatives, optimization of functions of two variables. Sequences and series: convergence tests, Taylor and Maclaurin series and applications. Differential Equations: direction fields, separable equations, growth and decay, the logistic equation, linear equations. Use of Maple.

Lectures, 4 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 1P01 or 1P05 and permission of instructor.

Note: open to all, but primarily intended for mathematics majors and/or future teachers.

Completion of this course will replace previous assigned grade and credit obtained in MATH 1P06.

MATH 1P05

Applied Calculus I

Differential calculus emphasizing problem solving, calculation and applications. Precalculus topics, limits, continuity, derivatives and differentiability, implicit differentiation, linear approximation, max and min, related rates, curve sketching, l'Hospital's rule, antiderivatives, integrals, FTC without proof, integration by substitution. Use of Maple.

Lectures, 4 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: two grade 12 mathematics credits including MCV4U or permission of the instructor.

Note: designed for students in the sciences, computer science, and future teachers. Completion of this course will replace previous assigned grade and credit obtained in MATH 1P01.

MATH 1P06

Applied Calculus II

Integral calculus emphasizing problem solving, calculations and applications. Further techniques of integration. Applications to areas between curves, volumes, arc length and probabilities. Multivariable calculus: partial derivatives, optimization of functions of two variables. Sequences and series: convergence tests, Taylor and Maclaurin series and applications. Differential Equations: direction fields, separable equations, growth and decay, the logistic equation, linear equations. Use of Maple.

Lectures, 4 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 1P01 or 1P05.

Note: designed for students in the sciences, computer science, and future teachers.

Completion of this course will replace previous assigned grade and credit obtained in MATH 1P02.

MATH 1P12

Linear Algebra I

Introduction to finite dimensional real vector spaces; systems of linear equations: matrix operations and inverses, determinants. Vectors in \mathbb{R}^2 and \mathbb{R}^3 : Dot product and norm, cross product, the geometry of lines and planes in \mathbb{R}^3 ; Euclidean n -space, linear transformations for \mathbb{R}^n to \mathbb{R}^m , complex numbers, selected applications and use of a computer algebra system.

Lectures, 4 hours per week.

Prerequisites: two grade 12 mathematics credits or permission of instructor.

MATH 1P20

Introduction to Mathematics

Essential mathematics skills required for university mathematics courses. Sets, real and complex numbers, solutions of inequalities and equations, functions, inverse functions, composition of functions, polynomial functions, rational functions, trigonometry, trigonometric functions, trigonometric identities, conic sections, exponential functions, logarithmic functions, polar co-ordinates, mathematical induction, binomial theorem, vectors and matrices.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: one grade 11 mathematics credit.

Note: not open to students with credit in any university calculus course.

MATH 1P40

Mathematics Integrated with Computers and Applications I

Exploration of ideas and problems in algebra differential equations and dynamical systems using computers. Topics include number theory, integers mod p , roots of equations, fractals, predator-prey models and the discrete logistic equation for popular growth.

Lectures, 2 hours per week; lab, 2 hours per week.

Prerequisite: MATH 1P01 or 1P05.

MATH 1P66

Mathematical Reasoning

Introduction to mathematical abstraction, logic and proofs including mathematical induction.

Lectures, 3 hours per week.

Prerequisite: one grade 12 mathematics credit.

Note: MCB4U recommended.

MATH 1P67

Mathematics for Computer Science

Development and analysis of algorithms, complexity of algorithms; recursion solving recurrence relations; relations and functions.

Lectures, 3 hours per week.

Prerequisite: MATH 1P66.

Note: designed for students in Computer Science.

MATH 1P97

Differential and Integral Methods

Elementary functions, particularly the power function, the logarithm and the exponential; the derivative and its application; integration; approximation to the area under a curve; the definite integral; partial differentiation; simple differential equations; numerical methods; and the use of computer algebra systems.

Lectures, 4 hours per week.

Prerequisite: one grade 12 mathematics credit or MATH 1P20.

Note: MCB4U recommended. Designed for students in Biological Sciences, Biotechnology, Business, Earth Sciences, Environment, Economics, Geography and Health Sciences. Not open to students with credit in any university calculus course.

MATH 1P98

Basic Statistical Methods

Descriptive statistics; probability distributions, estimation; hypothesis testing; normal, chi-squared, t - and F -distributions; mean and variance tests; regression and correlation; and the use of statistical computer software.

Lectures, 3 hours per week.

Prerequisite: one grade 12 mathematics credit or MATH 1P20.

Note: designed for students in Biological Sciences, Biotechnology, Business, Earth Sciences and Health Sciences. Not open to students with credit in any university statistics course.

MATH 2F05

Applied Advanced Calculus

First and second order differential equations, vector functions, curves, surfaces; tangent lines and tangent planes, linear approximations, local extrema; cylindrical and spherical co-ordinates; gradient, divergence, curl; double and triple integrals, line and surface integrals; Green's theorem, Stokes' theorem, Gauss' theorem; elementary complex analysis. Emphasis on applications to physical sciences. Use of Maple.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 1P02 or 1P06.

Students will not receive earned credit in MATH 2F05 if MATH 2P03 has been successfully completed.

MATH 2F40

Mathematics Integrated with Computers and Applications II

Theory and application of mathematical models; discrete dynamical systems; time series and their application to the prediction of weather and sunspots; Markov chains; empirical models using interpolation and regression; continuous stochastic models; simulation of normal, exponential and chi-square random variables; queuing models and simulations, use of a computer algebra system.

Lectures, lab, 4 hours per week.

Prerequisites: MATH 1P02 and 1P40 or permission of the instructor.

MATH 2P03

Multivariate and Vector Calculus

Multivariable integration, polar, cylindrical and spherical coordinates, vector algebra, parameterized curves and surfaces, vector calculus, arc length, curvature and torsion, projectile and planetary motion, line integrals, vector fields, Green's theorem, Stokes' theorem, the use of computer algebra systems to manipulate vectors, plot surfaces and curves, determine line integrals and analyze vector fields.

Lectures, 3 hours per week, lab/tutorial, 1 hour per week.

Prerequisite: MATH 1P02, 1P06 or permission of the instructor.

MATH 2P04

Basic Concepts of Analysis

Sets; mappings, count ability; properties of the real number system; inner product, norm, and the Cauchy-Schwarz inequality; compactness and basic compactness theorems (Cantor's theorem, the Bolzano-Weierstrass theorem, the Heine-Borel theorem); connectedness; convergence of sequences; Cauchy sequences; continuous and uniformly continuous functions.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P03.

MATH 2P08

Ordinary Differential Equations

Linear and nonlinear differential equations and autonomous systems; analytical and numerical solution methods, basic existence and uniqueness theory, qualitative analysis of solutions including periodic cycles and steady-states, attractors, chaos, asymptotic behaviour; modelling and applications of differential equations, use of a computer algebra system.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 1P02, 1P06 or permission of the instructor.

MATH 2P12

Linear Algebra II

Finite dimensional real vector spaces and inner product spaces; matrix and linear transformation; eigenvalues and eigenvectors; the characteristic equation and roots of polynomials; diagonalization; complex vector spaces and inner product spaces; selected applications; use of a computer algebra system and selected applications.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 1P12.

MATH 2P13

Abstract Linear Algebra

Vector spaces over fields; linear transformations; diagonalization and the Cayley-Hamilton theorem; Jordan canonical form; linear operators on inner product spaces; the spectral theorem; bilinear and quadratic forms.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P12.

MATH 2P31

Mathematics and Music

Scales and temperaments, history of the connections between mathematics and music, set theory in atonal music, group theory applied to composition and analysis, enumeration of rhythmic canons, measurement of melodic similarity using metrics, topics in mathematical music theory, applications of statistics to composition and analysis.

Lectures, 3 hours per week; lab/tutorial 1 hour per week.

Prerequisites: one of MATH 1P01, 1P02, 1P05, 1P06, 1P97; MATH 1P12 or permission of the instructor.

MATH 2P52

Principles of Mathematics for Primary and Junior Teachers

Mathematical concepts and ideas in number systems; geometry and probability arising in the Primary and Junior school curriculum.

Lectures, seminar, 4 hours per week.

Restriction: students must have a minimum of 5.0 overall credits.

Note: designed to meet the mathematics admission requirement for the Primary/Junior Pre-service program of the Faculty of Education at Brock University. Not open to students holding credit in any grade 12 or university mathematics course.

MATH 2P71

Introduction to Combinatorics

Counting, inclusion and exclusion, pigeonhole principle, permutations and combinations, derangements, binomial expansions, introduction to discrete probability; to graph theory, Eulerian graphs, Hamilton Cycles, colouring, planarity, trees.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisites: two 4U mathematics credits or permission of the instructor.

MATH 2P72

Discrete Optimization

Problems and methods in discrete optimization. Linear programming: problem formulation, the simplex method, software, and applications. Network models: assignment problems, max-flow problem. Directed graphs: topological sorting, dynamic programming and path problems, and the travelling salesman's problem. General graphs: Eulerian and Hamiltonian paths and circuits, and matchings.

Lectures, 3 hours per week; lab, 1 hour per week.

Prerequisite: MATH 1P12.

MATH 2P75

Introductory Financial Mathematics

Applications of mathematics to financial markets. Models for option pricing, rates of interest, price/yield, pricing contracts and futures, arbitrage-free conditions, market risk, hedging and sensitivities, volatility; stock process as random walks and Brownian motions; Black-Scholes formula; finite difference methods and VaR.

Lectures, lab, 4 hours per week.

Prerequisites: MATH 1P97 and 1P98.

MATH 2P81

Probability

Probability, events, algebra of sets, independence, conditional probability, Bayes' theorem; random variables and their univariate, multivariate, marginal and conditional distributions. Expected value of a random variable, the mean, variance and higher moments, moment generating function, Chebyshev's theorem. Some common discrete and continuous distributions: Binomial, Poisson, hypergeometric, normal, uniform and exponential. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P03 or permission of the instructor.

Note: may be taken concurrently with MATH 2P03.

MATH 2P82

Mathematical Statistics I

Transforming random variables, central limit theorem, law of large numbers. Random sample; sample mean and variance. Sampling from normal population: chi-square, t and F distributions, sample median and order statistics. Point and interval estimation of population parameters: method of moments, maximum-likelihood technique, consistent, unbiased and efficient estimators, confidence intervals. Hypotheses testing: type I and II errors, most powerful tests. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P81.

MATH 2P90

Euclidean and Non-Euclidean Geometry I

The development of Euclidean and non-Euclidean geometry from Euclid to the 19th century. The deductive nature of plane Euclidean geometry as an axiomatic system, the central role of the parallel postulate and the general consideration of axiomatic systems for geometry in general and non-Euclidean geometry in particular. Introduction to transformation geometry. Use of Geometer's Sketchpad.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: one MATH credit.

Completion of this course will replace previous assigned grade and credit obtained in MATH 2P50.

MATH 2P93

Great Moments in Mathematics I

Triumphs in mathematical thinking emphasizing many cultures up to 1000 AD. Special attention is given to analytical understanding of mathematical problems from the past, with reference to the stories and times behind the people who solved them. Students will be encouraged to match wits with great mathematicians by solving problems and developing activities related to their discoveries.

Lectures, 4 hours per week.

Prerequisite: one MATH credit.

Completion of this course will replace previous assigned grade and credit obtained in MATH 2P51.

MATH 2P98

Applied Statistics

Single-factor and factorial experimental design methods; nested-factorial experiments. Simple and multiple linear regression methods, correlation analysis, indicator regression;

regression model building and transformations. Contingency tables, binomial tests, nonparametric rank tests. Simple random and stratified sampling techniques, estimation of sample size and related topics. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 1F92 or 1P98.

MATH 3F65

Mathematical Methods for Computer Science
Applied probability, Markov chains, Poisson and exponential processes, renewal theory, queuing theory, applied differential equations. Networks, graph theory, reliability theory, NP-completeness.

Lectures, 3 hours per week.

Prerequisites: MATH 1P01 or 1P97; MATH 1P12, 1P66 and 1P67.

MATH 3P03

Real Analysis

Approximation of functions by algebraic and trigonometric polynomials (Taylor and Fourier series); Weierstrass approximation theorem; Riemann integral of functions on \mathbb{R}^n , the Riemann-Stieltjes integral on \mathbb{R} ; improper integrals; Fourier transforms.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: MATH 2P04.

MATH 3P04

Complex Analysis

Algebra and geometry of complex numbers, complex functions and their derivatives; analytic functions; harmonic functions; complex exponential and trigonometric functions and their inverses; contour integration; Cauchy's theorem and its consequences; Taylor and Laurent series; residues.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: MATH 2F05 or 2P03.

MATH 3P08

Advanced Differential Equations

Linear second-order differential equations. Integral transform methods, series solutions, special functions (Bessel, Legendre, Laguerre, Hermite). Boundary value problems and general Sturm-Liouville theory, orthogonal functions, series expansions. Linear autonomous systems and phase plane analysis. Emphasis on applications to physical sciences. Use of Maple.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2F05 or 2P08.

MATH 3P09

Partial Differential Equations

First-order equations and method of characteristics. Second-order linear equations, initial and boundary value problems for the heat equation, wave equation, and Laplace equation. Fourier series, cylindrical (Bessel) and spherical (Legendre) harmonic series. Eigenfunction problems and normal modes. Nonlinear wave equations. Emphasis on applications to physical sciences. Use of Maple.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2F05 or 2P08.

MATH 3P12

Applied Algebra

Group theory with applications. Topics include modular arithmetic, symmetry groups and the dihedral groups, subgroups, cyclic groups, permutation groups, group isomorphism, frieze and crystallographic groups, Burnside's theorem, cosets and Lagrange's theorem, direct products and cryptography.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P12 or permission of the instructor.

MATH 3P13

Abstract Algebra

Further topics in group theory: normal subgroups and factor groups, homomorphisms and isomorphism theorems, structure of finite abelian groups. Rings and ideals; polynomial rings; quotient rings. Division rings and fields; field extensions; finite fields; constructibility.

Lectures, 3 hours per week; lab/tutorial 1 hour per week.

Prerequisite: MATH 3P12.

MATH 3P51

Applied Mathematics with Maple

Blending mathematical concepts with computations and visualization in Maple. Modelling of physical flows, waves and vibrations. Animation of the heat equation and wave equation; applications including vibrations of rectangular and circular drums, heat flow and diffusion, sound waves. Eigenfunctions and convergence theorems for Fourier eigenfunction series. Approximations, Gibbs phenomena, and asymptotic error analysis using Maple.

Lectures, lab, 4 hours per week.

Prerequisites: MATH 2F40 and 2P03.

Completion of this course will replace previous assigned grade and credit obtained in MATH 3F40.

MATH 3P52

Partial Differential Equations in C++

Analytic solution of first order PDEs (characteristic ODE systems and their analytic solution) and the numerical solution of first and second order PDEs (discretization, derivation and comparison of different finite difference equations, stability analysis, boundary conditions), the syntax of the C++ programming language, projects in C++ solving PDEs numerically.

Lectures, lab, 4 hours per week.

Prerequisites: MATH 2F40 and 2P03.

Completion of this course will replace previous assigned grade and credit obtained in MATH 3F40.

MATH 3P60

Numerical Methods

Survey of computational methods and algorithms; basic concepts (algorithm, computational cost, convergence, stability); roots of functions; linear systems; numerical integration and differentiation; Runge-Kutta method for ordinary differential equations; finite-difference method for partial differential equations; fast Fourier transform; Monte Carlo methods. Implementation of numerical algorithms in a scientific programming language.

Lectures, 3 hours per week; lab, 1 hour per week.

Prerequisites: MATH 1P02 and 1P12 or permission of the instructor.

MATH 3P72

Continuous Optimization

Problems and methods in non-linear optimization. Classical optimization in \mathbb{R}^n : inequality constraints, Lagrangian, duality, convexity. Non-linear programming. Search methods for unconstrained optimization. Gradient methods for unconstrained optimization. Constrained optimization. Dynamic programming.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: MATH 2F05 or 2P03; MATH 2P72 (2P60).

* MATH 3P73

Game Theory

(also offered as ECON 3P73)

Representation of Games. Strategies and payoff functions. Static and dynamic games of complete or incomplete information. Equilibria concepts: Nash, Bayesian Nash, and Perfect Bayesian Nash equilibria. Convexity concepts, fixed points for correspondences and minimax. Core and Shapley value of a game. Refinements and Applications.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P72 or ECON 3P91.

MATH 3P75

Theory of Financial Mathematics

Probability, Brownian motion, martin-gales, Markov processes, differential equations, finite difference and tree models used in financial mathematics of options; stocks; one-dimensional Ito processes, Black-Scholes for both constant and non-constant inputs, continuous time hedging, valuing American and exotic options.

Lectures, lab, 4 hours per week.

Prerequisites: MATH 1P12 and 2P82; MATH 2F05 or MATH 2P03 and 2P08.

MATH 3P81

Experimental Design

Analysis of variance; single-factor experiments; randomized block designs; Latin squares designs; factorial designs; 2^f and 3^f factorial experiments; fixed, random and mixed models; nested and nested-factorial experiments; Taguchi experiments; split-plot and confounded in blocks factorial designs; factorial replication; regression models; computational techniques and use of SAS, Maple or other statistical packages; related topics.

Lectures, 3 hours per week; lab, 1 hour per week.
Prerequisite: MATH 2P82.

MATH 3P82

Regression Analysis

Simple and multiple linear regression and correlation, measures of model adequacy, residual analysis, weighted least squares, polynomial regression, indicator variables, variable selection and model building, multicollinearity, time series, selected topics. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: MATH 2P12 and 2P82 or permission of the instructor.

MATH 3P85

Mathematical Statistics II

Review of distributional theory. Convergence types. Some special and limiting distributions. Review of point and interval estimations. Efficiency, sufficiency, robustness and completeness. Bayesian estimations, credible intervals, prediction intervals. Basic theory of hypotheses testing: Neyman-Pearson lemma, likelihood ratio test, chi-square test, Test of stochastic independence. Normal models: quadratic forms, noncentral chi-square and noncentral F distributions. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 2P82

MATH 3P86

Applied Multivariate Statistics

Matrix algebra and random vector, sample

geometry and random sampling, multivariate normal distribution, inference about mean, comparison of several multivariate means, multivariate linear regression model, principle components, factor analysis, covariance analysis, canonical correlation analysis, discrimination and classification, cluster analysis, computational techniques and use of SAS, Maple or other statistical packages and related topics.

Lectures, 3 hours per week; lab 1 hour per week.

Prerequisites: MATH 2P12 and 2P82 or permission of the instructor.

MATH 3P90

Euclidean and Non Euclidean Geometry II

Topics in Euclidean and non-Euclidean geometry chosen from the classification of isometries in selected geometries, projective geometry, finite geometries and axiomatic systems for plane Euclidean geometry.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: MATH 1P12 and 2P90 (2P50). Completion of this course will replace previous assigned grade and credit obtained in MATH 3P50.

MATH 3P91

Mathematics at the Junior/Intermediate/Senior Level

A treatment of mathematics and its teaching and learning at the junior, intermediate and senior levels. A major portion of the course will involve directed projects.

Lectures, seminar, 4 hours per week.

Restriction: open to MATH (Honours) BSc/BEEd(Intermediate/Senior), BA (Honours)/BEEd (Junior/Intermediate), BSc (Honours)/BEEd (Junior/Intermediate) and students in minor programs for teachers with a minimum of 9.0 overall credits.

Prerequisite: three MATH credits.

MATH 3P93

Great Moments in Mathematics II

The development of modern mathematics from medieval times to the present. The course includes Fibonacci's calculation revolution, the disputes over cubic equations, Pascal and probability, Fermat's last theorem, Newton and Calculus, Euler and infinite series, set theory and the possibilities of inconsistencies in mathematics.

Lectures, 4 hours per week.

Prerequisites: MATH 1P02, 1P12 and 2P93. Completion of this course will replace previous assigned grade and credit obtained in MATH 3P51.

MATH 3P97

Introductory Topology

Introduction to metric and topological spaces; connectedness, completeness, countability

axioms, separation properties, covering properties, metrization of topological spaces.

Lectures, 4 hours per week.

Prerequisites: MATH 2P04; MATH 2P12 and 2P13 or MATH 3P12 and 3P13.

MATH 3P98

Functional Analysis

Introduction to the theory of normed linear spaces, fixed-point theorems, Stone-Weierstrass approximation on metric spaces and preliminary applications on sequence spaces.

Lectures, 4 hours per week.

Prerequisite: MATH 3P97.

MATH 4F90

Honours Project

Independent project in an area of pure or applied mathematics, or mathematics education.

Restriction: open to MATH (single or combined) majors with either a minimum of 14.0 credits, a minimum 70 percent major average and a minimum 60 percent non-major average or approval to year 4 (honours) and permission of the instructor.

Note: carried out under the supervision of a faculty member. The supervisor must approve the topic in advance. Presentation of the project is required.

MATH 4P03

Advanced Real Analysis

Lebesgue integration on \mathbb{R}^n ; differentiation and absolute continuity; Fubini's theorem; L^p spaces, elementary theory of Banach and Hilbert spaces.

Lectures, 3 hours per week.

Prerequisite: MATH 3P03.

MATH 4P05

Introduction to Wavelets

Wavelets as an orthonormal basis for \mathbb{R}^n , localized in space and frequency; wavelets on the real line; image compression (fingerprint files); wavelet-Galerkin numerical solution of differential equations with variable coefficients.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: MATH 2P08, 2P12 and 3P03. Completion of this course will replace previous assigned grade and credit obtained in MATH 4P04.

MATH 4P07

Topics in Differential Equations

Topics may include ordinary differential equations: existence and uniqueness theory, strange attractors, chaos, singularities. Partial differential equations: Cauchy-Kovalevski theorem, well-posedness of classical linear heat equation and wave equation, weak solutions, global existence, uniqueness and asymptotic behaviour.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P08.

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F08.

*MATH 4P09

Solitons and Nonlinear Wave Equations
(also offered as PHYS 4P09)

Introduction to solitons. Travelling waves, nonlinear wave and evolution equations (Korteweg de Vries, Boussinesq, nonlinear Schrodinger, sine-Gordon), soliton solutions and their interaction properties, Lax pairs and construction of single and multi soliton solutions.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: one of MATH 3P09, 3P51, 3P52 (3F40).

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F08.

MATH 4P11

Topics in Groups

Advanced topics from group theory. Topics may include the Sylow theorems, free groups, nilpotent and solvable groups and some simple Lie groups.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P13.

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F10.

MATH 4P13

Topics in Rings and Modules

Advanced topics from ring theory. Topics may include radicals, Wedderburn-Artin theorems, modules over rings and some special rings.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P13.

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F10.

MATH 4P14

Advanced Mathematical Structures

Topics may include modules, homological algebra, group algebra, algebraic geometry, lattice theory, graph theory and logic.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P13 or permission of the Department.

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F10 or 4P12.

* MATH 4P61

Theory of Computation

(also offered as COSC 4P61)

Regular languages and finite state machines: deterministic and non-deterministic machines, Kleene's theorem, the pumping lemma, Myhill-Nerode Theorem and decidable questions. Context-free languages: generation by context-free grammars and acceptance by pushdown automata, pumping lemma, closure properties, decidability. Turing machines: recursively enumerable languages, universal Turing machines, halting problem and other undecidable questions.

Lectures, 3 hours per week.

Restriction: open to COSC (single or combined) majors.

Prerequisite: MATH 1P67.

Note: MATH students may take this course with permission of Department.

MATH 4P71

Combinatorics

Review of basic enumeration including distribution problems, inclusion-exclusion and generating functions. Polya theory. Finite fields. Orthogonal Latin squares, affine and projective planes. Coding theory and cryptography.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Restriction: permission of the Department.

Note: while no specific course is an essential prerequisite, students should have competence in abstraction equivalent to that obtained by successful completion of MATH 3P12.

MATH 4P81

Sampling Theory

Theory of finite population sampling; simple random sampling; sampling proportion; estimation of sample size; stratified random sampling; optimal allocation of sample sizes; ratio estimators; regression estimators; systematic and cluster sampling; multi-stage sampling; errors in surveys; computational techniques and use of SAS, Maple or other statistical packages and related topics.

Lectures, 3 hours per week; lab, 1 hour per week.

Prerequisite: MATH 3P85 or permission of the instructor.

MATH 4P82

Nonparametric Statistics

Order statistics, rank statistics, methods based on the binomial distribution, contingency tables, Kolmogorov Smirnov statistics, nonparametric analysis of variance, nonparametric regression, comparisons with parametric methods. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P85 or permission of the instructor.

MATH 4P84

Topics in Stochastic Processes and Models

Topics may include general stochastic processes, Markov chains and processes, renewal process, branching theory, stationary processes, stochastic models, Monte Carlo simulations and related topics. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P85 or permission of the instructor.

MATH 4P85

Topics in Advanced Statistics

Topics may include advanced topics in stochastic processes and models, queueing theory, time series analysis, multivariate analysis, Bayesian statistics, advanced methods and theory in statistical inference, and related topics. Use of SAS, Maple or other statistical packages.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P85 or permission of the instructor.

MATH 4P92

Topics in Number Theory and Cryptography

Topics may include algebraic number theory, analytic number theory and cryptography.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Restriction: permission of the Department.

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F91.

MATH 4P93

Topics in Topology and Dynamical Systems

Topics may include point set topology, differential geometry, algebraic topology and dynamical systems.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: MATH 3P97 or permission of the Department.

Completion of this course will replace previous assigned grade and credit obtained in MATH 4F91.

* MATH 4P94

General Relativity and Black Holes

(also offered as PHYS 4P94)

Review of Special Relativity and Minkowski space-time. Introduction to General Relativity theory including gravitation and the space-time metric, light cones, horizons, asymptotic flatness; energy-momentum of particles and light rays (geodesics). Static black holes (Schwarzschild metric), properties of light rays and particle orbits. Rotating black holes (Kerr metric).

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisites: MATH 2F05, PHYS 2P20 and 2P50 or permission of the instructor.

Medieval and Renaissance Studies

Director

R. Andrew McDonald

Adjunct Professor

André Basson (Campus Ministries)

Participating Faculty

Lynn Arner (Women's Studies), Michael J. Carter (Classics), Fanny Dolansky (Classics), Corrado Federici (Modern Languages, Literatures and Cultures) Rosemary Hale (History), Mathew Martin (English Language and Literature), R. Andrew McDonald (History), Carol Merriam (Classics), Behnaz Mirzai (History), Catherine Parayre (Modern Languages, Literatures and Cultures), Brian Power (Music), Virginia Reh (Dramatic Arts), Felipe Ruan (Modern Languages, Literatures and Cultures), Elizabeth Sauer (English Language and Literature), David Schimmelpenninck (History), Angus Somerville (English Language and Literature), Ernesto Virgulti (Modern Languages, Literatures and Cultures)

Academic Adviser

Liz Kaethler

General Information

Administrative Assistant

Cathy Bouwers

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The Centre for Medieval and Renaissance Studies offers an interdisciplinary program focused on the period from Late Antiquity to the 17th century. Faculty and courses are drawn from many different disciplines within the University emphasizing the interrelations among art, architecture, history, music and literature. The program encourages the study of Medieval and Renaissance culture(s) across disciplinary boundaries.

Course offerings and faculty interests range from the last centuries of the Roman world to Renaissance Italy, from Byzantium to Iceland, and from the reading of Latin literature to the analysis of Chaucer, Dante and Shakespeare among many others, as well as the music and art of the period.

The Middle Ages and Renaissance are instrumental in shaping the cultures in which we live. The interdisciplinary understanding of how Medieval and Renaissance cultures worked will illustrate their legacy to us, and their importance in shaping who and what we are. The program seeks to develop the skills and habits of critical inquiry, analysis, argument and expression needed for the rigorous treatment of these questions.

The Centre advises students to have their programs reviewed each year by the Faculty of Humanities Undergraduate Adviser and/or the Director. Students planning to enter fourth year are required to have their programs approved by the Faculty of Humanities Undergraduate Adviser as well as the Director.

Students considering graduate work in Medieval and/or Renaissance Studies should note that graduate programs normally require competence in Latin and other languages depending on the specific area of study.

Language Requirement for Humanities Majors

Students in the Centre for Medieval and Renaissance Studies are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirements, both half-credits must be in the same language. It is recommended that students satisfy this requirement by year 2. Latin is strongly recommended.

Program Notes

1. Honours students must complete 5.0 credits from the list of approved Medieval and Renaissance Studies courses. Pass students must complete 4.0 credits from the list of approved Medieval and Renaissance Studies courses.

2. Students may take 1.0 credit from ENGL 4V00-4V09 as an approved Medieval and Renaissance Studies credit requirement. Students must contact the Director or Academic Adviser before registering for these courses, to ensure they meet the MARS program criteria.

3. Students intending to participate in MARS 3F50 must complete an application package that will be available through the MARS office. Application deadlines will be determined on an annual basis.

4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- MARS 1F90
- one language credit other than English (see language requirement)
- one Sciences context credit
- one Social Sciences context credit
- one elective credit

Year 2

- MARS 2P90 and 2P91
- two credits from the list of approved Medieval and Renaissance Studies courses (see program notes 1, 2 and 3)
- two elective credits

Year 3

- MARS 2P92 and 3P90
- two credits from the list of approved Medieval and Renaissance Studies courses (see program notes 1, 2 and 3)
- two elective credits (see program note 2)

Year 4

Thesis option:

- MARS 4P80, 4P81, 4P98 and 4P99
- one credit from the list of approved Medieval and Renaissance Studies courses or MARS 3V90-99
- two elective credits (see program note 2)

Course Work option:

- MARS 4P80 and 4P81
- one credit from MARS 3V90-99
- one credit from the list of approved Medieval and Renaissance Studies courses (see program notes 1, 2 and 3)
- two elective credits (see program note 2)

Pass Program

Satisfactory completion of the first three years of the honours program entitles students to apply for a Pass degree.

Approved Medieval and Renaissance Studies Courses Offered by Other Departments/Centres

Note: As many of the courses listed below have prerequisites, students should plan their programs in advance

CLAS 1P92
Roman Civilization

CLAS 1P93
Culture and Civilization of Central Europe: From the Prehistoric to the Carolingian Period (also offered as GERM 1P93)

CLAS 3P10
History of the Early Roman Empire

CLAS 3P23
Art and Architecture of Rome in the Imperial Age (also offered as VISA 3P23)

CLAS 3M20-3M29
Study in Mediterranean Lands (also offered as VISA 3M20-3M29)

DART 3P91
Shakespeare in Performance

ENGL 2P19
Chaucer: The Poetry

ENGL 2P21
Sixteenth Century Literature

ENGL 2P24
Early 17th Century Literature

ENGL 2P80
Shakespeare 1590-1603

ENGL 2P81
Shakespeare 1603-1614 (also offered as LART 2P81)

ENGL 2P82
Shakespeare's Comedies (also offered as LART 2P82)

ENGL 2P83

Shakespeare's Tragedies (also offered as LART 2P83)

ENGL 2P84
Non-Shakespearean Drama in England, 1576-1642

ENGL 2V22
Women Writers of Medieval England (also offered as WISE 2V22)

ENGL 3P20
Spenser and the Age of Elizabeth

ENGL 3P22
The Literature of Milton's Time

ENGL 3P91
Introduction to Anglo-Saxon

ENGL 3P92
Anglo-Saxon Poetry

ENGL 3P95
Romance and Visionary Literature of the late Middle Ages

ENGL 3P96
Old Norse: Language and Literature I

ENGL 3P97
Old Norse: Language and Literature II

HIST 2F80
History of Science

HIST 2P03
Early Medieval Britain 400-1000: Celts, Saxons and Vikings (also offered as IASC 2P03)

HIST 2P04
Medieval Britain 1000-1485: The Four Nations (also offered as IASC 2P04)

HIST 2P25
Revolutions in Communication (also offered as IASC 2P25)

HIST 2P70
The Middle East, 600-1800

HIST 2P91
Europe's Reformations, 1450-1650

HIST 2P96
Early Russia

HIST 3P30
The Viking Age

HIST 3P60
The World of Genghis Khan: Inner Asia since 500 BC (also offered as INTC 3P60)

HIST 3Q93
The Crusades

HIST 4V29
Wallace, Bruce and the Wars of Scotland 1286-1346

LATI 1F00
Language (Introductory)

LATI 2F00
Language and Literature

MUSI 4P50
History of Music in the Middle Ages

MUSI 4P51
History of Music in the Renaissance

MUSI 4P55
History of Music and Liturgy to 1600

MUSI 4P96
Topics in the History of Theory: Renaissance and Baroque

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

MARS 1F90

Medieval and Renaissance Civilizations

Key themes, problems and topics in Medieval and Renaissance civilizations, including: the development of concepts of the Middle Ages and the Renaissance; notions of decline, renewal, rebirth and reformation in the West; sources and methods of inquiry.

Lectures, seminar, 3 hours per week.

* MARS 2P90

Beowulf to Boccaccio: Great Books and Writers of the Middle Ages

(also offered as LART 2P90)

Major medieval writers and selections from their works. Writers include the Beowulf poet, Dante, Petrarch, Boccaccio, Chaucer and Christine de Pisan.

Lectures, seminar, 3 hours per week.

Restriction: open to MARS, GBLS and LART majors until date specified in Registration guide.

Prerequisite: one of MARS 1F90, LART 1F90, (GBLS) 1F93, one Humanities context credit or permission of the Director.

MARS 2P91

Castle, Cathedral and Manor: Medieval Architecture and Society

Relationship of trends in military, religious, domestic, urban and monumental architecture of the Middle Ages to changes in medieval society; the relationship of medieval architecture and art to thought.

Lectures, seminar, 3 hours per week.

Restriction: open to MARS majors until date specified in Registration guide.

Prerequisite: MARS 1F90, one Humanities context credit or permission of the Director.

MARS 2P92

Early to High Renaissance Art and Architecture

(also offered as ITAL 2P92 and VISA 2P92)

Major monuments, buildings and art works of the period from several critical perspectives including the humanist influence on the arts in Florence and Rome, the issue of patronage and the question of the artist's cultural status.

Lectures, seminar, 3 hours per week.

Prerequisite: one of MARS 1F90, ITAL 1F90, VISA 1Q98 and 1Q99 or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in VISA (ITAL) 2P40.

MARS 3F50

Heritage of Viking and Medieval Iceland

Heritage, literary culture, manuscripts and environment of the Viking age and medieval Iceland, c. 870-1300. Visits to historic, heritage and saga sites.

Restriction: students must have a minimum of 10.0 overall credits or permission of the

Director.

Note: offered in Iceland. Students must apply prior to registering through the Centre. Application deadlines will be determined on an annual basis. Students are expected to pay their own expenses.

* MARS 3P90

Prose and Poetry of the Renaissance

(also offered as LART 3P90)

Themes and style in the works of 15th- and 16th-century continental writers; humanism and philosophical treatises; realism and classicism; Petrarchan ideal in lyric poetry; *quérelle des anciens et des modernes*; imitation and originality; the status of the vernacular. Authors may include Machiavelli, Castiglione, Ariosto, Pico, Valla, Ficino, Erasmus, the Pléiade poets, Rabelais, and Montaigne.

Lectures, seminar, 3 hours per week.

Restriction: open to MARS, GBLS and LART majors until date specified in Registration guide.

Prerequisite: one of MARS 1F90, LART 1F90, (GBLS) 1F93 or permission of the Director.

MARS 3V90-3V95

Themes in Medieval-Renaissance Civilizations

Seminar, 3 hours per week.

MARS 3V91

2009-2010: Ideas, Artistic Traditions and the Formation of Late Medieval European Societies (1200-1550)

The articulation of cultural values and ideas in theatre, visual arts, rhetoric, architecture and music, and their dissemination through formal and informal networks of social, religious, political and professional interaction.

Seminar, 3 hours per week.

Restriction: open to MARS majors until date specified in Registration guide.

Prerequisite: two MARS credits or permission of the Director.

MARS 3V96-3V99

Problems in Medieval-Renaissance Civilizations

Seminar, 3 hours per week.

MARS 4P80

End of the Ancient World and the Making of the Middle Ages

Transformation of the Roman world between the third and ninth centuries from a variety of critical perspectives, emphasizing recent historical and archaeological work.

Restriction: students must have a minimum 70 percent major average and approval to year 4 (honours).

MARS 4P81

The Cross Goes North

Conversion of Europe to Christianity as a significant theme in the history of the first

millennium and the development of Medieval European culture. Processes in the conversion of the so-called barbarian peoples of northern Europe between about 500 and 1000.

Seminar, 3 hours per week.

Restriction: students must have a minimum 70 percent major average and approval to year 4 (honours).

MARS 4P98

Honours Seminar in Medieval and Renaissance Studies

Critical approaches to Medieval and Renaissance studies from a variety of disciplines and perspectives.

Seminar, 3 hours per week.

Restriction: students must have a minimum 75 percent major average and approval to year 4 (honours).

MARS 4P99

Honours Thesis

Major project in Medieval and Renaissance Studies on a topic of mutual interest to the student and instructor.

Restriction: students must have a minimum 75 percent major average and approval to year 4 (honours).

Modern Languages, Literatures and Cultures

Chair

Leslie Anne Boldt

Professors Emeriti

Leonard Rosmarin, Herbert Schutz

Professors

Alexandre L. A. Amprimoz (French), Sandra L. Beckett (French), Irene M. F. Blayer (Spanish), Leslie A. Boldt (French), Corrado J. A. Federici (Italian), Jane M. Koustas (French)

Associate Professors

Cristina Santos (Spanish), Jean B. Ntakirutimana (French), Ernesto J. Virgulti (Italian)

Assistant Professors

May Bletz (Spanish), Carmela Colella (Italian), Tamara El-Hoss (French), Catherine Parayre (French), Felipe Ruan (Spanish)

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The Department of Modern Languages, Literatures and Cultures offers a variety of courses and degree programs in French, Italian and Spanish as well as comparative and interdisciplinary courses in Modern Languages, Literatures and Cultures (MLLC). The Department also offers courses in Arabic, German, Japanese, Mandarin, Portuguese, Russian and Swahili.

The Department of Modern Languages, Literatures and Cultures offers four-year programs of study leading to a BA Honours in French and Spanish, as well as a combined honours in Italian, three-year BA Pass degree

programs in French, Italian and Spanish, and a concurrent five-year BA(Honours)/BEd (Intermediate/Senior) degree in French. In addition the Department offers Minor programs in French, German, Italian and Spanish.

French, Italian and Spanish

Please consult the relevant entries for a listing of courses and program requirements.

The Department aims to provide students with a thorough and comprehensive knowledge of language (spoken and written), literature and culture. In addition to the courses taught in the language of each program, the Department provides a number of interdisciplinary courses combining subject matter selected from each of the language programs taught in English that are acceptable for credit toward a degree in any of the languages.

Students are encouraged to participate in one or more of the study programs in Québec, France, Italy, Portugal, Spain and Latin America.

One-Month Study in Portugal

This program offers students an opportunity to study for a month in the summer in Portugal. Students must consult with the Department prior to registration to determine the location. Participants may earn up to one credit in Portuguese language.

German

Students are encouraged to participate in both work and study abroad programs to improve fluency and experience German culture first-hand.

Program Notes

1. Unless otherwise noted in the course description, courses numbered 2(alpha)00 and above are taught in the language while courses numbered 1F90 and below are taught in the language to the extent possible.

2. GERM 1F00, 1F90 and 2F00 constitute a sequence. Once credit has been obtained in one of these courses, students are not allowed to take for credit a course in the language with a lower number in the sequence. Students may not take two courses at different levels in the sequence during the same term. This regulation also applies to courses taken at other institutions.

3. The Department reserves the right to refuse admission to and/or credit for any of its

language courses to a student who has, in the view of the Department, a level of competence unsuited to that course.

4. A minor program may include no more than one-half GERM credit given in English.

5. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Minor in German

Students in other disciplines may obtain a Minor in German within their degree program by completing the following courses with a minimum 60 percent overall average:

- GERM 1F90 and 2F00
- GERM credit (see program note 4)
- one GERM literature and/or culture credit numbered 2(alpha)00 or above (see program note 4)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ARABIC

ARAB 1F00

Introductory Classical Arabic

Arabic script; grammatical structures and vocabulary of classical Arabic. Development of the four basic language skills (reading, writing, speaking and listening).

Lectures, tutorial, 4 hours per week.

Note: open to students with no background in the language.

GERMAN

GERM 1F00

Introductory Language

Basic skills: grammar, conversational patterns, reading simple texts; developing oral comprehension and spoken skills. Films, recordings and on-line resources are used.

Lectures, language/computer lab, 4 hours per week.

Note: open to students with no background in the language.

GERM 1F90

Intermediate Language

Introduction of more complex grammar concepts, as well as conversational and written skills using 20th-century literary and media sources including films, recordings and on-line resources.

Lectures, language/computer lab, 4 hours per week.

Prerequisite: GERM 1F00, Ontario grade 12U German or permission of the instructor.

* GERM 1P93

Culture and Civilization of Central Europe: From the Prehistoric to 350CE (also offered as CLAS 1P93)

Cultural development of central Europe from the earliest stone and pottery cultures, through the Bronze and Iron Ages, the Celts and Romans. Beliefs and practices, artistic style and architecture. Digitized images are used to illustrate the cultural evidence.

Lectures, 3 hours per week.

Note: given in English.

GERM 2F00

Language, Literature and Culture

Intensive study of current German language usage, modern literature and contemporary culture. Designed to improve communication, comprehension and written skills.

Lectures, language lab, 3 hours per week.

Prerequisite: GERM 1F90 or permission of the instructor.

GERM 2P80

Tutorial I

Study in an area of language or literature of mutual interest to the student and the instructor. Texts for language practice may be drawn from film, literature, or current news

sources.

Tutorial, 3 hours per week.

Restriction: permission of the instructor.

Note: a written proposal must be approved by the Chair.

GERM 2P90

German Cinema

Major film directors and cultural trends in German cinema. Films studied may include those by Herzog, Fassbinder, von Trotta, Wenders, Schloendorff, Hirschbiegel, Verhoeven and Tykwer.

Lectures, 3 hours per week; plus weekly film lab.

Prerequisite: GERM 1F90 or permission of the instructor.

Note: given in English. German students will submit written work in German and will be assigned readings in German.

GERM 2P92

Language and Literature of the 20th Century
Overview of short narrative texts from pre-World War I to post-World War II. Designed to expand critical reasoning and writing skills, both active and passive vocabularies, and comprehension.

Lectures, 3 hours per week.

Prerequisite: GERM 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GERM 2F92.

GERM 3F99

Advanced Language Study

Intensive grammar review and introduction to advanced topics; translation; practice in speaking, writing and comprehension through written and oral projects, discussions, recordings, films and on-line resources.

Lectures, lab, 3 hours per week.

Prerequisite: GERM 2F00 (2F90) or permission of the instructor.

GERM 3P80

Tutorial II

Advanced study in an area of language or literature of mutual interest to the student and the instructor. Texts for language practice may be drawn from film, literature or current news article sources.

Tutorial, 3 hours per week.

Restriction: permission of the instructor.

Note: a written proposal must be approved by the Chair.

JAPANESE

JAPA 1F00

Introductory Japanese

Acquisition of language skills, such as writing (Hiragana, Katakana and Kanji), reading, listening and speaking as well as some knowledge of Japanese culture.

Lectures, tutorial, 4 hours per week.

Note: open to students with no background in the Japanese language.

JAPA 1F80

Intermediate Japanese

Further development of Japanese grammar, writing, reading and communication skills emphasizing socio-cultural situations.

Lectures, 3 hours per week.

Prerequisite: JAPA 1F00 (1P00 and 1P01) or permission of the instructor.

MANDARIN CHINESE

MAND 1P00

Mandarin Chinese I

Elementary Mandarin focusing on conversation, listening, basic grammatical structures and understanding of relevant customs. Introduction to Pinyin.

Lectures, tutorial, 4 hours per week.

Note: open to students with limited or no background in the language.

MAND 1P01

Mandarin Chinese II

Conversational Mandarin emphasizing vocabulary building, grammatical structures, customs and cultural knowledge. Introduction of Chinese characters.

Lectures, tutorial, 4 hours per week.

Prerequisite: MAND 1P00 or permission of the instructor.

MAND 1P80

Mandarin Chinese III

Basic written and oral skills for everyday needs emphasizing practical communication and reading of Chinese characters.

Lectures, tutorial, 4 hours per week.

Prerequisite: MAND 1P01 or permission of the instructor.

MAND 1P81

Mandarin Chinese IV

Written and oral skills, further development of vocabulary and grammatical structures focusing on writing Chinese characters for practical text development.

Lectures, tutorial, 4 hours per week.

Prerequisite: MAND 1P80 or permission of the instructor.

MODERN LANGUAGES,

LITERATURES AND CULTURES

MLLC 1P90

Introduction to Romance Linguistics

The science of language, focusing on linguistic structures of Romance languages (phonetics, morpho-lexicology, syntax, semantics) and illustrated by examples from various Romance languages (French, Italian, Spanish, Portuguese).

Lectures, 3 hours per week.

Prerequisite: one of 4U/M credit in French, Italian, Portuguese, Spanish, FREN 1P03, FREN 1F00, ITAL 1F00, 1F01, PORT 1F00, SPAN 1F00.

Note: Given in English. Major credit will not be granted to French, Italian or Spanish majors.

* MLLC 2P94

Comparative Analysis of Romance Languages (also offered as LING 2P94)

Romance languages; their structures, related concepts, differences and mutual influences.

Lectures, 3 hours per week.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

MLLC 3P94

Translation Studies

Historical and contemporary perspectives on translation theory and practice. Topics may include the role of the translator, comparative/contrastive analysis, intercultural equivalence and interference, problems in literary and technical translations.

Lectures, seminar, 3 hours per week.

Prerequisite: one of FREN 2F00, GERM 2F00 (2F90), ITAL 2F00, SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, German, Italian or Spanish.

MLLC 3P97

Immigrant Experiences: Narratives of Immigration and Acculturation in the Americas

Characteristics of immigration to the Americas from a comparative perspective, focusing on major destinations for transatlantic migrants in the Americas. Questions of ethnicity and cultural identity; the experiences of immigrants of Italian, French, German, Portuguese and Spanish-speaking backgrounds. Topics may include generational theories, concepts of the melting pot and works of fiction and non-fiction.

Lectures, 3 hours per week.

Prerequisite: one of FREN 2F03, GERM 2F00 (2F90), ITAL 2F00, SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

* MLLC 3P99

Modern Narratives: Expressionism and Surrealism

(also offered as LART 3P99)

French, German, Italian and Hispanic narrative writing dealing with Expressionist and Surrealist concerns such as revolt, emotion, dream and the unconscious.

Lectures, seminar, 3 hours per week.

Prerequisite: one of FREN 2F03, GERM 2F00 (2F90), ITAL 2F00, SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

Completion of this course will replace previous assigned grade and credit obtained in GBL 3P99.

MLLC 3Q90

Foreign Languages and Information Technology

Teaching methodologies and learning styles; evaluation of digital technologies; on-line, specialized software and internet resources in second language acquisition (French, German, Italian and Spanish).

Lectures, 3 hours per week.

Prerequisites: two FREN, GERM, ITAL, MLLC or SPAN credits numbered 2(alpha)00 or above or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

MLLC 3Q99

Modern Narratives: Existentialism

French, German, Italian and Hispanic narrative writing dealing with Existentialist concerns such as death, anguish, responsibility and engagement.

Lectures, seminar, 3 hours per week.

Prerequisite: one of FREN 2F03, GERM 2F00 (2F90), ITAL 2F00, SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

MLLC 4P01

History of Romance Languages

Formation and evolution of the Romance languages from their origins to the present. Factors affecting language change: internal history (sounds and inflection) and external forces (politics, society, thought).

Lectures, 3 hours per week.

Prerequisites: two FREN, ITAL, MLLC or SPAN credits numbered 2(alpha)00 or above or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian and Spanish.

MLLC 4P05

Early Modern Cultures

The Early Modern Period in Europe (15th - 18th centuries) emphasizing France, Germany, Italy and Spain. Topics may include political, scientific, moral, aesthetic and philosophical thought; tragedy; law and literature; civility and courts; the Reformation. Authors may include Corneille, Descartes, Montaigne, Brant, Lessing, Luther, Ariosto, Castiglione, Machiavelli, Calderon, Cervantes and Lope de Vega.

Lectures, 3 hours per week.

Prerequisites: two FREN, GERM, ITAL or SPAN courses numbered 2(alpha)00 or above.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish or of a minor program in German.

PORTUGUESE

PORT 1F00

Introductory Portuguese

Listening, reading, writing and speaking; emphasizing a communicative approach to learning a language.

Lectures, 3 hours per week.

Note: for students with no background in Portuguese.

PORT 1F90

Intermediate Portuguese

Review of Portuguese grammar emphasizing written and oral practice. Introduction to Portuguese and Brazilian literary and cultural readings, as well as topics of current interest.

Lectures, 3 hours per week.

Prerequisite: PORT 1F00.

Note: for students with some background in Portuguese.

PORT 1P95

Conquest and Colonization

(also offered as INTC 1P95 and SPAN 1P95) Creation of a new culture founded on Amerindian, Iberian and African traditions; visual arts, architecture, literature and music; disparity between cultural identity and economic and political identity, utopian ideals, alienation through imitation, rediscovery of autochthonous cultural models.

Lectures, 3 hours per week.

Note: given in English.

PORT 2P10

Latin American Culture Since Independence (also offered as INTC 2P10 and SPAN 2P10) Social, political and cultural history of the Latin American nations through text and images. Topics include cultural hybridization and identity.

Lectures, 3 hours per week.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P10.

PORT 2P11

Iberian Culture

(also offered as INTC 2P11 and SPAN 2P11)
Social, political and cultural history of Portugal and Spain through historical and literary texts, film and other visual arts.

Lectures, 3 hours per week.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P11.

PORT 2P82

Latin American and Iberian Film

(also offered as SPAN 2P82)

Spanish and Latin American representations of identity crises involving issues of nationality, ethnicity, gender, religion and politics. Pastiche, parody and camp aesthetics, and the envisioning of new possibilities of solidarity leading to social transformations.

Lectures, 3 hours per week; plus weekly film lab.

Prerequisite: SPAN 1F90, 1F91 or permission of the instructor.

Note: given in English. Spanish and Portuguese language films with English subtitles.

PORT 3P94

Iberian Narrative

(also offered as SPAN 3P94)

Themes and narrative techniques that characterize the works of major 20th-century authors as well as contemporary Spanish and Portuguese authors.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

Note: taught in Spanish.

PORT 4P10

Readings in Medieval Iberian Narrative

(also offered as SPAN 4P10)

Development of narrative traditions through the early 15th century and their historical contexts.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

Note: taught in Spanish

RUSSIAN

RUSS 1F00

Introductory Russian

Development of the basic skills in language proficiency (reading, writing, speaking and comprehension).

Lectures, 4 hours per week.

SWAHILI

SWAH 1F00

Introductory Kiswahili

Fundamental conversation skills and basic grammatical structures of Kiswahili, focusing on the four basic language skills of speaking, listening, reading and writing. Introduction to major aspects of contemporary Kiswahili culture.

Lectures, 3 hours per week.

Note: open to students with no background in the language.

Music

Chair

Brian Power

Associate Professors

Patricia Debly, Karin Di Bella, Peter Landey,
Harris Loewen, Brian Power

Assistant Professor

Matthew Royal

Part-time Instructors

Gordon Cleland, Terrance Cox, Devon
Fornelli, Zoltan Kalman, Lesley Kingham,
Deborah Linton, Erika Reiman, Tim White

General Information

Administrative Assistant

Natalie Fedj

905-688-5550, extension 3817

Thistle 139

<http://www.brocku.ca/music/>

The goal of the Department of Music, part of the School of Fine and Performing Arts, is to prepare students for their chosen musical career and to produce critically aware musicians with a broadly based musical education. The Department of Music offers four-year programs of study leading to a Bachelor of Music (BMus) Honours, a Bachelor of Arts (BA) Honours in Music, a BA with Major Music and a Pass BA degree program. Students may also pursue a combined major in Music.

Students take core courses in music history, theory, general musicianship and choral ensemble. Students in the BMus program must choose one principal study in applied music (instrumental or vocal lessons). If applied music is not taken in successive years, students must re-audition before proceeding to the next year of applied music. In Year-3 and Year-4, students may pursue specialized interests in theory, musicology, composition and applied music. Students may elect to write an Honours thesis.

Students' progress will be evaluated annually. Students must achieve a minimum of 60 percent in all MUSI required courses and a minimum 70 percent major average to continue in the BMus program. Any student who does not meet these requirements will be placed in the BA with Major program. To re-declare to BMus, a student must upgrade any required MUSI course in which the minimum average was not achieved, and raise their major average

to 70 percent. Otherwise students may continue in the BA with Major program.

The requirement for graduation with a BMus or BA (Honours) is a minimum 70 percent major average and a minimum 60 percent non-major average. The requirement for graduation with a BA with Major is a minimum 60 percent major average and a minimum 60 percent overall average.

Facilities

Facilities in the Department of Music include sound-equipped classrooms, a choral studio and library, a Boesendorfer concert grand piano, Yamaha grand and upright pianos, a two-manual Dowd harpsichord, a Casavant chamber organ and a full complement of percussion instruments. Individual soundproofed practice rooms with pianos for courses in applied music and keyboard skills. A computer music lab with midi synthesizers and state-of-the-art computer notation and sequencing software is available for students interested in computer music applications. One of these rooms is equipped with state-of-the-art virtual acoustic technology and the capability for digital recording.

Concerts, recitals and performance classes are regularly held in the 543-seat Sean O'Sullivan Theatre and in the Martin Luther Chapel, Concordia Lutheran Theological Seminary. A Kingham and Pole seven-rank pipe organ is located in the Chapel.

The Sound and Video Collection, located on the fifth floor of the Library, contains 18 individual study carrels. The Library has an extensive collection of records, compact discs, video tapes, laser discs, DVDs, CDROMs and the requisite playback equipment. There is a substantial collection of music literature, collected editions, scores, music journals and special collections. Students have access to numerous online databases for music research, including *Grove Music Online*, the *Classical Music Library* and the *Naxos Music Library*.

Public Events

The Music program offers a regular series of events open to students and the general public. These include the professional concert series "Encore!", the University Choral Series, the University Wind Ensemble and the regular Tuesday@Noon concert series. Students also attend presentations, masterclasses and guest lectures given by distinguished theorists, musicologists, and visiting performance artists.

Large Ensembles

The Department has several choral ensembles, a wind ensemble and a percussion ensemble. Participation in choral ensemble is required of

all majors and combined majors. The choral and instrumental ensembles are open to any member of the University or the general public who successfully completes an audition. Students may participate for credit in various orchestras in the community (subject to departmental approval).

Entrance Requirements for Music Majors

Prospective majors must possess a level of musical literacy equivalent to Royal Conservatory Grade II rudiments as well as the necessary aural and keyboard skills to complete the course requirements in Music. Prospective majors should possess a level of keyboard proficiency equivalent to Royal Conservatory Grade IV or above.

Prospective students must arrange an audition with the Department of Music. Admission as a major will depend on the successful completion of placement tests in rudiments of theory, keyboard and aural skills. Details concerning interviews, tests and auditions may be obtained from the Administrative Assistant. Admission to the BMus program with transfer credits from other universities requires an overall average of 70 percent in music courses.

An audition on a solo instrument or voice is required of all applicants to the BMus program and of all students wishing to take electives in applied music. Auditions are held in April and May of each year, in conjunction with interviews and placement tests. Late auditions may be scheduled depending on available space in the program.

The recommended audition level for admission into MUSI 1F92 and the BMus program is at least Royal Conservatory Grade IX or its equivalent. Students who are not at this level may audition for MUSI 1P81. Applied music students who study with an approved nonresident instructor should be prepared to cover additional travel and instruction fees. There is a lesson fee for students who are not in the BMus program.

Language Requirement for Humanities Majors

Students in the Department of Music are required to complete one credit in a language other than English. Where half credit courses are used to satisfy the requirement, both half credits must be in the same language.

Program Notes

1. Students are encouraged to take a second language credit (in addition to the Humanities language requirement) in French, Italian, German or Latin.
2. Music majors may take five and one-half credits in any year of the program without approval from the Dean of Humanities.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

BMus Program (Honours only)

Year 1

- MUSI 1F50, 1F90, 1F92, 2Y05 and 2Y06
- one of MUSI 1P87, 1P88, 1P89
- one Science context credit or one Social Science context credit

Year 2

- MUSI 2F90, 2F92, 3Y05 and 3Y06
- one of MUSI 2P87, 2P88, 2P89
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- the Science context credit or Social Science context credit not taken in year 1

Year 3

- MUSI 3F92
- one of MUSI 3P87, 3P88, 3P89
- one and one-half MUSI credits
- one language credit (see language requirement)
- one elective credit

Year 4

- One of MUSI 4P87, 4P88, 4P89
- one-half MUSI credit
- two MUSI credits numbered 3(*alpha*)90 or above
- two elective credits

BA Honours Program

Year 1

- MUSI 1F50, 1F90, 2Y05 and 2Y06
- one of MUSI 1P87, 1P88, 1P89
- one Science context credit
- one Social Science context credit

Year 2

- MUSI 2F90, 3Y05 and 3Y06
- one of MUSI 2P87, 2P88, 2P89
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- one language credit (see language requirement)
- one elective credit

Year 3

- One of MUSI 3P87, 3P88, 3P89
- two and one-half MUSI credits
- two elective credits

Year 4

- One of MUSI 4P87, 4P88, 4P89
- one-half MUSI credit
- two MUSI credits numbered 3(*alpha*)90 or above
- two elective credits

BA with Major Program

This program differs from the Honours program in that honours standing is not required for entry into year 4.

Year 1

- MUSI 1F50, 1F90, 2Y05 and 2Y06
- one of MUSI 1P87, 1P88, 1P89
- one Science context credit
- one Social Science context credit

Year 2

- MUSI 2F90, 3Y05 and 3Y06
- one of MUSI 2P87, 2P88, 2P89
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- one language credit (see language requirement)
- one elective credit

Year 3

- One of MUSI 3P87, 3P88, 3P89
- two and one-half MUSI credits
- two elective credits

Year 4

- One of MUSI 4P87, 4P88, 4P89
- one-half MUSI credit
- two MUSI credits numbered 3(*alpha*)90 or above
- two elective credits

Pass Program

Satisfactory completion of the first three years of an Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Honours

Students may take a combined major in MUSI and in a second discipline. For requirements in the other discipline, students should consult the relevant department. Note that not all departments provide a combined major option.

- MUSI 1F50, 1F90, 2F90, 2Y05, 2Y06, 3Y05 and 3Y06
- one of MUSI 1P87, 1P88, 1P89
- one of MUSI 2P87, 2P88, 2P89
- one of MUSI 3P87, 3P88, 3P89
- one of MUSI 4P87, 4P88, 4P89
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- one MUSI credit

Pass

Satisfactory completion of the first three years of an Honours program entitles a student to apply for a Pass degree.

Minor in Music

Students in other disciplines can obtain a minor in Music within their degree program by completing the following courses with a minimum 60 percent overall average:

- Three MUSI credits
- two MUSI credits numbered 2(*alpha*)90 or above

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

* MUSI 1F00

Music in Popular Culture

(also offered as PCUL 1F00)

Survey of developments in blues, jazz, rock and related genres of popular music.

Lectures, 3 hours per week; listening assignments.

Note: major credit will not be granted to Music majors.

MUSI 1F10

Introduction to Classical Music

Concepts and terminology of Western classical art music from the 17th through 20th centuries. Development of critical listening and writing skills.

Lectures, 3 hours per week.

Note: major credit will not be granted to Music majors. Concert fee. Attendance at designated concerts is required.

MUSI 1F50

History of Music from Medieval to Modern Times

Survey of styles in Western art music; analysis of representative musical compositions with assigned readings from secondary literature.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Note: a level of musical literacy equivalent to Royal Conservatory Grade II rudiments is required.

MUSI 1F90

Theory and Composition I

Two-part counterpoint up to fifth species; principles of text-setting; writing of short compositions without cantus firmus; common practice harmony; introduction to form and analysis; study of motivic development in short one and two part compositions. May include

use of music notation software.

Lectures, 3 hours per week.

Restriction: open to MUSI (single or combined) majors or permission of the instructor.

Prerequisite: successful completion of placement tests in theory equivalent to Royal Conservatory Grade II rudiments.

Co-requisites: MUSI 2Y05 and 2Y06.

MUSI 1F92

Applied Music I

Individual and group instruction in one of the following: piano, organ, voice, classical guitar or any approved concert band and orchestral instrument.

Private instruction, 1 hour per week; performance seminar, 2 hours per week; required participation in student recitals.

Restriction: permission of the Department. See Entrance Requirements for Music Majors.

Note: lesson fee may be required. Concert fee.

Attendance at Department of Music professional "Encore" concert series is required.

MUSI 1P81

Instrumental or Vocal Study I

Individual instruction in one of the following: piano, organ, voice, classical guitar or any approved concert band and orchestral instrument.

Private instruction, 0.5 hour per week for two terms; auditing performance seminar, 2 hours per week for two terms.

Restriction: permission of the Department. See Entrance Requirements for Music Majors.

Note: basic performance skills and solo audition required. Lesson fee. Attendance at Department of Music professional "Encore" concert series is required.

MUSI 1P84

Wind Ensemble I

Selected wind literature in rehearsal and performance; development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Note: previous ensemble experience required.

Competent instrumentalists from the University and community are encouraged to audition.

MUSI 1P86

Symphony Orchestra I

Selected symphonic literature in rehearsal and performance; development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms in Department-approved community orchestra; participation in dress rehearsals and concert

performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Note: membership fee may be required.

MUSI 1P87

Male Voice Choir I

Selected choral literature for male voices in rehearsal and performance; development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Note: pitch-matching skills required; basic sight-singing skills strongly recommended.

Concert uniform is required. Non-majors are encouraged to audition.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 1P83.

MUSI 1P88

Female Voice Choir I

Selected choral literature for female voices in rehearsal and performance; development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Note: pitch-matching skills required; basic sight-singing skills strongly recommended.

Concert uniform is required. Non-majors are encouraged to audition.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 1P83.

MUSI 1P89

Mixed Voice Choir I

Selected choral literature for mixed voices in rehearsal and performance; development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Note: pitch-matching skills required; basic sight-singing skills strongly recommended.

Concert uniform is required. Non-majors are encouraged to audition.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 1P83.

MUSI 1Y85

Percussion Ensemble I

Selected percussion literature in rehearsal and performance for various combinations of percussion instruments, development of sight-reading, technical and interpretive skills.

Rehearsals, 1.5 hours per week for two terms; participation in dress rehearsals and concert

performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.
Note: competent percussionists from the University and community are encouraged to audition.

MUSI 2F90

Theory and Composition II

Eighteenth-century counterpoint; writing of short binary and ternary compositions; three-part fugal expositions; chromatic harmony up to enharmonic modulation; form and analysis; may include use of music notation software.

Lectures, 3 hours per week.

Restriction: open to MUSI (single or combined) majors or permission of the instructor.

Prerequisite: MUSI 1F90 or permission of the instructor.

Co-requisites: MUSI 3Y05 and 3Y06.

MUSI 2F92

Applied Music II

Continuation of instrumental or vocal study.

Private instruction, 1 hour per week; performance seminar, 2 hours per week; required participation in student recitals.

Restriction: permission of the Department.

Prerequisite: MUSI 1F92.

Note: the prerequisite may be satisfied with its equivalent by audition. Lesson fee may be required. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

MUSI 2M90-2M99

Special Topics

Selected topics in music literature involving historical, musicological, analytical or performance issues.

MUSI 2P00

Music of the World's Peoples

Exploration of music as a part of culture through the study of diverse musical traditions (music of the Middle East, Far East, India, aboriginal North America) including analysis of representative vocal and instrumental forms. Topics may include music's role in religion, ritual, economics and politics.

Lectures, 3 hours per week.

MUSI 2P21

Accompanying I

Supervised experience in keyboard accompaniment. Skills include part reduction, interpretation, rehearsal strategies, performance preparation.

Seminar, 1 hour alternating weeks for two terms; skills classes, supervised rehearsals, performances, minimum 1 hour per week.

Restriction: permission of the instructor.

Prerequisite: Royal Conservatory Grade IX Piano or equivalent.

MUSI 2P40

Vocal Techniques

Practical and theoretical instruction in vocal technique.

Lectures, 1.5 hours per week for 2 terms.

Restriction: permission of the Department.

Prerequisite: Royal Conservatory Grade II rudiments or equivalent.

Co-requisite: one of MUSI 1P87, 1P88, 1P89, 2P87, 2P88, 2P89, 3P87, 3P88, 3P89, 4P87, 4P88, 4P89.

Note: not open to students who have taken MUSI 1F92, 1P81, 2F92, or 2P81 if in voice.

MUSI 2P41

Woodwind Techniques

Practical and theoretical instruction in woodwind instruments.

Lectures, 1.5 hours per week for 2 terms.

Restriction: permission of the Department.

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Note: instrumental rental fee may be required.

MUSI 2P42

Brass Techniques

Practical and theoretical instruction in brass instruments.

Lectures, 1.5 hours per week for 2 terms.

Restriction: permission of the Department.

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Note: instrumental rental fee may be required.

MUSI 2P43

Percussion Techniques

Practical and theoretical instruction in percussion instruments.

Lectures, 1.5 hours per week for 2 terms.

Restriction: permission of the Department.

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Note: instrumental rental fee may be required.

Not open to students who have taken MUSI 1F92, 1P81, 2F92 or 2P81 if in percussion.

MUSI 2P44

String Techniques

Practical and theoretical instruction in string instruments.

Lectures, 1.5 hour per week for 2 terms.

Restriction: permission of the Department.

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Note: instrumental rental fee may be required.

MUSI 2P70

Popular Music and Society

(also offered as COMM 2P70, PCUL 2P70 and SOCI 2P70)

Critical approaches to popular music in its social, cultural, political and economic contexts.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to MUSI (single or combined), COMM, PCUL and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: one of MUSI 1F00, 1F50, COMM 1F90, PCUL 1F92, SOCI 1F90 or permission of the instructor.

MUSI 2P81

Instrumental or Vocal Study II

Continuation of individual instrumental or vocal study.

Private instruction, 0.5 hour per week for two terms; auditing performance seminar, 2 hours per week for two terms.

Restriction: permission of the Department.

Prerequisite: MUSI 1F92 or 1P81.

Note: lesson fee; consult the Department. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

MUSI 2P84

Wind Ensemble II

Selected wind literature in rehearsal and performance; continued development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in dress rehearsals and performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 1P84.

MUSI 2P86

Symphony Orchestra II

Selected symphonic literature in rehearsal and performance; further development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms in Department-approved community orchestra; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 1P86.

Note: membership fee may be required.

MUSI 2P87

Male Voice Choir II

Selected choral literature for male voices in rehearsal and performance; continued development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 1P87 (1P83).

Note: basic sight-singing skills. Concert uniform is required.
Completion of this course will replace previous assigned grade and credit obtained in MUSI 2P83.

**MUSI 2P88
Female Voice Choir II**

Selected choral literature for female voices in rehearsal and performance; continued development of vocal and interpretive skills.
Rehearsals, 3 hours per week for two terms; participation in field assignments as required.
Restriction: permission of the instructor (audition) required; consult the Department.
Prerequisite: MUSI 1P88 (1P83).
Note: basic sight-singing skills. Concert uniform is required.
Completion of this course will replace previous assigned grade and credit obtained in MUSI 2P83.

**MUSI 2P89
Mixed Voice Choir II**

Selected choral literature in rehearsal and performance; continued development of vocal and interpretive skills.
Rehearsals, 3 hours per week for two terms; participation in field assignments as required.
Restriction: permission of the instructor (audition) required; consult the Department.
Prerequisite: one of MUSI 1P87, 1P88, 1P89 (1P83).
Note: basic sight-singing skills. Concert uniform is required.
Completion of this course will replace previous assigned grade and credit obtained in MUSI 2P83.

**MUSI 2P93
Conducting I**

Introduction to historical, theoretical and practical aspects of ensemble conducting. Topics include basic patterns, baton techniques, notational terminology and instrumental transpositions.
Lectures, 3 hours per week; field assignments as required.
Restriction: permission of the instructor.
Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.
Co-requisites: one of MUSI 1P84, 1P87, 1P88, 1P89.
Note: keyboard skills strongly recommended.

**MUSI 2P94
Choral Methods I**

Introduction to historical, theoretical and practical aspects of directing children's, youth and adult choirs. Topics include: vocal development, physiology and training; basic audition and rehearsal procedures, score selection and evaluation.

Lectures, 3 hours per week; field assignments as required.

Restriction: permission of the instructor.
Prerequisites: one of MUSI 1P87, 1P88, 1P89 (1P83); MUSI 2P93 or permission of the instructor.
Co-requisite: one of MUSI 2P87, 2P88, 2P89 3P87, 3P88, 3P89 4P87, 4P88, 4P89.

**MUSI 2P98
Computers in Music I**

Introduction to computer music applications, including software for score writing.
Lectures, 3 hours per week.
Restriction: permission of the instructor.
Prerequisites: MUSI 1F50 and 1F90.
Note: basic familiarity with a Windows environment is required.

**MUSI 2P99
Computers in Music II**

Advanced use of computer software for transcription, composition and scholarly publication
Lectures, 3 hours per week.
Restriction: permission of the instructor.
Prerequisite: MUSI 2P98.

**MUSI 2Y05
Aural Skills I**

Aural perception of diatonic musical materials, simple and compound meters, rhythm and elementary chromaticism through sight-reading, dictation and recognition exercises.
Lab, 2 hours per week for two terms.
Restriction: permission of the instructor (aural placement test) required; consult the Department.
Co-requisites: MUSI 1F90 and 2Y06.

**MUSI 2Y06
Keyboard Harmony I**

Introduction to figured bass, melodic harmonization, harmonic progressions and score-reading.
Lab, 1 hour plus tutorial each week for two terms.
Restriction: permission of the Department.
Co-requisites: MUSI 1F90 and 2Y05.

**MUSI 2Y85
Percussion Ensemble II**

Selected percussion literature in rehearsal and performance for various combinations of percussion instruments; further development of sight-reading, technical and interpretive skills.
Rehearsals, 1.5 hours per week for two terms; participation in dress rehearsals and concert performances as required.
Restriction: permission of the instructor (audition) required; consult the Department.
Prerequisite: MUSI 1Y85.

MUSI 3F92

Applied Music III
Continuation of instrumental or vocal study.
Private instruction, 1 hour per week; performance seminar, 2 hours per week; required participation in student recitals.
Restriction: permission of the Department.
Prerequisite: MUSI 2F92.
Note: lesson fee may be required. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

**MUSI 3P02
Recital I**

Preparation and execution of a public recital program under the supervision of the student's principal teacher.
Private instruction, 30 minutes per week.
Restriction: permission of the Department.
Prerequisite: MUSI 2F92 (jury minimum 80 percent), or 3F92 (jury minimum 80 percent)
Co-requisite: MUSI 3F92 or 4F92.
Note: lesson fee required. A written proposal must be submitted to the Department by April 1.

MUSI 3P20

Piano Pedagogy
Methodologies for teaching all ages and all levels. Historical treatises and educational materials, current research and practical teaching experiences. Topics include sequencing and reinforcement of technical and musical concepts, critical evaluation of methods, curriculum design, problem solving techniques and communication skills.
Lectures, 3 hours per week.
Restriction: permission of the instructor.
Prerequisite: Royal Conservatory Grade VIII (piano) or equivalent.

MUSI 3P21

Accompanying II
Supervised experience in keyboard accompaniment.
Seminar, 1 hour alternating weeks for two terms; supervised rehearsals, performances, minimum 1 hour per week.
Restriction: permission of the instructor.
Prerequisite: MUSI 2P21 (minimum 80 percent).

MUSI 3P30

Vocal Pedagogy
Methodologies for teaching all levels, ages, and vocal classifications including technique, physiology and pathology of the voice. Topics include style, language, presentation skills and performance practice.
Lectures, 3 hours per week.
Restriction: permission of the instructor.
Prerequisite: Royal Conservatory Grade VIII (voice) or equivalent.

MUSI 3P31

Diction for Musicians

Principles of pronunciation of texts in English, Italian, German and French. Study of the International Phonetic Alphabet as applied to singing.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: one of MUSI 1F90, 1F92, 1P81, 2P40.

MUSI 3P60

Composition and Orchestration I

Guided composition in two or more parts with analysis of selected works; orchestration and arranging for woodwinds, brass, strings, percussion and voices; use of music notation and sequencing software.

Tutorial, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: MUSI 2F90.

MUSI 3P64

Music Cognition

How the human mind/brain processes, responds to and produces music. Topics include perception, memory, emotions, performance, and the developmental and social psychology of music.

Lectures, 3 hours per week.

Restriction: permission of the Department.

Prerequisite: MUSI 1F50.

MUSI 3P73

Popular Music and Youth Culture

(also offered as COMM 3P73, PCUL 3P73 and SOCI 3P73)

Cultural relationship between young people and popular music. Topics include music's role in the formation of identity, the connection between musical taste and various forms of youth fashion or style, and the impact of new technologies on the ways in which young people access music.

Lectures, seminar, 3 hours per week.

Restriction: open to MUSI (single and combined), COMM, PCUL (single and combined) and SOCI (single or combined) majors with a minimum of 8.0 overall credits or permission of the instructor.

MUSI 3P81

Instrumental or Vocal Study III

Continuation of individual instrumental or vocal study.

Private instruction, 0.5 hour per week; auditing performance seminar, 2 hours per week.

Restriction: permission of the Department.

Prerequisite: MUSI 2F92 or 2P81.

Note: lesson fee. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

MUSI 3P84

Wind Ensemble III

Selected wind literature in rehearsal and performance; continued development of sight-reading, technical and interpretative skills.

Rehearsals, 3 hours per week for two terms; participation in dress rehearsals and performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 2P84.

MUSI 3P86

Symphony Orchestra III

Selected symphonic literature in rehearsal and performance; further development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms in Department-approved community orchestra; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 2P86.

Note: membership fee may be required.

MUSI 3P87

Male Voice Choir III

Selected choral literature for male voices in rehearsal and performance; continued development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 2P87 (2P83).

Note: intermediate sight-singing skills. Concert uniform is required.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 3P83.

MUSI 3P88

Female Voice Choir III

Selected choral literature for female voices in rehearsal and performance; continued development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 2P88 (2P83).

Note: intermediate sight-singing skills. Concert uniform is required.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 3P83.

MUSI 3P89

Mixed Voice Choir III

Selected choral literature in rehearsal and performance; continued development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms;

participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: one of MUSI 2P87, 2P88, 2P89 (2P83).

Note: intermediate sight-singing skills. Concert uniform is required.

Completion of the course will replace previous assigned grade and credit obtained in MUSI 3P83.

MUSI 3P90

Approaches to Music Theory Since 1900

Introduction to Schoenberg's theories of thematic development, Schenkerian voice leading analysis, twelve-tone and elementary set theory, theories of rhythm and form.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50 and 2F90.

MUSI 3P91

History of Music in Canada

Canadian music and its place in our culture from the earliest European influences to the works of modern Canadian composers, through analysis of selected compositions and an exploration of Canadian music-related industries.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: MUSI 1F50.

MUSI 3P93

Conducting II

Intermediate techniques for ensemble conducting. Topics include asymmetrical patterns, left-hand techniques, meter and tempo changes.

Lectures, 3 hours per week; field assignments as required.

Restriction: permission of the instructor.

Prerequisite: MUSI 2P93 or permission of the instructor.

Co-requisite: one of MUSI 2P84, 2P87, 2P88, 2P89.

Note: keyboard skills strongly recommended.

MUSI 3P94

Choral Methods II

Theory and practice of directing youth and adult choirs. Topics include advanced rehearsal procedures, performance practices, score preparation and analysis.

Lectures, 3 hours per week; field assignments as required.

Restriction: permission of the instructor.

Prerequisites: one of MUSI 2P87, 2P88, 2P89 (2P83); MUSI 2P94 and 3P93.

Co-requisite: one of MUSI 3P87, 3P88, 3P89, 4P87, 4P88, 4P89.

* MUSI 3P95

Aesthetics of Music

(also offered as LART 3P95)

Issues of meaning, beauty, value, and greatness in music through analysis of selected readings.
Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50 and MUSI 2F90 or GBLS 2P94).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 3P95.

MUSI 3P96

History of Music in the Baroque Era

Styles, forms and genres from Monteverdi (c. 1600) to Bach (c. 1750), through analysis of selected compositions and readings.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50 and 1F90.

MUSI 3P97

History of Music in the 20th Century

Styles, forms and genres from Debussy (c. 1890) to the present day, through the analysis of selected compositions and readings.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50 and 1F90.

MUSI 3P98

History of Music in the Classical Era

Styles, forms and genres from the pre-Classical era (c. 1740) to Beethoven's late works through the analysis of selected compositions and readings.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50 and 1F90.

MUSI 3P99

History of Music in the Romantic Era

Styles, forms and genres from Schubert (c. 1820) to Wolf (c. 1900) through the analysis of selected compositions and readings.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F90 and 3P98 (2P51).

MUSI 3Y05

Aural Skills II

Aural perception of diatonic and chromatic musical materials, meter and rhythm through sight-singing, dictation and recognition exercises.

Lab, 2 hours per week for two terms.

Prerequisite: MUSI 2Y05 or permission of the instructor.

Co-requisites: MUSI 2F90 and 3Y06.

MUSI 3Y06

Keyboard Harmony II

Figured bass, melodic harmonization, harmonic progressions and score-reading.

Lab, 1 hour, tutorial each week for two terms.

Restriction: permission of the Department.

Prerequisite: MUSI 2Y06.

Co-requisites: MUSI 2F90 and 3Y05.

MUSI 3Y85

Percussion Ensemble III

Selected percussion literature in rehearsal and performance for various combinations of percussion instruments; further development of sight-reading, technical and interpretive skills.

Rehearsals, 1.5 hours per week for two terms; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 2Y85.

MUSI 4F92

Applied Music IV

Continuation of instrumental or vocal study.

Private instruction, 1 hour per week; performance seminar, 2 hours per week; required participation in student recitals.

Restriction: permission of the Department.

Prerequisite: MUSI 3F92.

Note: lesson fee is required. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

MUSI 4F99

Honours Thesis

Thesis in an historical, theoretical, creative or applied area in which the student has developed a particular interest.

Restriction: permission of the Department.

Note: to be chosen in consultation with a faculty member willing to supervise that study. A written proposal must be submitted to the Department for approval by April 1.

MUSI 4P02

Recital II

Preparation and execution of a public recital program under the supervision of the student's principal teacher.

Private instruction, 30 minutes per week.

Restriction: permission of the Department.

Prerequisite: MUSI 3P02 (minimum 80 percent).

Co-requisite: MUSI 4F92.

Note: lesson fee required. A written proposal must be submitted to the Department by April 1.

MUSI 4P50

History of Music in the Middle Ages

Styles, forms and genres from the earliest notated plainchant (c. 850) to the beginning of the Renaissance (c.1425) through investigation of original sources in facsimile and analysis of selected compositions and readings.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50 and 1F90.

MUSI 4P51

History of Music in the Renaissance

Styles, forms and genres from the time of Machaut (c. 1350) to the early works of Monteverdi (c. 1600), through analysis of selected compositions and readings.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: MUSI 1F50 and 1F90.

MUSI 4P52

Eighteenth-Century Italian Opera

Opera seria, opera buffa and the dramma giocoso from the works of Handel to Mozart.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50, 3P96 and 3P98.

MUSI 4P53

Methodology and Research in Musicology

Examination of sources for music research and a historical survey of musicological methodologies.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50; one credit from MUSI 3P96, 3P97, 3P98 and 3P99, 4P50, 4P51, 4P52, 4P54.

MUSI 4P54

Singspiel and German Romantic Opera

Development of German opera from its origins in the Singspiel tradition of the 18th century to the operas of Carl Maria von Weber.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 1F50, 3P98, 3P99 and 4P52.

MUSI 4P55

History of Music and Liturgy to 1600

Music in Christian liturgy from the Middle Ages to the end of the Renaissance.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: MUSI 4P50 or 4P51.

MUSI 4P60

Composition and Orchestration II

Guided composition in larger forms with analysis of selected works; orchestration/arranging for full orchestra or chorus; use of music notation and sequencing software.

Tutorial, 3 hours per week.

Restriction: permission of the instructor.

Prerequisites: MUSI 2F90 and 3P60.

MUSI 4P70

Advanced Studies in Popular Music

(also offered as COMM 4P70 and PCUL 4P70)

Focus on a specific culture, genre, issue or historical era.

Seminar, 3 hours per week.

Restriction: open to MUSI (single or combined), COMM and PCUL majors with approval to year 4 (honours) or permission of the instructor.

MUSI 4P81

Instrumental or Vocal Study IV

Continuation of individual instrumental or vocal study.

Private instruction, 0.5 hour per week; auditing performance seminar, 1-2 hours per week.

Restriction: permission of the Department.

Prerequisite: MUSI 3F92 or 3P81.

Note: lesson fee. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

MUSI 4P84

Wind Ensemble IV

Selected wind literature in rehearsal and performance; continued development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 3P84.

MUSI 4P86

Symphony Orchestra IV

Selected symphonic literature in rehearsal and performance; further development of sight-reading, technical and interpretive skills.

Rehearsals, 3 hours per week for two terms in Department-approved community orchestra; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 3P86.

Note: membership fee may be required.

MUSI 4P87

Male Voice Choir IV

Selected choral literature for male voices in rehearsal and performance; continued

development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 3P87 (3P83).

Note: advanced sight-singing skills. Concert uniform is required.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 4P83.

MUSI 4P88

Female Voice Choir IV

Selected choral literature for female voices in rehearsal and performance; continued development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 3P88 (3P83).

Note: advanced sight-singing skills. Concert uniform is required.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 4P83.

MUSI 4P89

Mixed Voice Choir IV

Selected choral literature in rehearsal and performance; continued development of vocal and interpretive skills.

Rehearsals, 3 hours per week for two terms; participation in field assignments as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: one of MUSI 3P87, 3P88, 3P89 (3P83).

Note: advanced sight-singing skills. concert uniform is required.

Completion of this course will replace previous assigned grade and credit obtained in MUSI 4P83.

MUSI 4P94

Directed Reading in Music Theory

Independent study of contemporary or historical theoretical monographs in consultation with the instructor.

Restriction: permission of the instructor.

Note: a major piece of written work is required.

MUSI 4P95

Topics in the History of Theory: 18th and 19th Centuries

Theories of harmony, melodic phraseology, organicism, the development of theories of sonata form and motivic development.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: MUSI 2F90.

MUSI 4P96

Topics in the History of Theory: Renaissance and Baroque

Readings in music theory from 1470 to 1740 concerning modality/tonality, rhythm/metre, tuning/temperament and pedagogy/practice.

Lectures, 3 hours per week.

Restriction: permission of the instructor.

Prerequisite: MUSI 2F90.

MUSI 4P99

Independent Study

Research project in an historical, theoretical, creative or applied area in which the student has developed a particular interest.

Restriction: permission of the Department.

Note: to be chosen in consultation with a faculty member willing to supervise that study. A written proposal must be submitted to the Department for approval by April 1.

MUSI 4Y85

Percussion Ensemble IV

Selected percussion literature in rehearsal and performance for various combinations of percussion instruments; further development of sight-reading, technical and interpretive skills.

Rehearsals, 1.5 hours per week for two terms; participation in dress rehearsals and concert performances as required.

Restriction: permission of the instructor (audition) required; consult the Department.

Prerequisite: MUSI 3Y85.

Neuroscience

Director

Dawn Good (Psychology)

Co-ordinators

David A. Gabriel (Physical Education and Kinesiology)

Stefan M. Brudzynski, (Psychology)

A. Joffre Mercier (as of July 1, 2009) (Biological Sciences)

Participating Faculty

Allan Adkin (Physical Education and Kinesiology), Stefan M. Brudzynski (Psychology), Robert L. Carlone (Biological Sciences), Kimberly A. Cote (Psychology), Jane Dywan (Psychology), David A. Gabriel (Physical Education and Kinesiology), Dawn E. Good (Psychology), Cheryl McCormick (Psychology), Cathy Mondloch (Psychology), A. Joffre Mercier (Biological Sciences), Cameron C. Muir (Psychology), Sidney J. Segalowitz (Psychology), Gaynor E. Spencer (Biological Sciences), Glenn Tattersall (Biological Sciences), Paul D. Tyson (Psychology)

General Information

Administrative Assistant

Beulah Alexander

905-688-5550, extension 3115
Mackenzie Chown MC F204
<http://www.brocku.ca/neuroscience/>

Neuroscience, the study of behaviour and its underlying neural mechanisms, is studied in psychology, biology and other departments at many universities, but there is an increased tendency in North America and Europe to offer neuroscience as a specialized major program. Neuroscience combines selected courses from the disciplines of psychology, biology and kinesiology that illustrate cellular, physiological and behavioural approaches to examining the nervous system. The program is specifically designed to permit integration of information derived experimentally from many disciplines to gain a better understanding of the relationships between neural function and behaviour. Neuroscience provides information and skills necessary for careers in the health and behavioural sciences. It also provides a firm basis for graduate studies in the neurosciences and depending on choice of courses, prepares the student for entry into medicine, dentistry, chiropractic and physical or occupational therapy.

The BSc Honours program is divided into three streams, allowing students to specialize in either Neurobiological, Neuro-psychological or Neuromotor fields. Honours students must familiarize themselves with the Neuroscience streams and plan appropriately. The Office of the Registrar must be notified of the stream you wish to pursue at the end of the first year. Except for the Neuromotor stream, the first two years are identical in the program. Honours and co-op students must apply for entry to Year 4 in order to complete NEUR 4F90, 4F91 or 4F92. Admittance requires a minimum 70 percent average in all major credits and an average of 60 percent in the remaining credits.

The BSc with Major program is designed to allow students to select courses that suit individual interests and may result in a program that is more general. However, it also offers freedom to specialize within sub-disciplines of neuroscience by following courses in any stream of the Honours program.

The Neuroscience Co-op program combines academic and work terms over a five-year period. Students spend two years in an academic setting studying the core concepts of neuroscience prior to taking the first work placement. The Co-op Programs Office will facilitate admission decisions. In addition to the current fees for courses in academic study terms, Neuroscience Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue in the Neuroscience Co-op program is based on the student's major and non-major averages. A student with a minimum 70 percent major average and a minimum 60 percent non-major average may continue. A student with a major average lower than 70 percent will not be permitted to continue in the Neuroscience Co-op program, but may continue in the non-co-op Neuroscience stream. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-op Admissions Committee. For further information, see the Co-op Programs section of the Calendar, and contact the Centre for Neuroscience.

The Neuroscience Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Program Notes

1. With permission of the honours supervisor, students may arrange to begin NEUR 4F90, 4F91 or 4F92 in the spring session of Year 4.

2. Students, who elect to take PSYC 3F40, complete one-half elective credit.

3. Students who complete PSYC 3P41 must complete PSYC 3P42 and one-half elective credit in year 4; students who complete PSYC 3P30 must complete one elective credit in year 4.

4. In 20 credit Honours degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In this 20 credit BSc with Major degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least four credits must be numbered 2(alpha)90 or above; at least two credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Neurobiology stream

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P97
- PSYC 2F23
- one elective credit

Year 3

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 3P92
- one elective credit

Year 4

Thesis option

- NEUR 3P67, 4F90 and 4F91
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 3P60, 3P92 4P28, 4P34, 4P53, 4P84
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit

Library Research option

- NEUR 3P67 and 4F92
- one and one-half credits from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 3P92, 4P28, 4P34, 4P53, 4P84 (see program note 4)
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit (see program note 4)

Neuromotor stream

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PEKN 2P04
- PSYC 2F23
- one-half elective credit

Year 3

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- PEKN 2P97, 3P10 and 3P94
- one-half elective credit

Year 4

Thesis option

- NEUR 3P67, 4F90 and 4F91
- one of BIOL 4P28, 4P34, 4P84, PEKN 4P10
- PEKN 4P94 and 4P98
- one elective credit

Library Research option

- NEUR 3P67 and 4F92
- BIOL 4P28, 4P34 and 4P84
- PEKN 4P94 and 4P98
- one elective credit

Neuropsychology stream

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93

- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P97
- PSYC 2F23
- one elective credit

Year 3

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- one of LING 2P90, 2P91, 3P97, PSYC 2P12, 2P20, 2P49, 2P51, 3P19, 3P60, 3P68, 3P72, 3P75, 4P29, 4P56
- PSYC 3F40 or 3P30 (see program note 2)
- one elective credit (see program note 2)

Year 4

Thesis option

- NEUR 3P39, 3P67, 4F90 and 4F91
- one credit from LING 2P90, 2P91, 3P97, 4P20, 4P21, NEUR 4P84, 4P85, PSYC 2P12, 2P20, 2P49, 2P51, 3P19, 3P60, 3P68, 3P72, 3P75, 4P22, 4P29, 4P38, 4P55, 4P56, 4P63 (see program note 4)
- one elective credit (see program note 4)

Library Research option

- NEUR 3P67 and 4F92
- two and one-half credits from LING 2P90, 2P91, 4P20, 4P21, NEUR 4P84, 4P85, PSYC 2P12, 2P20, 2P49, 2P51, 3P19, 3P60, 3P68, 3P72, 3P75, 4P21, 4P22, 4P29, 4P38, 4P55, 4P56, 4P63 (see program note 4)
- one elective credit (see program note 4)

Neuroscience Co-op Program (Honours only)

Students admitted to the Neuroscience Co-op program must follow an approved program pattern. The most common pattern is listed below. For other approved patterns, consult the Co-op Office.

Neurobiology stream

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P97
- PSYC 2F23

- SCIE 0N90
- one elective credit

Spring/Summer Sessions:

- NEUR 0N01

Year 3

Fall Term:

- NEUR 3P34, 3P59 and 3P81
- BCHM 3P01
- one-half elective credit

Winter Term:

- NEUR 0N02

Year 4

Fall Term:

- NEUR 0N03

Winter Term:

- NEUR 3P82 and 3P90
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 3P92
- one-half elective credit

Year 5

Thesis option

- NEUR 3P67, 4F90 and 4F91 (see program note 1)
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 3P60, 3P92, 4P28, 4P34, 4P53, 4P84
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit

Library Research option

- NEUR 3P67 and 4F92 (see program note 1)
- one and one-half credits from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 3P60, 3P92, 4P28, 4P34, 4P53, 4P84 (see program note 4)
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit (see program note 4)

Neuromotor stream

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PEKN 2P04
- PSYC 2F23
- SCIE 0N90
- one-half elective credit

Spring/Summer Sessions:

- NEUR 0N01

Year 3

Fall Term:

- NEUR 3P34, 3P59 and 3P81
- BCHM 3P01
- one-half elective credit

Winter Term:

- NEUR 0N02

Year 4

Fall Term:

- NEUR 0N03

Winter Term:

- NEUR 3P82, 3P90, PEKN 2P97, 3P10 and 3P94

Year 5

Thesis option

- NEUR 3P67, 4F90 and 4F91
- one of BIOL 4P28, 4P34, 4P84, PEKN 4P10
- PEKN 4P94 and 4P98
- one elective credit

Library Research option

- NEUR 3P67 and 4F92
- BIOL 4P28, 4P34 and 4P84
- PEKN 4P94 and 4P98
- one elective credit

Neuropsychology stream

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P97
- PSYC 2F23
- SCIE 0N90
- one elective credit

Spring/Summer Sessions:

- NEUR 0N01

Year 3

Fall Term:

- NEUR 3P34, 3P59 and 3P81
- BCHM 3P01
- PSYC 3P30 or 3P41 (see program note 4)

Winter Term:

- NEUR 0N02

Year 4

Fall Term

- NEUR 0N03

Winter Term:

- NEUR 3P82 and 3P90
- one of LING 2P90, 2P91, 3P97, PSYC 2P12, 2P20, 2P49, 2P51, 3P19, 3P60, 3P68, 3P72, 3P75, 4P29, 4P56
- PSYC 3P42 and one-half elective credit, or one elective credit (see program note 4)

Year 5

Thesis option

- NEUR 3P39, 3P67, 4F90 and 4F91 (see program note 1)
- one credit from LING 2P90, 2P91, 3P97, 4P20, 4P21, NEUR 4P84, 4P85, PSYC 2P12, 2P20, 2P49, 2P51, 3P19, 3P60, 3P68, 3P72, 4P21, 4P22, 4P29, 4P38, 4P55, 4P56, 4P63 (see program note 4)
- one elective credit (see program note 4)

Library Research option

- NEUR 3P67 and 4F92 (see program note 1)
- two and one-half credits from LING 2P90, 2P91, 4P20, 4P21, NEUR 4P84, 4P85, PSYC 2P12, 2P20, 2P49, 2P51, 3P60, 3P68, 3P92, 4P21, 4P22, 4P29, 4P56, 4P63 (see program note 4)
- one elective credit (see program note 4)

BSc with Major Program

Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

Year 2

- NEUR 2P36 and 2P37
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PSYC 2F23
- one elective credit

Year 3

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 3P92, LING 2P90, 2P91, 3P97, PSYC 2F12, 2F20, 2F50,

- 3F46, 3P19, 3P60, 3P68, 3P72, 3P75, 4P29, 4P56 (see program note 4)
- one elective credit

Year 4

- NEUR 3P67
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 4P28, 4P34, 4P53, 4P84
- three credits from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 3P60, 3P92, 4P28, 4P34, 4P53, 4P84, LING 2P90, 2P91, 3P97, 4P20, 4P21, NEUR 4P84, 4P85, PSYC 2P12, 2P20, 2P49, 2P51, 3P19, 3P60, 3P68, 3P72, 4P21, 4P22, 4P29, 4P38, 4P55, 4P56, 4P63 (see program note 4)
- one elective credit (see program note 4)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

NEUR 2P36

Brain and Behaviour I
(also offered as PSYC 2P36)

Introduction to behavioural neuroscience - biological aspects of behaviour. Basics of the structure and function of the nervous system in relation to behaviour. Activities of the brain from the neuron through to interrelationships among neural systems. Topics include neuronal function, drugs and behaviour, brain plasticity and recovery from injury, sensation and perception, and the organization of the brain with an emphasis on human behaviour.

Lectures, 3 hours per week; lab, 3 hours per week.
Restriction: open to NEUR, CHSC, HEAR, HLSC, KINS, PSYC (single or combined), SPLS majors and PSYC minors until date specified in Registration guide.
Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit earned in NEUR (PSYC) 2F36 and PSYC 2P35.

NEUR 2P37

Brain and Behaviour II

(also offered as PSYC 2P37)

The relationship between brain physiology and behaviour. Topics relevant to neural mechanisms associated with human actions and cognitions such as motivation (sleep, sexual behaviour, eating), emotions and stress, learning and memory, communication and language, and thought (psychological/psychiatric disorders).

Lectures, 3 hours per week; lab, 3 hours per week.

Restriction: open to NEUR, CHSC, HEAR, HLSC, KINS, PSYC (single or combined), SPLS majors and PSYC minors until date specified in Registration guide.

Prerequisite: NEUR 2P36.

Completion of this course will replace previous assigned grade and credit earned in NEUR (PSYC) 2F36.

NEUR 3F81

Neuroscience

(also offered as PSYC 3F81)

Integrative approach to neuroscience from basic elements of molecular neuroscience, physiology of excitable cells, neurophysiology of major brain systems to behavioural neuroscience and selected topics in affective and cognitive neuroscience. Emphasis on the interdisciplinary nature of the subject and the integrative aspects of brain function. General insight into a number of classical disciplines including neuroanatomy, neurophysiology, neuropharmacology, electrophysiology, neurochemistry and neurology.

Lectures, 2 hours per week; lab, 3 hours alternating weeks.

Restriction: open to NEUR, CHSC, HLSC, PSYC (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: NEUR 2P36 and 2P37 (2F36) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 3P81 and 3P82.

NEUR 3P34

Neurobiology

(also offered as BIOL 3P34)

Structure and function of nerve cells: Electrical properties of neurons, synaptic function and transmitters, neural plasticity and cellular basis of behaviour.

Lectures, 3 hours per week.

Restriction: open to NEUR, BIOL (single or combined) and BIOL (Honours)/BEd (Intermediate/Senior) majors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

NEUR 3P39

Computer Data Analysis

(also offered as PSYC 3P39)

Applications of computers to management and analysis of data, including data entry, statistical procedures and interpretation of output, using SPSS.

Lectures/lab, 3 hours per week.

Restriction: open to PSYC (single or combined) and NEUR majors with a minimum 75 percent major average and a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90 and 2F23.

NEUR 3P59

Introduction to Human Neuropsychology

(also offered as PSYC 3P59)

Relation between brain function and behaviour examined through clinical syndromes and experimental strategies. Topics include neural basis of perception, memory, language, emotion, and executive functions.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC, LING, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 1.0 PSYC credit above PSYC 1F90.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 3P98.

NEUR 3P67

Bases of Neuropsychopharmacology

(also offered as PSYC 3P67)

Mechanisms of drug action and classification of psychoactive agents. Elements of pharmacokinetics (drug absorption, distribution, metabolism and elimination) and a review of the major groups of psychoactive agents including hypnotics, analgesics, anxiolytics, antidepressants, psychostimulants and neuroleptics emphasizing mechanisms and consequences of drug action on selected neurotransmitter systems (dopaminergic, cholinergic, serotonergic).

Lectures, seminar, 3 hours per week.

Restriction: open to NEUR, CHSC, HLSC, PSYC (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 3.0 PSYC credit above PSYC 1F90.

Prerequisite: NEUR 2P36 (2F36).

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 3P97.

NEUR 3P81

Neuroscience I

(offered also as PSYC 3P81)

Integrative approach to basic neuroscience including molecular neuroscience, physiology of

excitable cells, neuroembryology, neurocytology, neurohistology, neuroanatomy and cellular electrophysiology. Emphasis on the interdisciplinary nature of the subject including elements of molecular medicine, biology, biophysics and biochemistry.

Lectures, 2 hours per week; lab, 3 hours alternating weeks.

Restriction: open to NEUR Co-op and PSYC Co-op students with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90. Prerequisites: NEUR 2P36 and 2P37 (2F36) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 3F81.

NEUR 3P82

Neuroscience II

(offered also as PSYC 3P82)

Integrative approach to neurophysiology of major brain systems of the spinal cord, medulla, brain stem and mesencephalon, hypothalamus, limbic system and basal ganglia. Introduction to behavioral neuroscience, affective neuroscience, and cognitive neuroscience. Consideration of a number of classic biomedical disciplines including neurophysiology, neuropharmacology, electrophysiology, neurochemistry, neuropsychiatry, neurology and neuropathology.

Lectures, 2 hours per week; lab, 3 hours alternating weeks.

Restriction: NEUR Co-op and PSYC Co-op Students with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: NEUR 3P81.

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 3F81.

NEUR 3P90

Investigative Neurobiology

(also offered as BIOL 3P90)

Methods used in neurobiology and neurophysiology. Electro-physiological techniques, including intracellular and extracellular recording from nerve cells and muscle, and on theory and techniques for electrophysiological data acquisition. Other topics include intracellular staining, immunocytochemistry and assay procedures.

Lectures, 2 hours per week; lab, 3 hours per week.

Restriction: open to NEUR, BIOL (single or combined), BIOL (Honours)/BEd (Intermediate/Senior), BCHM, BMED, BTEC and OEVI majors until date specified in registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or PSYC 2P36 and 2P37 (2F36).

Note: BIOL 3P34 is strongly recommended for students who have not taken PSYC 2P36 and 2P37 (2F36).

Completion of this course will replace previ-

ous assigned grade and credit obtained in NEUR (BIOL) 3P84.

NEUR 4F90

Honours Thesis

Each student will undertake a limited research project under faculty supervision.

Restriction: open to NEUR majors with approval to year 4 (honours).

Note: to be taken in conjunction with NEUR 4F91. Submission and oral defence of thesis is required.

NEUR 4F91

Literature Research and Seminar

Each student will undertake a detailed study of the scientific literature relevant to the topic of the honours thesis.

Restriction: open to NEUR majors with approval to year 4 (honours).

Note: to be taken in conjunction with NEUR 4F90. The review will be included in the thesis and will be presented as a seminar.

NEUR 4F92

Library Research Essays

Each student will be required to carry out two detailed studies of the scientific literature under faculty supervision.

Restriction: open to NEUR majors with approval to year 4 (honours).

Note: for students not registered for NEUR 4F90 and 4F91. The results of the studies will be presented in major essays and presented as formal seminars. One research topic is to be completed each term.

NEUR 4P84

Special Topics in Neuropsychology, Physiological and Comparative Psychology I
(also offered as PSYC 4P84)

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to NEUR and PSYC (single or combined) majors with a minimum of 13.5 credits until date specified in Registration guide.

Prerequisite: NEUR 2P36 (2F36).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 4V86-4V89.

NEUR 4P85

Special Topics in Neuropsychology, Physiological and Comparative Psychology II
(also offered as PSYC 4P85)

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to NEUR and PSYC (single or combined) majors with a minimum of 13.5 credits until date specified in Registration guide.

Prerequisite: NEUR 3P26 (2F36).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

Completion of this course will replace previous assigned grade and credit obtained in NEUR (PSYC) 4V86-4V89.

CO-OP COURSES

NEUR 0N01

Work Placement I

First Co-op work placement (4 months) with an approved employer.

Restriction: open to NEUR Co-op students.

NEUR 0N02

Work Placement II

Second Co-op work placement (4 months) with an approved employer.

Restriction: open to NEUR Co-op students.

NEUR 0N03

Work Placement III

Third Co-op work placement (4 months) with an approved employer.

Restriction: open to NEUR Co-op students.

NEUR 0N04

Work Placement IV

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to NEUR Co-op students.

NEUR 0N05

Work Placement V

Optional Co-op placement (4 months) with an approved employer.

Nursing

Chair

Lynn Rempel

Associate Professors

Lynn Rempel, Linda Ritchie

Assistant Professors

Heather Lee Kilty, Lynn McCleary, Dawn Prentice

Lecturers

Janet Matthews, Melanie Stansfield, Karyn Taplay

Nursing Practicum Co-ordinator

Sandra Micsinszki

Nursing Learning Resource Centre Co-ordinator

Elizabeth Horsley

Undergraduate Program Co-ordinator

Sandra Micsinszki

General Information

Administrative Assistant

Sally Lewis

905-688-5550, extension 4660
Shaver Building Room 300
<http://www.brocku.ca/nursing>

The four year Honours Bachelor of Science in Nursing (BScN) degree is offered in collaboration with Loyalist College. Students at the Loyalist College site will complete their first and second years there, moving to Brock University for the third and fourth years of the program. The program must be completed within 6 years. Students at the Brock site will remain at Brock University for the four years of the program. Graduates will be eligible to write the provincial registration examinations.

The BScN Degree Completion Program is a limited enrolment program designed for registered nurses wanting to obtain a BScN degree. The program normally requires successful completion of a minimum of ten Brock credits to be completed within six years.

It is the responsibility of all Nursing Students to adhere to the Nursing Department's Ethical and Professional Code of Conduct. Information may be obtained through the Department.

Admissions

1. Admission to the BScN Degree Completion Program requires successful completion of a three-year diploma in nursing (or equivalent) with a minimum 70 percent overall average and registration to practice as a registered nurse from the College of Nurses of Ontario.

2. New applications to the BScN program are accepted in year 1. The application form (Declare or Change Major) is available at <http://www.brocku.ca/registrar/forms/index.html> or at the Registrar's Office. The form must be completed and returned to the Registrar's Office by May 1st. The BScN is a limited enrolment program. Admission is not guaranteed by attainment of the minimum requirements.

Program Notes

1. Students wishing to proceed to year 2 as a Nursing major must have achieved a minimum 65 percent overall average.

2. Failure to succeed in any two practicum courses will result in dismissal from the program.

3. Students require current CPR (BCLS or Level C) certification and annual re-certification which must be valid during the clinical placement period.

4. Proof of Immunizations is due prior to registration for clinical courses. Immunization screening required: Measles, Mumps, Rubella; Varicella (Chicken Pox); Hepatitis B; Tetanus/Diphtheria/Pertussis; Tuberculosis.

5. Police check for criminal activity may be required at the students expense.

6. A student who has not registered for clinical courses for one year or longer will be required to pass a practical exam prior to registering for clinical courses. If a student fails the exam, the student must repeat the last attempted or completed clinical course.

7. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Bachelor of Science in Nursing Program

Years 1 and 2 at Loyalist College

Year 1

- NURS 1000 Nursing Lab 1
- NURS 1001 Nursing: The Canadian Context
- NURS 1002 Nursing and Health Promotion
- NURS 1003 Health Assessment
- NURS 1004 Experiencing Illness and Hospitalization
- NURS 1005 Nursing Practice: Experiencing Illness and Hospitalization
- NURS 1006 Pathophysiology
- ANAT 1001 Human Anatomy and Physiology
- COMM 1014 Self and Others
- NUTR 1000 Nutrition
- PHAR 1001 Pharmacology
- PSYC 1008 Lifespan Development

Year 2

- NURS 2000 Self Perception and Interaction
- NURS 2001 Nursing Care of the Young Family
- NURS 2002 Nursing Practice: Nursing Care of the Young Family
- NURS 2003 Understanding Nursing Research
- NURS 2004 Care of the Acutely Ill Client
- NURS 2005 Nursing Practice: Care of the Acutely Ill Client
- PSYC 2004 Psychology
- SOCI 2003 Sociology

Year 3

- NUSC 3P08, 3P12, 3P14, 3P20, 3P50, 3P90, 3P92, 3P94 and 4P75
- one Humanities context credit

Year 4

- NUSC 4F96, 4F98, 4P20, 4P40, 4P50, 4P60 and 4P92

Years 1 and 2 at Brock University

Year 1

- NUSC 1P10, 1P12, 1P14 and 1P16
- BIOL 1F90
- PEKN 1P90 and 2P09
- PSYC 1F90

Year 2

- NUSC 2P10, 2P12, 2P14, 2P16, 2P30 and 3P70
- CHSC 2P91, 3P19 and 3P97
- SOCI 1P80 or WISE 2P00

Year 3

- NUSC 3P08, 3P12, 3P14, 3P20, 3P50, 3P90, 3P92, 3P94 and 4P75
- one Humanities context credit

Year 4

•NUSC 4F96, 4F98, 4P20, 4P40, 4P50, 4P60 and 4P92

Degree Completion Program

- NUSC 3P08, 3P12, 3P20, 3P25, 3P40, 3P50, 3P70, 4F94, 4P20, 4P30, 4P40, 4P60, 4P75 and 4P92 (see program note 1)
- CHSC 2P21
- one credit from CHSC 2P91, 3P19, 3P97
- one elective credit (one Humanities context or Social Sciences context credit is recommended)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

NUSC 1P10

Professional and Therapeutic Communications I

Concepts, principles and the practice of professional communication. Factors influencing the perception and interpretation of communication, including the use of self. *Lectures, seminar, selected laboratory sessions, 4 hours per week.*

Restriction: open to NUSC majors.

Co-requisite: NUSC 1P12.

NUSC 1P12

Nursing and Health Promotion: The Canadian Context

Philosophical and theoretical concepts of health and nursing, including determinants of health, primary health care, standards of nursing practice, and the Canadian health care system. *Lectures, seminar, selected laboratory sessions, 3 hours per week.*

Restriction: open to NUSC majors.

Co-requisite: NUSC 1P10.

NUSC 1P14

Nursing Theory: Experiencing Illness and Hospitalization

Concepts in health, wellness, illness and nursing practice related to caring for clients experiencing illness and hospitalization.

Lectures, seminar, selected laboratory sessions, 3 hours per week.

Restriction: open to NUSC majors.

Prerequisite: NUSC 1P10 and 1P12.

Co-requisite: NUSC 1P16.

NUSC 1P16

Nursing Practice: Experiencing Illness and Hospitalization

Practice, application and integration of skills and theory in relation to clients experiencing illness and hospitalization.

15 hours per week, selected laboratory sessions.

Restriction: open to NUSC majors.

Prerequisite: NUSC 1P10 and 1P12.

Co-requisite: NUSC 1P14.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 2P10

Nursing Theory: Nursing Care of the Young Family

Nursing models and interdisciplinary theories, principles and concepts related to caring for children and the childbearing and childrearing family.

Lectures, seminar, selected laboratory sessions, 3 hours per week.

Restriction: open to NUSC majors.

Co-requisite: NUSC 2P12.

NUSC 2P12

Nursing Practice: Nursing Care of the Young Family

Practice, application and integration of skills and theory in relation to caring for children and the childbearing and childrearing family.

15 hours per week, selected laboratory sessions.

Restriction: open to NUSC majors.

Co-requisite: NUSC 2P10.

Note: proof of immunization and CPR required. Transportation to clinical placement is a student responsibility. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration.

NUSC 2P14

Nursing Theory: Care of the Acutely Ill Client

Nursing models and interdisciplinary theories, principles and concepts related to caring for the acutely ill client and their families.

Lectures, seminar, selected laboratory sessions, 3

hours per week.

Restriction: open to NUSC majors.

Co-requisite: NUSC 2P16.

NUSC 2P16

Nursing Practice: Care of the Acutely Ill Client

Practice, application and integration of skills and theory in relation to caring for the acutely ill client and their families.

15 hours per week, selected laboratory sessions.

Restriction: open to NUSC majors.

Co-requisite: NUSC 2P14.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 2P30

Health Assessment I

Principles and practice related to comprehensive, holistic health assessments conducted within the framework of primary health care and nursing theoretical perspectives.

Lectures, seminar, selected laboratory sessions, 3 hours per week.

Restriction: open to NUSC majors.

Prerequisite: NUSC 1P16.

Completion of this course will replace previous assigned grade in NUSC 2P94.

NUSC 3P08

Quantitative Analysis

Quantitative means of understanding and interpreting data in nursing research.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

Completion of this course will replace previous assigned grade in MATH 1P98.

NUSC 3P12

Experiencing Chronicity

Nursing models and selected interdisciplinary theories, underlying foundations, principles and concepts related to chronicity and selected chronic conditions.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94.

Co-requisite: NUSC 3P90.

Note: students enrolled in the Degree Completion program or who have taken the first two years at Loyalist College are permitted to register without the prerequisite.

Completion of this course will replace previous assigned grade in NUSC 3P10.

NUSC 3P14

Promoting Mental Health

Nursing models and selected interdisciplinary theories, underlying foundations, principles and concepts related to adults, older adults, and families experiencing mental health challenges. *Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94.

Co-requisite: NUSC 3P92.

Note: students enrolled in the Degree Completion program or who have taken the first two years at Loyalist College are permitted to register without the prerequisite.

NUSC 3P20

Nursing Ethics

Ethical and legal principles, models and theories. Application to professional practice.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94.

NUSC 3P25

Pathophysiology

Physiologic mechanisms and functions altered by disease processes. General concepts of disease, selected systems, etiologies, pathogenesis and related interventions from a primary health care perspective.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

NUSC 3P32

Directed Readings

Variable subject matter designed in consultation with faculty member directing the course.

Restriction: permission of the Chair.

NUSC 3P40

Professional and Therapeutic Communications II

Communication theories, processes, skills and research in a variety of practice settings and roles with individuals and groups. Transcultural communication models and tools. Power and gender issues. Media and political activism.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

NUSC 3P50

Health Education

Principles of teaching and learning and their impact on knowledge, awareness, attitudes, skills and behaviour. Assessment, planning, implementation and evaluation processes in development of a variety of health teaching strategies.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors and permission of the Department.

Prerequisite: NUSC 2P94.

NUSC 3P70

Nursing Research

Critical appraisal of quantitative and qualitative

nursing research to determine the evidence base for practice.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

NUSC 3P90

Nursing Practicum: Experiencing Chronicity
Practice, application and integration of skills and theory in relation to individuals and families experiencing chronic conditions.

15 hours per week, selected laboratory sessions.

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94.

Co-requisite: NUSC 3P12.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 3P92

Nursing Practicum: Promoting Mental Health
Practice, application and integration of skills and theory in relation to adults, older adults, and families experiencing mental health challenges.

15 hours per week, selected laboratory sessions.

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94.

Co-requisite: NUSC 3P14.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 3P94

Nursing Practicum: Intersession

Practice, application, and integration of skills and theory in a variety of health care settings. *30 hours per week for four weeks, selected laboratory sessions.*

Restriction: open to NUSC majors.

Prerequisites: NUSC 3P90 and 3P92.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 4F90

Nursing Practicum

Clinical placement providing the opportunity for the practice, application and integration of nursing skills and theory. Placement selected from a variety of health care settings.

Minimum: 100 hours, maximum 16 hours per week.

Restriction: open to NUSC majors and permission of the Department.

Prerequisite: NUSC 3P12.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 4F94

Nursing Practicum: Specialized

Practice, application and integration of skills and theory in a variety of health care settings. *15 hours per week, selected laboratory sessions.*

Restriction: open to NUSC majors and permission of the Department.

Prerequisite: NUSC 3P12.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 4F96

Nursing Practicum: Pre-graduation I

Practice, application and integration of skills and theory in a variety of health care settings.

32 hours per week for six weeks.

Restriction: open to NUSC majors with a minimum of 18.0 credits.

Prerequisite: NUSC 4P92.

Note: proof of immunization and CPR required. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 4F98

Nursing Practicum: Pre-graduation II

Practice, application and integration of skills and theory in a variety of health care settings.

32 hours per week for six weeks.

Restriction: open to NUSC majors.

Prerequisite: NUSC 4F96.

Note: proof of immunization and CPR. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility.

NUSC 4P20

Leadership in Nursing and Management

Current issues, opportunities and challenges for nursing leadership in different nursing, community and organizational venues.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors and permission of the Department.

Prerequisite: NUSC 2P94.

NUSC 4P30

Health Assessment II

Basic principles and techniques of a comprehensive, holistic health assessment within a framework of primary health care and nursing theoretical perspectives, focusing on the well adult with normal aging modifications.

Lectures, seminar, selected laboratory sessions, 3 hours per week.

Restriction: open to NUSC majors.

NUSC 4P32

Advanced Directed Readings

Variable subject matter designed in consultation with faculty member directing the course.

Restriction: permission of the Chair.

NUSC 4P40

Community Health Nursing

Community as client emphasizing primary health care principles, assessment and health promotion with individuals, children and families, and population groups.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors and permission of the Department.

Prerequisites: NUSC 3P12 and 3P14.

Co-requisite: NUSC 4P92.

NUSC 4P50

Applied Nursing Research

Application of principles of research design, data collection, data analysis, and dissemination through research projects.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94 and 3P70.

NUSC 4P60

Trends and Issues in Professional Nursing

Historical to current overviews of significant trends and issues impacting the profession of nursing. Image, burnout, environment, roles, culture, politics and economics affecting client and nursing care.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors and permission of the Department.

Prerequisite: NUSC 3P12 and 3P14.

NUSC 4P75

Diversity and Nursing

Transcultural and interdisciplinary conceptual theories and models for providing culturally competent nursing care in diverse societal and health care settings with diverse clients. Examination of knowledge, issues, beliefs and behaviours related to culture, ethnicity, and health.

Lectures, seminar, 3 hours per week.

Restriction: open to NUSC majors and

permission of the Department.

Prerequisite: NUSC 2P94.

NUSC 4P92

Nursing Practicum: Community Health Nursing

Practice, application and integration of skills and theory in community settings.

15 hours per week, selected laboratory sessions.

Restriction: open to NUSC majors and permission of the Department.

Prerequisites: NUSC 3P94 and 4P40.

Note: proof of immunization, CPR and criminal reference check required. Brock/Loyalist students must take NUSC 4P40 concurrently. All clinical course requirements are due 2 weeks prior to the first day of classes. Failure to comply with due date will result in a late fee and/or deregistration. Transportation to clinical placement is a student responsibility. Clinical assessment fee required.

Oenology and Viticulture

This program is offered through the Department of Biological Sciences

Chair

Gary Pickering
TBA (as of July 1, 2009)

Instructors/Senior Demonstrators

David Hulley, Kevin W. Ker, Stephanie Martin, Jamie Quai, Christopher Waters, Linda Bramble

Senior Laboratory Demonstrator

Gail Higenell

Participating Faculty

Carman Cullen, Daryl Dagesse, Helen Fisher, Debra Inglis, Wendy McFadden-Smith, Gary Pickering, Andrew G. Reynolds, Anthony B. Shaw

Co-operating Faculty from:

Biological Sciences, Chemistry, Computer Science, Earth Sciences, Geography, Mathematics, Marketing, International Business and Strategy, and Physics

Director, Co-op Programs Office

Cindy Dunne

Co-ordinator for Continuing Education

Barbara Tatarnic

Academic Adviser

Gail Higenell

General Information

Administrative Assistant

Beulah Alexander

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Mackenzie Chown MC F204
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A four-year Honours Co-operative program leading to a Bachelor of Science in Oenology and Viticulture is designed to meet the growing needs of the grape, grape juice and wine industries of cool climate regions. The aim of the program is to provide a comprehensive scientific education combined with both hands-on and industrial experience in Oenology and Viticulture, along with exposure to marketing, tourism and wine appreciation. Since "wine begins in the field and ends in the glass", our graduates will be trained to work in the vineyard

and the winery or may become owners and operators of vineyards and wineries. The program encompasses the scientific disciplines pertaining to the grape and wine industry such as sensory science, biochemistry, biotechnology, chemistry, microbiology, genetics, cell and molecular biology, plant physiology and environmental biology. The program can enable our graduates to pursue higher education in any of these disciplines.

Industry experience is considered to be an essential part of our students' preparation. In order to gain that experience all students are required to participate in Co-op work terms. Students will participate in a minimum of three work terms as indicated in the program of study. Each student is required to do at least one work term in a vineyard setting and one at a winery during the harvest and crush.

These work terms will be paid positions providing a meaningful, academically relevant employment experience within the grape and wine industry. The primary goal of the Oenology and Viticulture Co-op Program is to arrange and monitor placements within the Canadian industry. However, suitable international work terms may be used to meet the program requirements. In addition to the current fees for courses in academic study terms, students are assessed an administrative fee (see the Schedule of Fees).

A student must register for the appropriate work term before starting employment. Each student's performance will be evaluated using a combination of employer questionnaires, journals and work term reports. Unsatisfactory work term evaluations may result in a student being asked to withdraw from the program.

Work terms will normally be done as indicated in the Program of Studies but other sequences are possible. For more information consult the Director of Co-op Programs, Academic Adviser or the Co-operative Programs section of the calendar.

The program of Oenology and Viticulture is associated for the purposes of research with the Cool Climate Oenology and Viticulture Institute (CCOVI).

Program Notes

1. Students are required to complete three Co-op work terms. Students must contact the Director of Co-op Programs regarding these courses.

2. ECON 1P91 and 1P92 are strongly recommended as the Social Sciences context credit.

3. Because of the Fall term crush placement, all academic credits in year 4 should be taken in the Winter and Spring terms. Students participating in a crush placement may not register for other courses without approval of the Director of Co-op Programs.

4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program (Co-op only)

Year 1

- OEVI 1P20
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- PHYS 1P23 or 1P93
- one Humanities context credit or Social Sciences context credit (see program note 2)

Year 2

- OEVI 0N01 or 0N02
- OEVI 2P45 and 2P99
- BIOL 2F01 and 2P96
- CHEM 2P20, 2P21 and 2P42
- SCIE 0N90
- the Humanities context credit or Social Sciences context credit not taken in year 1

Spring/Summer Sessions:

- OEVI 0N31

Year 3

- OEVI 0N01 or 0N02 (not taken in year 2)
- OEVI 3P21, 3P25, 3P98 and 4P20
- BCHM 3P01
- BIOL 2P98
- BTEC 3P50
- one of OEVI 2P97, BIOL 2P94, 3P43, 3P51, 3P64, 3P91, 3P96, BTEC 2P09, 2P63, 3P62, 3P93
- one elective credit

Spring/Summer Sessions:

- OEVI 0N32 and OEVI 4P30

Year 4

Fall Term:

- OEVI 0N33

Winter Term/Spring/Summer Sessions:
•OEVI 4P30 (if not taken in year 3) and 4P92
•OEVI 4F90 and 4F91, or OEVI 4F92 and one elective credit
•CHEM 3P41
•one of OEVI 2P97, 3P12, BIOL 3P43, 3P51, 3P64, 3P91, 3P96, 4P03, 4P06, 4P57, 4P58, 4P64, BTEC 3P09, 3P62, 3P93, 4P08
•one elective credit (see program notes 3 and 4)

Certificate in Grape and Wine Technology

Eligibility requirements:

For those individuals having completed an undergraduate degree in biological sciences or chemistry or some related area (biotechnology, biochemistry)

or

For those individuals admissible to the University with relevant work experience in the grape and wine industry.

See "Requirements for a Certificate" under Academic Regulations concerning transfer credits and letters of permission.

Students must maintain a minimum 70 percent average in the required and additional courses listed below to continue in the certificate program.

The certificate is awarded upon completion of the following courses with a minimum 70 percent overall average:

- OEVI 1P20, 2P45, 2P99, 3P21, 3P25, 3P98, 4P20 and 4P30
- one credit from OEVI 2P97, 3P12, 4P92, BCHM, BIOL, BTEC or CHEM courses numbered 2(*alpha*)00 or above

Minor in Oenology and Viticulture

Students in other disciplines may obtain a minor in Oenology and Viticulture within their degree program by completing the following courses with a minimum of 70 percent average:

- OEVI 1P20, 2P45, 2P99, 3P21, 3P25, 3P98, 4P20 and 4P30

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

OEVI 1P20

Introduction to Wines

Survey of wine producing regions of the world; principles of wine production. Topics include grape growing, fermentation and stabilization of wine, application of sensory science to the evaluation of wine quality, health aspects, classification, regulation and marketing of wine.
Lectures, lab, 4 hours per week.

Note: materials fee required. Students must be a minimum of 18 years of age.

OEVI 2P45

Cultural Practices

Site selection, pruning, training, canopy management, crop control, mechanization, soil management and vineyard establishment.
Lectures, lab, 6 hours per week; field trips.

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisite: OEVI 2P99.

Note: field trip fee required. Students must be a minimum of 18 years of age.

OEVI 2P97

Introduction to Soil Science

(also offered as GEOG 2P97)

Physical, chemical, biological, and hydrological processes within the soil system, their interrelationships and relationships between these processes and the potential use of the soil. Emphasis on soils in Southern Ontario and individual student analysis of those soils.
Lectures, lab, 5 hours per week.

Restriction: open to OEVI, GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 1F91 or permission of the instructor.

OEVI 2P99

Grapevine Biology

Varieties, rootstocks, clones, physiology and biochemistry of grapevine growth and fruit maturation; soil science, winter hardiness; grapevine propagation.

Lectures, lab 6 hours per week.

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisite: BIOL 1F90 and CHEM 1F92.

Note: field trip fee required. Students must be a minimum of 18 years of age.

OEVI 3P12

Climate and Winegrape Production

(also offered as GEOG 3P12)

Climatological aspects of winegrape production emphasizing selected wine regions of the world. Effects of climate, weather-related diseases, topography, soil and viticultural practices on winegrape production.

Lectures, lab, field work, 4 hours per week.

Restriction: open to OEVI, GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: GEOG 2P04 or permission of the instructor.

Note: students enrolled in the OEVI program and OEVI certificate students are permitted to register without the prerequisite.

OEVI 3P21

Wine Processing and Equipment

Theory and operation of grape and wine processing equipment in commercial wineries, including crushers, presses, filters, pumps, tanks; winery layout; sanitation and waste water management.

Lectures, lab, 6 hours per week.

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisites: OEVI 3P25 and CHEM 1F92; PHYS 1P23 or IP93.

Note: materials fee and field trip fee required. The laboratory section will include fermentations to demonstrate the equipment being used. Students must be a minimum of 18 years of age.

* OEVI 3P25

Wine Chemistry

(also offered as BCHM 3P25)

Sugars, acids, nitrogenous compounds in grape juice; antimicrobial and antioxidant activity of sulphur dioxide; must adjustments; biochemistry of alcoholic and malo-lactic fermentation; bitartrate and protein stability; fining agents; wine aging and phenolic oxidation. Laboratories include juice/wine chemical analysis, fermentation and stability tests.

Lectures, lab, 6 hours per week.

Restriction: open to OEVI, BCHM, BIOL (single or combined), BTEB and BTEC majors and OEVI certificate students or permission of the instructor.

Prerequisites: BIOL 2F01, CHEM 2P20 and 2P42.

Note: materials fee required. Students must be a minimum of 18 years of age. It is strongly recommended that students take BCHM 3P01 prior to or concurrent with OEVI 3P25.

* OEVI 3P98

Wine Microbiology

(also offered as BIOL 3P98)

Identification and enumeration of indigenous micro-organisms in grape must. Alcoholic fermentation; metabolism of nitrogen compounds and organic acids; production of sulphur compounds; killer yeasts; malo-lactic fermentation; wine spoilage micro-organisms; genetic improvement of wine yeasts.

Lectures, lab, 6 hours per week.

Restriction: open to OEVI, BCHM, BIOL (single or combined) and BTEC majors and OEVI certificate students or permission of the instructor.

Prerequisites: OEVI 3P25, BCHM 3P01, BIOL 2F01 and 2P98.

Note: students must be a minimum of 18 years of age. It is strongly recommended that students take BIOL 3P50 prior to or concurrent with OEVI 3P98. Materials fee required.

OEVI 4F90

Research Project

Experimental research carried out under faculty supervision.

Restriction: open to OEVI majors with approval to year 4 (honours) and permission of the Chair.

Note: to be taken concurrently with OEVI 4F91.

OEVI 4F91

Thesis

Thesis will incorporate results of the research project and will form the basis of a seminar presented by the student.

Restriction: open to OEVI majors with approval to year 4 (honours) and permission of the Chair.

Note: to be taken concurrently with OEVI 4F90.

OEVI 4F92

Library Research Essays

Students will carry out two detailed studies of the scientific literature under faculty supervision.

Restriction: open to OEVI majors with approval to year 4 (honours) and permission of the Co-ordinator.

Note: for students not registered in OEVI 4F90

and 4F91. The results of the studies will be presented in major essays and presented as formal seminars. One research topic is to be completed each term.

OEVI 4P20

Sensory Evaluation of Wine

Measurement techniques used in the sensory evaluation of wine, physiology of taste and olfaction, chemistry of aroma and flavour, origins of off-odours in wines and readings in current topics in sensory evaluation and sensory science.

Lectures, lab, 5 hours per week.

Restriction: open to OEVI majors and certificate students or permission of the instructor.

Prerequisite: MATH 1P98.

Note: materials fee required. Students must be a minimum of 18 years of age. It is strongly recommended that OEVI 3P25 be taken prior to OEVI 4P20.

* OEVI 4P30

Grape Pest Management

(also offered as BIOL 4P30)

Biology and dynamics of grapevine pest activity - insects, diseases, weeds, nematodes, vertebrates. Integrated pest management approach looking at all aspects of control chemical, biological, cultural. Application techniques, pest identification and monitoring.

Lectures, lab, 6 hours per week.

Restriction: open to OEVI, BCHM, BIOL and BTEC majors and OEVI certificate students or permission of the instructor.

Prerequisite: OEVI 2P99.

Note: field trip fee required.

* OEVI 4P92

Wine Marketing

(also offered as MKTG 4P92)

Understanding the wine consumer, segmentation, positioning, marketing mix, marketing research, marketing strategy, domestic and international wine marketing issues.

Lectures, case discussion, 3 hours per week.

Restriction: open to OEVI majors and certificate students or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P52, OEVI 4V92 and SPMA 3P65.

OEVI 4V90-4V99

Special Topics in Oenology and Viticulture

Selected issues in Oenology and Viticulture on the basis of faculty expertise.

Restriction: open to OEVI majors.

Note: under certain circumstances a student may carry out, under faculty supervision a detailed study of the scientific literature pertinent to a specific topic. The results of this

study will be presented as a major essay and as a formal seminar.

NON-CREDIT COURSES

OEVI 0N01

Wine Appreciation I - Exploring Varietals

Special interest course focusing on tasting wines from Canada and around the world. Learn and improve your skills and be able to distinguish among wine varieties including Chardonnay, Riesling, Merlot, Pinot Noir and Cabernet. Exploration of factors that affect wine quality. Restriction: permission of the Co-ordinator for Continuing Education.

Note: materials fee required. Students must be a minimum of 18 years of age. Available to the general public. Admission requires application through the Co-ordinator for Continuing Education. OEVI majors may take this course in year 2 or year 3.

OEVI 0N02

Introduction to the Wines of Ontario

Special interest course focusing on the wines of Ontario: how they are grown and made. Become familiar with VQA wines and the viticultural areas in which they are grown.

Restriction: permission of the Co-ordinator for Continuing Education.

Note: materials fee required. Students must be a minimum of 18 years of age. Available to the general public. Admission requires application through the Co-ordinator for Continuing Education. OEVI majors may take this course in year 2 or year 3. Includes the Wine Council of Ontario Certification.

OEVI 0N03

Wine Appreciation II - Exploring Wine Regions of the World

Deepening and refining wine tasting skills as well as exploring the major wine regions of the world. Discover wines from historic Old World regions as well as emerging New World wine regions including South Africa and New Zealand.

Prerequisite: OEVI 0N01 or permission of the Co-ordinator for Continuing Education.

Note: materials fee required. Students must be a minimum of 18 years of age. Available to the general public. Admission requires application through the Co-ordinator for Continuing Education.

OEVI 0N04

Wine Sales and Service

Insight into the wine consumer, practice the dimensions of quality service and learn how to 'sell' wine through facilitation rather than a 'hard' sell.

Prerequisite: OEVI 0N02 or permission of the Co-ordinator for Continuing Education.

Note: materials fee required. Students must be

a minimum of 18 years of age. Available to the general public. Admission requires application through the Co-ordinator for Continuing Education. Includes Certificate in Excellence in Wine Sales and Service through the Wine Council of Ontario.

CO-OP COURSES

OEVI 0N31

Co-op Work Term

Work experience in viticulture.

Restriction: open to OEVI majors and permission of the Director of Co-op Programs regarding permission to register.

OEVI 0N32

Co-op Work Term II

Work experience in an appropriate sector of the Grape and Wine industry.

Restriction: open to OEVI majors and permission of the Director of Co-op Programs regarding permission to register.

OEVI 0N33

Co-op Work Term III

Work experience at a winery during the harvest and crush.

Restriction: open to OEVI majors and permission of the Director of Co-op Programs regarding permission to register.

OEVI 0N34

Co-op Work Term IV

Optional work experience in an appropriate sector of the Grape and Wine industry.

Restriction: open to OEVI majors and permission of the Director of Co-op Programs regarding permission to register.

OEVI 0N35

Co-op Work Term V

Optional work experience in an appropriate sector of the Grape and Wine industry.

Restriction: open to OEVI majors and permission of the Director of Co-op Programs regarding permission to register.

Philosophy

Chair

Richard S. G. Brown
TBA (as of July 1, 2009)

Professor Emeriti

D. L. Goicoechea, J. R. A. Mayer

Professors

Murray L. Miles, R. Raj Singh

Associate Professors

Michael Berman, Richard S. G. Brown, Wing-Cheuk Chan, Christine Daigle

Assistant Professors

Athena Colman, Rohit Dalvi, Rajiv Kaushik

Undergraduate Officer

Rajiv Kaushik

General Information

Administrative Assistant

Irene Cherrington

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Philosophy, defined as the pursuit of wisdom, encompasses the exploration of the nature of reality, consciousness, values, knowledge, reason, argument and evidence. Students study not only the primary texts of the Western philosophical tradition, but also major texts of Indian and Chinese thought. Students are encouraged to investigate critically and dialectically their own views and values.

Language Requirement for Humanities Majors

Students in the Department of Philosophy are required to complete one credit in a language other than English (classical or modern). Where half-credit courses are used to satisfy the requirements, both half-credits must be in the same language.

Program Notes

1. All courses numbered 1F90 through 1F94 are introductory PHIL courses. Though different in content and emphasis, PHIL 1F91, 1F93 and 1F94 are no more advanced than 1F90. Normally a student will not be permitted to take more than one introductory course.

2. Students may take courses from PHIL 2P00, 2P01, 2P02, 2P03, 2P12, 2P13, 2P17 to fulfill this requirement.

3. Some year 4 courses will be offered conjointly with correspondingly numbered year 5 (graduate level) courses.

4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- One of PHIL 1F90, 1F91, 1F93, 1F94 (see program note 1)
- one Sciences context credit
- one Social Sciences context credit
- two elective credits (see language requirement)

Year 2

- PHIL 2P00 or 2P01
- PHIL 2P02 or 2P03
- one of PHIL 2P12, 2P13, 2P17
- one and one-half PHIL credits (see program note 2)
- two elective credits, one of which must be approved by the Department

Year 3

- Three PHIL credits
- two elective credits, one of which must be approved by the Department

Year 4

- PHIL 4P20 or 4P21
- two and one-half PHIL credits numbered 3(alpha)90 or above
- two elective credits, of which one must be approved by the Department

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Students may take a combined major in Philosophy and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

- One of PHIL 1F90, 1F91, 1F93, 1F94 (see program note 1)
- PHIL 2P00 or 2P01
- PHIL 2P02 or 2P03
- one of PHIL 2P12, 2P13, 2P17
- PHIL 4P20 or 4P21
- one and one-half PHIL credits (see program note 2)
- two and one-half PHIL credits numbered 3(alpha)90 or above

Pass

- One of PHIL 1F90, 1F91, 1F93, 1F94 (see program note 1)
- PHIL 2P00 or 2P01
- PHIL 2P02 or 2P03
- one of PHIL 2P12, 2P13, 2P17
- two and one-half PHIL credits (see program notes 2 and 4)

Minor Program

Minor in Philosophy

Students in other disciplines can obtain a Minor in Philosophy within their degree program by completing the following courses with a minimum 60 percent overall average:

- One of PHIL 1F90, 1F91, 1F93, 1F94
- three PHIL credits numbered 2(alpha)00 or above

Minor in Professional Ethics

Students in other disciplines can obtain a Minor in Professional Ethics within their degree program by completing the following courses with a minimum 60 percent overall average:

- One of PHIL 1F90, 1F91, 1F93, 1F94
- PHIL 2P09
- two and one-half credits from PHIL 2P82, 2P93, 2P95, 2P99, 2V85-89, 3P10, 3P80

Master of Arts (MA) Program

A Master's program is offered, focusing on two areas: recent and contemporary European thought and Asian (especially Indian) thought. Candidates should have an Honours BA in philosophy; those with a Pass BA in philosophy or a degree in another discipline will be required to take additional courses. Students may choose either to complete two credits and write a thesis or to complete four credits and write a major essay.

Graduate credits are to be obtained by completing courses designated at the 5(alpha)00 level. A course previously taken for 4(alpha)00 level credit may not be retaken for graduate credit.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

- # Indicates a cross listed course
- * Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

PHIL 1F90

Introduction to Philosophy: Philosophical Classics and Contemporary Life

Contemporary problems viewed through a variety of philosophical writings. Students are encouraged to formulate and examine their own beliefs about freedom, knowledge, religion, love and questions of right and wrong.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in PHIL 1F91, 1F93 and 1F94 except with permission of the department.

PHIL 1F91

Introduction to Philosophy: Human Nature

How do we see ourselves- Who are we- What are we- A critical analysis and evaluation of classical and contemporary views of human nature from a variety of philosophical and religious traditions.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in PHIL 1F90, 1F93 and 1F94 except with permission of the department.

PHIL 1F93

Introduction to Philosophy: The Foundations of the Present

An attempt to place the philosophical issues which confront the reflective individual today in their historical context by examining the teachings and arguments which shape our views of such matters as body and soul, life after death, truth and knowledge, faith and moral responsibility.

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in PHIL 1F90, 1F91 and 1F94 except with permission of the department.

PHIL 1F94

Introduction to Philosophy: Problems

Central problems of philosophy as living questions for reflection, dialogue and debate, including: Is the external world really there- Does God exist- Can I really know anything- What is a person- Is everything permissible- Can my life have meaning-

Lectures, seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in PHIL 1F90, 1F91 and 1F93 except with permission of the department.

PHIL 2M90-2M92

Selected Topics in Philosophy

Topics chosen to reflect areas of occasional interest which are not represented in the regular program of studies. Proposals from students are

welcome.

Lectures, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

PHIL 2P00

Pre-Socratics to Plato

Survey of Western philosophy from its birth in the Pre-Socratics (sixth century BC) to Plato.

Lectures, 3 hours per week.

PHIL 2P01

Growth of Greek Philosophy: Aristotle and Beyond

Survey of Western philosophy from Aristotle, the Hellenistic schools (Epicurean, Stoic, Sceptic) to Plotinus (third century AD).

PHIL 2P02

Early Modern Philosophy: The Rationalists

Classical philosophies of Europe in the 17th and 18th centuries as found in the writings of the Continental Rationalists (Descartes, Spinoza and Leibniz).

Lectures, 3 hours per week.

PHIL 2P03

Early Modern Philosophy: The Empiricists

Classical philosophies of England, Ireland and Scotland in the 17th and 18th centuries as found in the writings of the British Empiricists (Locke, Berkeley and Hume).

Lectures, 3 hours per week.

PHIL 2P09

Ethics: Major Ethical Theories and Philosophies of Life

Examines Plato, Aristotle, Kant, Mill and contemporary thinkers.

Lectures, 3 hours per week.

* PHIL 2P12

Indian Philosophy: An Introduction to Hindu Thought

(also offered as INTC 2P12)

Hindu thought beginning with the Vedic myths, through the Upanishads and the Bhagavad Gita to the systems of the Vedanta. Topics include Karma, reincarnation, altered states of consciousness, Maya, the problem of knowledge, the role and nature of God, the theory and practice of yoga.

Lectures, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P12.

* PHIL 2P13

Indian Philosophy: An Introduction to Buddhist Thought

(also offered as INTC 2P13)

Buddhist thought from Prince Siddhartha's enlightenment and subsequent Deer Park Sermon (the basis of Hinayana) through the

Perfection of Wisdom to Madhyamika Buddhism (the Mahayana representative) to Zen (the silence of the Buddha). Topics include Nirvana, non-self, one-hand clapping.
Lectures, 3 hours per week.
Completion of this course will replace previous assigned grade and credit obtained in INTL 2P13.

PHIL 2P14
The Beginnings of Existential Thinking
The sources of both theistic and atheistic lived philosophy in such figures as Kierkegaard and Nietzsche.
Lectures, seminar, 3 hours per week.

PHIL 2P15
The Growth of Existential Thinking
The work of such philosophers as Scheler, Heidegger, Marcel and Sartre.
Lectures, 3 hours per week.

* PHIL 2P17
Introduction to Chinese Philosophy
(also offered as INTC 2P17)
Confucian, Taoist and Chinese Buddhist philosophical traditions examined in conjunction with appropriate texts.
Lectures, 3 hours per week.
Completion of this course will replace previous assigned grade and credit obtained in INTL 2P17.

PHIL 2P18
Introduction to Postmodernism
Origin and development of postmodern thinking with particular reference to the issues of ethics and the role of women. Writers may include Nietzsche, Derrida, Levinas, Irigaray, Kristeva, Cixous and Wyschogrod.
Seminar, 3 hours per week.

* PHIL 2P20
Abrahamic Religious Thought
(also offered as LART 2P20)
Roots of the monotheisms of Judaism, Christianity and Islam: Who and what is God? What is our relationship to God? What are the ethical bases of religion? What is the nature of faith?
Lectures, 3 hours per week.
Prerequisite: one of PHIL 1F90, 1F91, 1F93, 1F94.
Completion of this course will replace previous assigned grade and credit obtained in GBLS 2P20.

PHIL 2P25
Introduction to Logic
Modern deductive logic; the objective is to develop the ability to analyze arguments in order to determine their worth. Arguments will be symbolized in order to clarify their form and to determine their validity or invalidity.
Lectures, 3 hours per week.

PHIL 2P31
History and Philosophy of Education
What does it mean to be an educated person- Examination of systems of educational philosophy in contemporary terms.
Lectures, 3 hours per week.

PHIL 2P82
Business Ethics
(also offered as MGMT 2P82)
Evaluation of the contribution of business practices, institutions and actions to the general human good. Topics include false or misleading advertising, product safety, monopolistic price schemes, effects of pollution, discriminatory hiring policies, the role of shareholders, management, government and the public in determining corporate policy and economic justice.
Lectures, seminar, 3 hours per week.
Restriction: not open to BAcc and BBA majors.
Completion of this course will replace previous assigned grade and credit obtained in ETHC 3P82 or MGMT 3P82.

PHIL 2P91
Philosophical Psychology
Thinkers and the philosophical debates which inform psycho-analytic/psychological theory, including Brentano, Freud, Sartre, Ricoeur, Lacan, as well as more contemporary thinkers such as Nancy, Lacoue-Labarthe.
Lectures, 3 hours per week.
Prerequisite: one PHIL or PSYC credit or permission of the instructor.
Completion of this course will replace previously assigned grade and credit obtained in PHIL 2F93.

* PHIL 2P93
Mass Media and Philosophy
(also offered as INTC 2P93)
Different philosophical reactions to various types of mass media and computer-mediated communication that challenge the traditional concepts of "identity", "freedom", and "human nature", including critical theory (Adorno/Horkheimer), media theory (McLuhan), postmodernism (Baudrillard) and systems theory (Niklas Luhmann).
Lectures, 3 hours per week.

PHIL 2P94
Feminist Philosophy
(also offered as WISE 2P94)
Views of various feminist philosophers focusing on important debates from the analytic and continental traditions.
Lectures, seminar, 3 hours per week.
Prerequisite: one of PHIL 1F90, 1F91, 1F93, 1F94, WISE 1F90.

* PHIL 2P95
Bioethics
(also offered as BIOL 2P95)
Value conflicts and moral dilemmas in biology and medicine. Emphasis on specific case studies in reproductive interventions, medical experimentation, concepts of "health" and "disease", modification of behaviour, lifestyle choices, allocation of scarce or expensive medical resources, and death and dying.
Lectures, seminar, 3 hours per week.
Prerequisite: one PHIL or BIOL credit or permission of the instructor.
Note: may count as an elective, but not as a major credit in an Honours BIOL (single or combined) program.

PHIL 2P96
Philosophy of Human Nature
Major philosophical orientations regarding the concept of humanity across the Western and Eastern traditions. Examination of basic issues involved in reaching a philosophical understanding of human nature and its place in the scheme of things.
Seminar, 3 hours per week.
Prerequisite: one PHIL credit or permission of the instructor.

* PHIL 2P97
Philosophy of Religion
(also offered as LART 2P97)
Traditional issues, such as the proofs for the existence of God, the problem of evil, the relationship of faith to reason and the nature of religious knowledge.
Seminar, 3 hours per week.
Prerequisite: one credit in PHIL or permission of the instructor.

PHIL 2P98
Philosophy in Literature
Philosophical issues in literature, such as creation stories in ancient and contemporary mythology, the nature of human freedom versus externally determining forces, conflicts of values, the encounter of opposing world views.
Lectures, 3 hours per week.
Prerequisite: one credit in PHIL or permission of the instructor.

PHIL 2P99
Gender Ethics and Sexuality
Application of ethics to questions of human sexuality. Topics include sexual values, the semantics of sex, the concepts of the romantic and eternal-feminine, respect for the personhood of women, censorship, pornography, legal enforcement of morality, sex in advertising, prostitution and AIDS.
Lectures, 3 hours per week.
Prerequisite: one PHIL credit or permission of the instructor.

* PHIL 2Q98

The Artistic Experience

(also offered as LART 2Q98 and VISA 2Q98)
Classical theories of art through analysis of painting, photography, video, film, music, and drama examining such concepts as beauty, creativity, artistic intention, perception, interpretation, and the nature and possible role of art.

Lectures, 3 hours per week.

Prerequisite: one PHIL credit or VISA 1Q98 and 1Q99 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2Q98.

PHIL 2V85-2V89

Contemporary Social Issues

Problems arising in the areas of social ethics and public policy. Topics include the morality of deceit, overpopulation, obligations to future generations and the environment, nuclear deterrence, animal liberation, moral enforcement and world hunger. Whenever possible, topics are selected in accordance with student interests.

Lectures, 3 hours per week.

Prerequisite: one credit in PHIL or permission of the instructor.

PHIL 2V96-2V99

Philosophy of Science

Historical introduction to the metaphysical foundations of modern physical science. Concepts of space, time and matter as they evolved from the theories of the pre-Socratics to those of Bohr, Heisenberg and contemporary exponents of quantum mechanics.

Seminar, 3 hours per week.

Prerequisite: one credit in PHIL or permission of the instructor.

PHIL 3M50-3M59

Selected Topics in Philosophy

Selected issues on the basis of faculty expertise.

Seminar, 3 hours per week.

Prerequisite: one credit in PHIL or permission of the instructor.

PHIL 3P01

Theory of Knowledge

Fundamental distinctions in the theory of knowledge, such as knowledge and belief, the empirical and the a priori, analytic/synthetic, scientific versus metaphysical knowledge.

Seminar, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

PHIL 3P02

Metaphysics

Major problems of metaphysics, considering the question of what there is. Topics may include the nature of space and time, the mind-

body relation, substance and property, universals and particulars, causation, identity and personal identity.

Lectures, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

PHIL 3P19

The Rise of Christian Philosophy

Philosophy from the patristic period through Erigena and Anselm up to and including the 12th-century Renaissance.

Lectures, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

* PHIL 3P63

Contemporary Feminist Philosophy

(also offered as WISE 3P63)

Feminist thinkers and the philosophical debates which inform contemporary feminist theory including, but not limited to, questions of race, class, gender/sex, power and post-colonialism. Thinkers include Alcoff, Butler, de Beauvoir, Code, Chodorow, Fraser, Gilligan, Harding, Hartsock, Irigaray, Kristeva, MacKinnon and Spivak.

Prerequisite: PHIL 2P94 or permission of the instructor.

PHIL 3P80

Environmental Philosophy

Ethical and conceptual problems in connection with humanity's relations to nature, in terms of survival and future social organization. What are the costs of progress and development-What kind of ethical responsibilities do we have for future generations and for non-human living creatures- Examination of economic, political, human-ecological and eco-philosophical theories.

Seminar, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

PHIL 3P90

Critical Study of a Classical Philosophy: Plato

In-depth examination of the works of Plato.

Seminar, 3 hours per week.

Prerequisites: PHIL 2P00 or permission of the instructor.

PHIL 3P91

Critical Study of a Classical Philosophy: Aristotle

In-depth examination of the works of Aristotle.

Seminar, 3 hours per week.

Prerequisites: PHIL 2P01 or permission of the instructor.

PHIL 3P92

Hermeneutics

Philosophical theory of interpretation and understanding, with special reference to the

methods employed in the humanities (history, literary criticism); the problems of hermeneutics in the works of such thinkers as Gadamer, Ricoeur, Heidegger and Habermas.

Seminar, 3 hours per week.

Prerequisite: PHIL 2P14, 2P15 or permission of the instructor.

PHIL 3P93

Phenomenology

The work of such philosophers as Husserl, Heidegger, Sartre, Merleau-Ponty, Scheler and others.

Lectures, 3 hours per week.

Prerequisite: PHIL 2P14, 2P15 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in PHIL 3P60.

* PHIL 3P94

Gandhi and Non-Violence

(also offered as INTC 3P94)

Gandhi as an original philosopher contributing to contemporary ontology. Implications of his thought for applied philosophy of personal, social and international reform, especially in light of its encounters with the forces of violence. Universal relevance of his thought to our technological times, and the relation between his ideas and the Indian tradition.

Lectures, 3 hours per week.

Prerequisite: PHIL 2P12, 2P13 or permission of the instructor.

* PHIL 3P95

Taoism

(also offered as INTC 3P95)

Taoist philosophy of the classical period focusing on the *Lao Tzu (Tao Te Ching)* and the *Chuang Tzu*.

Seminar, 3 hours per week.

Prerequisite: PHIL 2P17, one PHIL, INTC, INTL credit or permission of the instructor.

PHIL 3P96

Studies in 19th- and 20th-Century Continental Philosophy I

Critical examination of a key figure of central importance in modern and contemporary philosophy such as Marx, Schopenhauer, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, Foucault, Habermas, Derrida.

Seminar, 3 hours per week.

Prerequisites: one PHIL credit; PHIL 2P14, 2P15 or permission of the instructor.

PHIL 3P97

Studies in 19th- and 20th-Century Continental Philosophy II

Critical examination of a key figure of central

importance in modern and contemporary philosophy such as Marx, Schopenhauer, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, Foucault, Habermas, Derrida.

Seminar, 3 hours per week.

Prerequisites: one PHIL credit; PHIL 2P14, 2P15 or permission of the instructor.

PHIL 3Q90

Consciousness and Society

(also offered as PSYC 3Q90)

Psychodynamic approaches to modern clinical pathologies of narcissism, transpersonal psychologies of meditation and consciousness, and socio-cultural approaches to spiritual movements are used to examine both the nature of religious-mystical experience and the repeated appearance of mysticism throughout the 20th century using the personal, social, and political conflicts associated with the life histories of Nietzsche, Emerson, Thoreau, Heidegger, Jung, Blavatsky, Gurdjieff.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), PHIL (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PHIL 3Q95

Theories of Personality: Freud and Jung

(also offered as PSYC 3Q95)

Major clinically derived theories of personality with special attention to their bases in case study/life history methodology; focus on Freud and Jung and their continuing relevance for current personality, developmental and transpersonal psychology. The possibly unique relation of "depth psychology" to numinous experience (mysticism, creativity, psychosis).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), PHIL (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PHIL 3Q96

Theories of Personality: Developments in Psychodynamic and Transpersonal Psychology

(also offered as PSYC 3Q96)

Major developments in the psychoanalytic and clinical tradition (Kohut, Winnicott, Klein) as they relate to analogous developments within transpersonal and Jungian approaches to "higher" states of consciousness. Conflicts and congruences between these perspectives illustrated by selected life histories (Melanie Klein, Wilhelm Reich, G. Gurdjieff).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), PHIL (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PHIL 3V90-3V94

Comparative Studies in Philosophy

Historical and systematic study of one or more important themes as developed in ancient Greek, modern and contemporary philosophy and/or Eastern thought.

Seminar, 3 hours per week.

Prerequisite: one PHIL credit or permission of the instructor.

PHIL 3V95-3V99

Issues in 17th- and 18th-Century Philosophy

Special issue or a particular thinker of central importance in the classical period of modern philosophy. Where it does not focus upon one individual (e.g., Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant), the course will trace the development of an issue (e.g., causality, mind-body union, the doctrine of substance, personal identity) through its classical origins.

Seminar, 3 hours per week.

Prerequisite: PHIL 2P02, 2P03 or permission of the instructor.

PHIL 4P20

Kant and the 18th Century

Historical study of the thought of Immanuel Kant in the context of the 18th-century enlightenment, normally focusing on Kant's Critique of Pure Reason.

Lectures, seminar, 3 hours per week.

Prerequisite: PHIL 2P02, 2P03 or permission of the instructor.

PHIL 4P21

Hegel and the 19th Century

Historical study of the thought of Georg W. F. Hegel in the context of the 19th century.

Lectures, seminar, 3 hours per week.

Prerequisite: PHIL 2P02, 2P03 or permission of the instructor.

PHIL 4P97

Honours Tutorial I

Directed intensive and individual study in an area in which a student has developed and displayed a particular interest.

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

Note: to be chosen in consultation with a faculty member able to supervise the study. Proposals for a tutorial course must be approved by the Chair of the department by the last day for late registration.

PHIL 4P98

Honours Tutorial II

Directed intensive and individual study in an area in which a student has developed and displayed a particular interest.

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

Note: to be chosen in consultation with a faculty member able to supervise that study. Proposals for a tutorial course must be approved by the Chair of the department by the last day for late registration.

PHIL 4V06-4V14

Contemporary Studies in European Philosophy

The work of one or more thinkers prominent in recent Continental thought.

Seminar, 3 hours per week.

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V15-4V29

Modern Philosophical Studies

Advanced course devoted to one or more of the major thinkers of the tradition from Descartes to the present day.

Seminar, 3 hours per week.

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V30-4V45

Advanced Studies in Eastern Philosophy

Concentrated critical and interpretative study of selected texts in the areas of Advaita, Vedanta, Yoga, etc., Madhyamika and Yogacara schools of Buddhism, Daoism, or Confucianism.

Seminar, 3 hours per week.

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V46-4V60

Advanced Studies in Comparative Philosophy

Selected issues on the basis of faculty expertise.

Seminar, 3 hours per week.

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

Physical Education

This program is offered through the Department of Physical Education and Kinesiology

Chair

Panagiota Klentrou

Undergraduate Program Co-ordinator

Katrina Bennie

General Information

Administrative Assistant

Debbie Crossthwaite

905-688-5550, extension 4957

Walker Complex 296

<http://www.fahs.brocku.ca/pekn/>

The Department of Physical Education and Kinesiology offers a 20 credit Bachelor of Physical Education (BPhEd) degree, and Concurrent five-year programs combining Bachelor of Physical Education/Bachelor of Education (BPhEd (Honours)/BEd) Intermediate/Senior, BPhEd (Honours)/BEd Junior/Intermediate and BPhEd (Honours)/BEd Primary/Junior degrees. These degrees are accredited through the Canadian Council of Physical Education and Kinesiology Administrators.

The requirement for graduation with a BPhEd (Honours) is a minimum 70 percent major average, a minimum 60 percent non-major average and a minimum 60 percent overall average. The requirement for graduation with a BPhEd is a minimum 60 percent major average and a 60 percent minimum overall average.

New applications to the BPhEd program are accepted in years 2 and 3. Application forms are available in the Physical Education and Kinesiology office from April 1. Forms must be completed and returned to the office by May 15th. This is a limited enrolment program. Admission is not guaranteed by attainment of the minimum requirements.

Successful graduates of the Concurrent BPhEd (Honours)/BEd degree will receive an Honours Bachelor of Physical Education degree and a Bachelor of Education degree. The Dean of the Faculty of Education may

recommend that the Ontario College of Teachers grant an Ontario Certificate of Qualification certifying them to teach Primary/Junior (grades K-6), Junior/Intermediate (grades 4-10) or Intermediate/Senior (grades 7-12).

The BPhEd degree provides students with a broadly based understanding of the discipline through theoretical and practical courses in physical education. This program allows maximum opportunity for students to pursue various combinations of courses in teaching, coaching, programming and administration, and within their particular areas of interest (see Physical Education Subfields). This degree is accredited through the Canadian Council of Physical Education and Kinesiology Administrators.

Program Notes

1. Students wishing to proceed to year 2 as BPhEd majors must have achieved a minimum 65 percent major average, with a minimum 65 percent in PEKN 1P90 and 1P93, a minimum 60 percent non-major average and a minimum 60 percent overall average. Students wishing to proceed to year 3 and year 4 as a BPhEd major must have achieved a minimum 60 percent major average, a minimum 60 percent non-major average and a minimum 60 percent overall average.
2. Students should consult with the Department of Physical Education and Kinesiology regarding their program requirements.
3. BPhEd majors must take a minimum of two elective credits outside the Department of Physical Education and Kinesiology.
4. Students intending to pursue teacher certification upon completion of their degree should consult the Calendar entry for the Faculty of Education for the program admission requirements.
5. BPhEd majors are strongly recommended to take an emergency First Aid/CPR course.
6. The following courses are available for Science credit: PEKN 1P90, 2P04, 2P05, 2P09, 2P97, 3P10, 3P90, 3P94, 4P08, 4P10, 4P94, 4P96, 4P97, 4P98.

7. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Physical Education Subfields

The courses below are recommended for students interested in the following subfields:

Coaching

PEKN 2P19, 3P65, 3P91, 3P95, 4P91

Disability Studies

PEKN 2P44, 2P92, 3P06, 4P22, 4P52

Pedagogy

PEKN 2P44, 2P93, 3P32, 4P31, 4P32

Socio-Cultural Perspectives

PEKN 2P85, 3P70, 3P65, 3P85, 3P95, 4P11, 4P60, 4P70, 4P95

Sport Injury Prevention and Care

PEKN 2P70, 4P80, 4P81, 4P22

Physical Education Program

Year 1

- PEKN 1P90 and 1P93
- one Sciences context credit
- one Humanities context credit
- one Social Sciences context credit
- one elective credit

Year 2

- PEKN 2P00, 2P03, 2P04, 2P05, 2P06, 2P08, 2P09, 2P41 and 2P84
- one-half elective credit numbered 2(alpha)00 or above

Year 3

- PEKN 2P90, 2P91, 2P92, 2P95 and 3P10
- one credit from PEKN 3P00, 3P03, 3P06, 3P13, RECL 3P26
- PEKN 3P08 or 3P18
- one elective credit

Year 4

- PEKN 4F93
- PEKN 3P93 or 4P11
- one of PEKN 3P91, 4P00, 4P04
- one elective credit numbered 3(*alpha*)90 or above
- two elective credits

Description of Courses

See relevant calendar entry for course descriptions.

Physical Education and Kinesiology

Chair

Panagiota Klentrou

Professors

Maureen Connolly, John Corlett, Panagiota Klentrou, Anna H. Lathrop, Michael Plyley

Associate Professors

Lorne J. Adams, Allan Adkin, Stephen Cheung, Bareket Falk, Nancy R. Francis, Gail Frost, Kimberley L. Gammage, David Gabriel, Kelly L. Lockwood, Diane Mack, James L. Mandigo, Sandra J. Peters, Ian Ritchie, Danny Rosenberg, Brian D. Roy, Philip J. Sullivan, Philip M. Wilson

Assistant Professors

Jarold Cosby, David Ditor, Ken R. Lodewyk, Jae Patterson, Rene Vandenboom, Cathy van Ingen

Movement Specialist

Janet Westbury

Experiential Education Co-ordinator

Tammy Campbell

Adjunct Professors

Brian W. Timmons, Joseph P. Kenny, Chunlei Li, Russ Tupling, Wendy Ward

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Requirement for graduation with a BPhEd (Honours) BKin (Honours) or BSc (Kin) (Honours) degree is a minimum 70 percent major average, a minimum 60 percent non-major average and a minimum 60 percent overall average. Requirement for graduation with a BPhEd With Major, a BKin or BSc (Kin) With Major degree is a minimum 60 percent major average and a minimum 60 percent overall average.

New applications to the BPhEd, BKin or BSc (Kin) programs are accepted in years 2 and 3. Application forms are available in the Physical Education and Kinesiology office from April 1. Forms must be completed and returned to the office by May 15th. These are limited enrolment programs. Admission is not guaranteed by attainment of the minimum requirements.

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The BPhEd degree provides students with a broadly based understanding of the discipline through theoretical and practical courses in physical education. This program allows maximum opportunity for students to pursue various combinations of courses in teaching, coaching, programming and administration and within their particular areas of interest (see Physical Education Subfields). This degree is accredited through the Canadian Council of Physical Education and Kinesiology Administrators.

The BKin degree is based on a science-practice model that prepares students for selected certification in the allied health professions emphasizing bioscience courses, the development of research skills and the application of theoretical knowledge in laboratory settings. This degree is accredited through the Canadian Council of Physical Education and Kinesiology Administrators.

The BSc (Kin) degree focusses on the biophysical aspects of kinesiology and prepares students for careers in various health professions. This bioscience degree is designed for the student who wishes to concentrate on the science of human movement and prepares students to meet the requirements for postgraduate degree programs in biophysical kinesiology and the allied health professions.

Science Credit Courses

- PEKN 1P90
 - PEKN 2P04, 2P05, 2P09, 2P97
 - PEKN 3P10, 3P90, 3P94
 - PEKN 4P08, 4P10, 4P94, 4P96, 4P97, 4P98
-

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

PEKN 1P90

Foundations of Human Anatomy and Physiology

Structure and function of human systems and organs. Topics include cardiovascular, respiratory, digestive, renal and reproductive systems, and bone physiology. Introduction to fitness, health and physical activity effects.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BKin, BSc (Kin), NURS and RECL majors until date specified in Registration guide.

PEKN 1P93

Foundations of Movement Studies

Historical and sociological examination of systems of body culture and movement education in Europe and North America. Applications of movement concepts and theories to contemporary physical education.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide.

PEKN 2P00

Developmental Games

Educational and developmental value of non-formal games; emphasis on various practical and theoretical perspectives.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P01

Organization and Administration of Physical Education and Sport

Theory and practice of administration and management related to various delivery systems in both private and public sectors. Organizational structures at the federal, provincial and local levels.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in SPMA 1P91 and 1P92.

PEKN 2P03

Gymnastic Activities

Foundational gymnastics activities; emphasis on various forms of gymnastics. Practical and theoretical work designed to improve understanding and skills.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P04

Musculo-skeletal Anatomy

The anatomical bases of skeletal and muscular movement, joint actions and the interrelationship of aggregate muscle groups.

Lectures, lab, 4 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), and NEUR majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

Completion of this course will replace previous assigned grade and credit obtained in CHSC 2F95.

PEKN 2P05

Foundations of Motor Behaviour

Introduction to processes involved in the production and learning of motor skills; applications in teaching and coaching.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors with a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P06

Dance Education

Introduction to dance as an art form through making, performing and appreciating dance. Emphasis on the creative process, dance skills and vocabulary through exploration of dance concepts and observational skills.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93 or permission of the instructor.

Note: students will be expected to pay the cost of a ticket to a dance performance on campus.

PEKN 2P08

Research Design and Evaluation

Principles and techniques for research. Issues concerning the construction, administration and evaluation of data collection as well as the processing and analysis of data.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors with a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

Completion of this course will replace previous assigned grade and credit obtained in RECL 2P07 and SPMA 2P07.

PEKN 2P09

Human Physiology

Molecular, cellular, tissue and organ physiology. Topics include cellular communication, autonomic nervous system, endocrinology, blood cells and immunity.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin, BSc (Kin) and NURS majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P90 and 1P93.

Completion of this course will replace previous assigned grade and credit obtained in CHSC 2P09.

PEKN 2P19

Coaching Theory

Comprehensive introduction to coaching principles, including sport psychology, training principles, sport pedagogy and risk management.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P41

Health and Physical Activity Promotion

Problems associated with the ability to function effectively and efficiently in present-day society. The decision-making process related to the delivery of health education information.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93

PEKN 2P44

Physical Activity and Aging

The contribution of human movement to the well-being and quality of life of aging populations. A review of principles, practice and programs for seniors related to the concept of wellness. The myths, needs and movement potential of aging persons.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

PEKN 2P70

Care and Prevention of Injuries

Treatment, recognition and prevention of musculo-skeletal injuries; the interrelationship of anatomy, physiology and kinesiology and the practical application of these fields including emergency care and preventative taping. Emphasis on risk management strategies and safety practices in sport.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BE (Intermediate/Senior), BPhEd (Honours)/BE (Junior/Intermediate), Neur, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 2P04 or CHSC 2F95.

PEKN 2P84

Human Growth and Motor Development

Examination of human growth and motor development emphasizing physical, cognitive and affective development across the life span.
Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P85

Psychosocial Health and Physical Activity

Biological, psychological and social aspects of health and health risk behaviours at the individual and group level. Topics include physical activity, nutrition, stress, substance use and rehabilitation.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

PEKN 2P90

Physiological Responses to Physical Activity

Comprehensive study of exercise physiology for physical education majors. Topics include cardiorespiratory, metabolic, muscular, thermoregulatory and immunological responses to exercise and training.

Lectures, lab, 4 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior) majors until date specified in Registration guide.

Prerequisite: PEKN 2P09.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 2P97.

PEKN 2P91

Social History of Physical Education and Sport

Socio-cultural evolution of physical activity in North America emphasizing Canada; relationship with social, cultural, religious and political history.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P92

Foundations in Adapted Physical Education and Disability Studies

Life conditions and needs of persons who require individualized physical activity.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

Note: applied work, placement/practica required.

PEKN 2P95

Sport Psychology I

Psychological bases and implications in sport. Applications drawn to physical activity and physical education contexts. Topics include personality, motivation, achievement needs, group interaction.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 2P97

Muscle Physiology and Exercise Metabolism

Function of muscular and nervous systems in relation to exercise, training and health. Bioenergetics, metabolic and endocrine responses/adaptations to exercise and training.

Lectures, lab, 4 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), Neur, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 2P09 or BIOL 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 2P90.

PEKN 3P00

Individual and Dual Formal Games

Similarities and differences in individual and dual formal games are learned through a conceptual analysis of skills, rules and strategies. Practical and theoretical work will be performed to facilitate such learning.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd

(Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P00.

PEKN 3P02

Functional Fitness Assessment and Exercise Prescription

Techniques of physical fitness appraisal, health assessment, exercise prescription and lifestyle counselling, and their theoretical base and clinical application.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P90 or 2P97.

PEKN 3P03

Applied Gymnastics

Application of gymnastic-type skills across a wide variety of activities and environments.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P03.

PEKN 3P05

Motor Learning

Motor learning theory and its application to teaching, coaching and physical rehabilitation contexts across the lifespan.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors.

Prerequisite: PEKN 2P05.

Completion of this course will replace previous assigned grade and credit earned in PEKN 3Q05.

PEKN 3P06

Dance as a Cultural Pursuit

Theory and practice of dance as an artistic, educational, recreational and therapeutic endeavour in relation to a wide variety of cultures, environments and contexts.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd

(Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P06 or permission of the instructor.

Note: students will be expected to pay the cost of a ticket to a dance performance on campus.

PEKN 3P08

Quantitative Analysis

Quantitative means of understanding, evaluating and interpreting statistical information.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior) and BKin (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P08 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 3Q07 and SPMA 3P07.

PEKN 3P10

Biomechanics

Basic mechanical principles and concepts as applied to human movement. Focus on the characteristics of movement from both a qualitative and quantitative perspective.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P04 or CHSC 2F95.

PEKN 3P13

Global Lifestyle Fitness Activities

Theoretical and applied principles related to low and high impact activities.

Lectures, labs, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P05 or permission of the instructor.

Note: lab fee required; consult Department. Transportation is a student responsibility.

PEKN 3P18

Qualitative Approaches to Inquiry

Theories, approaches, designs, methods and

procedures for evaluative analyses.

Lectures, seminar, 3 hours per week.

Restriction: BPhEd, open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior) and BKin (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P08.

Completion of this course will replace previous assigned grade and credit obtained in RECL 3Q17 and SPMA 3P17.

PEKN 3P32

Movement Activities for Physical Education in the School

Sequential skill and knowledge development for children and adolescents through various movement forms appropriate in educational settings. Movement education principles applied to the observation, analysis and selection of activities.

Lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: one credit from PEKN 2P00, 2P03, 2P06, 3P13.

Note: in-school experience is required for all students. Transportation is a student responsibility. Prior Police check for criminal activity is required at the students expense.

PEKN 3P41

Health and Well-being

Contemporary issues in health education focusing on choices of concern to individuals in our society.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

PEKN 3P52

Human Factors and Ergonomics

Evidenced-based examination of human-machine systems that impact motor performance. The role of human factors and ergonomics in the design and measurement of these human-machine systems.

Lectures, 3 hours per week.

Restriction: open to BKin and BSc (Kin) majors. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P05 or permission of the instructor.

PEKN 3P65

Interventions in Physical Activity

Evidence-based physical activity intervention strategies with attention to individual, informational, social, behavioural and environmental approaches.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P95.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P75.

PEKN 3P70

Sociology of Sport I

Social significance of physical education and sport. Topics include social organizations, stratification, deviance, race, gender and the media.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P91.

PEKN 3P85

Exercise Psychology

Psychological influences on exercise behaviour and the influence that physical activity can have on the individual's behaviour.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

PEKN 3P90

Cardiorespiratory and Environmental Exercise Physiology

Examination of cardiovascular and respiratory systems in relation to exercise, training and health. Environmental physiology from rest to exercise. Exercise and the immune response. Recent advances in applied physiology.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd

(Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.
Prerequisite: PEKN 2P09 or BIOL 2P97.

PEKN 3P91

Training Principles

Current theories and practices in a variety of training contexts, formats and modalities. Training as applied to a broad age and ability spectrum; movement education principles applied to the observation, analysis and program design.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P05.

Note: lab fee is required.

PEKN 3P93

Philosophy of Physical Education and Sport
Philosophic inquiry on the nature of embodiment as experienced through physical education and sport.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisites: PEKN 1P90 and 1P93.

PEKN 3P94

Motor Control

Neural organization and processes underlying the generation of human movement.

Lectures, lab/seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P05.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 2P82.

PEKN 3P95

Sport Psychology II

Integration of reading, research and applied work in the psychology of coaching. Topics include leadership, coach development and the psychological profile of the coach.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P95.

PEKN 3P96

Women, Men and the Body

(also offered as WISE 3P96)

Critical and reflective examination of historical, philosophical, socio-cultural and religious influences on the body from a variety of feminist perspectives.

Lectures, lab, tutorial, 3 hours per week.

Prerequisite: PEKN 1P93 or WISE 1F90 or permission of the instructor.

Note: experiential work (somatic, movement, expressive) is part of the course experience.

PEKN 3P99

Special Studies in Physical Education and Kinesiology

Directed study in specialized areas.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors with 9.0 overall credits and permission of the Department.

Note: approval of a faculty member and the Chair required.

PEKN 4F32

International Experiences in Sport, Health and Physical Education

Exploration and implementation of multi-disciplinary theories and techniques regarding the development of healthy communities.

Lectures, lab, fieldwork.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd, BPhEd (Honours)/BEd (Junior/Intermediate) and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and permission of the instructor.

Note: students must complete an application and interview prior to being admitted into the course. Students must be at least 18 years of age and have a valid passport, visa and immunizations as required. Students are required to pay their own expenses.

PEKN 4F91

Thesis/Project

Directed study in an approved area of specialization.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors with a minimum of 13.0

overall credits, a minimum 70 percent major average, minimum 60 percent non-major average and permission of the Chair.

Note: prior to registration students must submit a written proposal for approval by a faculty adviser and the Chair by June 1.

PEKN 4F93

Physical Activity Across the Lifespan

Application of theoretical knowledge in the development and delivery of diverse movement programs.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisites: PEKN 2P00, 2P03 and 2P06.

Note: placement in a physical activity setting is required for all students. Transportation is a student responsibility. Prior Police check for criminal activity is required at the students expense. Field experience fee may be charged; consult Department.

PEKN 4P00

Team Formal Games

Similarities and differences in team formal games are learned through a conceptual analysis of skills, rules and strategies. Practical and theoretical work will be performed to facilitate such learning.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P00.

PEKN 4P02

Programming in Disability Studies

Planning and implementing bodily based experiences with persons with disabilities and chronic illnesses. Prolonged engagement, direct contact placement; administration; working with parents, government and consultation services; instruction/facilitation of learning experiences.

Tutorial, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 2P92.

Note: additional field placement required. Transportation is a student responsibility. Prior

Police check for criminal activity is required at the students expense.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 4F02.

PEKN 4P04

Life Skills and Physical Activity

How physical activities can foster holistic health and development of life skills such as teamwork, critical thinking and leadership.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisites: PEKN 2P00 and 2P03.

Note: additional fees may apply when a fieldwork option is part of the course. May require current First Aid/ CPR certification; consult Department.

PEKN 4P08

Nutritional Implications for Human Performance

Nutritional intake and its effects on exercise and sport performance emphasizing the importance of macronutrients, vitamins, minerals and ergogenic aids, during training and competition. Emphasis on current research in both applied sport nutrition and basic nutritional biochemistry.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide.

Prerequisite: PEKN 2P90 or 2P97 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in CHSC 2P91.

PEKN 4P10

Clinical Biomechanics

Mechanics of human movement with applications to ergonomics, rehabilitation and sport. Focus on two-dimensional kinetics and kinematics, with an introduction to three-dimensional analysis of movement.

Lectures, 3 hours per week; lab 3 hours bi-weekly.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: one of PEKN 2P04, CHSC 2F95, PHYS 1P91 and 1P93.

PEKN 4P11

Sport Ethics

Speculative philosophical approach to specific ethical issues in sport. Ethics of competition, sportsmanship, cheating and violence in sport, the use of performance-enhancing drugs, equality and excellence, gender equity in sport and the role of intercollegiate sport.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 2P91.

Completion of this course will replace previous assigned grade and credit obtained in SPMA 4P08.

PEKN 4P22

Therapeutic Applications of Physical Activity

Development of activity programs in therapeutic contexts. Exercise assessment and prescription.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors with a minimum of 13.0 overall credits.

Prerequisites: PEKN 2P04 or CHSC 2F95; PEKN 2P09.

PEKN 4P31

Reflective Practice in Physical Education

Processes involved in becoming reflective practitioners. The processes of teaching and development of reflective awareness related to practitioner conduct.

Lectures, lab, field work, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

PEKN 4P32

Teaching and Learning in School-Based Physical Education

Development and delivery of physical education programs for children and adolescents, based upon the Ontario Health and Physical Education Curriculum.

Lectures, lab, fieldwork, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 3P32.

Note: in-school experience is required for all students. Transportation is a students' responsibility. Prior police check for criminal activity is required at the students' expense.

PEKN 4P40

Cultural Studies of Sport and Leisure

Theory and practice of cultural studies related to sport and leisure, focusing on contemporary issues.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have with a minimum of 13.0 overall credits.

Prerequisite: PEKN 2P91.

PEKN 4P52

Chronic Illnesses and Disability Across the Lifespan

Examination of the pathology of specific diseases in addition to the impact of physical activity on the quality of life of persons with a chronic illness or disability.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisites: PEKN 2P92; PEKN 3P94 or NEUR 2P36 and 2P37 (2F36);

Note: applied work, placement/practica required.

Completion of this course will replace prior credit obtained in PEKN 3P23.

PEKN 4P60

Sociology of the Modern Olympic Games

Social and political issues including historical trends in the Olympic movement, power and organizational structure of the International Olympic Committee, media integration, gender equity, substance use, athletes' rights and the role of the Olympic Games in globalization and international development.

Lectures, 3 hours per week; plus fieldwork.

Restriction: open to BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide.

Restriction: permission of the instructor.

Prerequisite: PEKN 3P70.

PEKN 4P70

Sociology of Sport II

Sport as a microcosm of society, socio-political

theories, religion, culture, socially structured inequalities and excesses in sport.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 3P70.

PEKN 4P71

Health Care Ethics for Kinesiologists

Applied ethics in the health care system from a professional kinesiology perspective by examining concepts, theories and case studies.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 1P90 and 1P93.

PEKN 4P80

Clinical and Field Practices in Athletic Therapy

Emphasis on musculo-skeletal evaluation, rehabilitation principles, therapeutic exercise and modalities, patient management skills and taping used in clinical settings. Focus on ankle and lower leg injuries.

Lectures, internship, 5 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits and permission of the instructor.

Prerequisite: PEKN 2P70.

Note: a minimum grade of 75 percent in PEKN 2P70 and permission of the instructor is required.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P80.

PEKN 4P81

Clinical Assessments in Athletic Therapy

Emphasis on musculo-skeletal evaluation and rehabilitation of sports injuries to remaining peripheral joints of lower and upper extremity. Functional and surface anatomy is stressed with clinical applications for rehabilitation. Qualitative posture and gait assessment.

Lectures, internship, 5 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd

(Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors with a minimum of 9.0 overall credits and permission of the instructor. Prerequisite: PEKN 4P80.

Note: clinical internship required. Enrolment limited to 22 students per section.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P81.

PEKN 4P84

Children's Response to Physical Activity and Exercise

The course will examine children's exercise capacity and physiological response to physical activity and exercise in terms of the different body systems (e.g., cardiovascular, musculoskeletal). Emphasis will be put on differences in responses between children and adults.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisites: PEKN 2P84; PEKN 2P90 or 2P97.

PEKN 4P85

Body Image

Examination of body image from a cognitive behavioral perspective. Issues related to measurement, theories and disturbance. Group and individual differences and body image interventions.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

PEKN 4P91

High Performance Athletic Assessment and Training

Theoretical and practical fundamental principles underlying training as they apply to high performance athletic assessment and training. Active participation, development, implementation and critical evaluation of selected performance-specific assessment protocols, conditioning and individualized training programs.

Lectures, lab, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in

Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 3P91.

Note: performance in activity labs and fieldwork in applied setting is required.

PEKN 4P94

Neural Control of Balance and Gait

Neurophysiological techniques in the generation and learning of human movement emphasizing balance and gait.

Lectures, lab, seminar 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 3P94 or NEUR 2P36 and 2P37 (2F36).

* PEKN 4P95

Gender and Sport

(also offered as WISE 4P95)

Historical and current issues informed by gender studies, theories and politics. The shaping of experiences through the practices of sport and gender.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin, BSc (Kin) and WISE (single or combined) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

PEKN 4P96

Physiological Consequence of Spinal Cord Injury and Rehabilitative Techniques

Secondary health complications accompanying spinal cord injury. Current exercise and drug therapies used as rehabilitative strategies for this special population.

Lectures, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd/BEEd (Honours) (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisites: PEKN 1P90 and 2P09 or permission of the instructor.

PEKN 4P97

Regulation of Human Metabolism

Physiological approach to understanding the integration of substrate supply to skeletal muscle and energy production by muscle cells during exercise of different intensities emphasizing current research in human

metabolic regulation.

Lectures, seminar, 3 hours per week.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 2P90 or 2P97.

PEKN 4P98

Principles of Physiological Signals and Instrumentation

Computerized data acquisition and analysis for the life sciences. Topics include analogue-to-digital conversion, amplitude and frequency structure of signals, filtering, sampling and correlation functions.

Lectures, 2 hours per week; lab, 2 hours bi-weekly.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc (Kin) majors until date specified in Registration guide.

Prerequisites: PEKN 3P10, 3P90 and 3P94.

PEKN 4P99

Advanced Topics in Physical Education and Kinesiology

Directed study in concentrated areas.

Restriction: open to BPhEd, BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Junior/Intermediate), BPhEd (Honours)/BEEd (Primary/Junior), BKin and BSc(Kin) majors with 14.0 overall credits and permission of the Department.

Note: approval of a faculty member and the Chair required.

Physics

Chair

Edward Sternin

Professors Emeriti

John E. Black, Ramesh C. Shukla

Professors

Shyamal K. Bose, Douglas H. Bruce, Bozidar Mitrovic, Fereidoon S. Razavi, Maureen Reedyk, Stuart M. Rothstein, Kirill Samokhin, Art van der Est

Associate Professors

David A. Crandles, Edward Sternin

Assistant Professor

Thad A. Harroun

Participating Faculty

Henryk Fuks, Jan Vrbik

Adjunct Professors

James A. Blackburn, John Katsaras, Reinhard Kremer

Academic Advisers

David Crandles, Maureen Reedyk

Senior Laboratory Instructor

Frank A. Benko

Laboratory Demonstrator

Fulvio Boseglav

Director Co-operative Programs

Cindy Dunne

General Information

Administrative Assistant

Elizabeth Horvath

905-688-5550, extension 3412

Mackenzie Chown B210

<http://www.physics.brocku.ca/>

The department offers four-year programs of study leading to a BSc Honours in Physics, a BSc Honours Co-op option in Physics, a BSc with Major Physics and a three-year BSc Pass degree program. Students may take a single major in Physics or a combined major with Biological Sciences, Chemistry, Computer Science, Mathematics or Great Books/Liberal Studies.

In addition, the department offers a four-year Honours program leading to a B. Sc. degree in Physics with a concentration in Applied Optics and Laser Technology. This program combines Brock courses with those offered by Niagara College.

The core of the program is designed to provide an understanding of the principles and fundamental interactions of classical and quantum physics as well as many applications of these principles in technology and everyday life. It is possible for non-Physics degree students to take advanced courses, provided they have the physics and mathematics required in the year 1 Physics program. An experimental physics path of PHYS 2P31 and 3P92 or a modern physics path of PHYS 2P50 and 3P91 are possible.

The Physics Co-op program combines academic and work terms over a four and one-half year period. Students spend two years in an academic setting, where they acquire the necessary background prior to taking the first work placement. In addition to the current fees for courses in academic study terms, Physics Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Physics Co-op program, but may continue in the Physics stream.

The Physics Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

The department also offers a Minor in Physics program. The goal of this program is to introduce students to the fundamental concepts of various branches of physics and their applications. The selection of courses is tailored to the needs and interests of individual students with diverse backgrounds (e.g., philosophy, classics, business and finance, mathematics and other science programs). Students should consult one of the Undergraduate Student Advisers of the Physics Department (physics@brocku.ca or ext. 3412) to plan the sequence of courses most suited to their background and needs.

Program Notes

1. Students should consult a faculty adviser when planning years 3 and 4 of the BSc programs or year 3 of the BSc Pass program.
2. Students planning to go to graduate school in theoretical physics are strongly advised to take MATH 3P04 among their electives.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- PHYS 1P21 or 1P91 (recommended)
- PHYS 1P22 or 1P92 (recommended)
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12 and 1P98
- one Humanities context credit or Social Sciences context credit

Year 2

- PHYS 1P23 or 1P93 (recommended)
- PHYS 2P20, 2P31, 2P32, 2P50 and 2P51
- MATH 2F05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- MATH 3P08 and 3P09
- one and one-half elective credits (see program note 2)

Year 4

- One and one-half credits from PHYS 3P90, 3P92, 3P93, 4F90, 4P61, 4P70, 4P71, 4P92, 4P94
- PHYS 4P30, 4P41, 4P51 and 4P52
- one of PHYS 4P61, 4P70, 4P94
- one elective credit

Physics Co-op (Honours only)

Students admitted to the Co-op program must follow the program schedule as listed below. Failure to adhere to the schedule may result in removal from the Physics Co-op program.

Year 1

- PHYS 1P21 or 1P91 (recommended)
- PHYS 1P22 or 1P92 (recommended)
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12 and 1P98
- one Humanities context credit or Social Sciences context credit

Year 2

- PHYS 1P23 or 1P93 (recommended)
- PHYS 2P20, 2P31, 2P32, 2P50, and 2P51
- MATH 2F05, or MATH 2P03 and 2P08
- SCIE 0N90
- the Humanities context credit or Social Sciences context credit not taken in year 1

Spring/Summer Sessions:

- PHYS 0N01

Year 3

Fall Term:

- PHYS 3P35, 3P70 and 3P91
- MATH 3P08
- one-half elective credit

Winter Term:

- PHYS 0N02

Year 4

Fall Term:

- PHYS 0N03

Winter Term:

- PHYS 3P36 and 3P41
- MATH 3P09
- one elective credit (see program note 2)

Spring/Summer Sessions:

- PHYS 4F90 and 4F91
- one-half elective credit

Year 5

Fall Term:

- PHYS 3P92 or one-half elective credit
- one credit from PHYS 4P30, 4P41, 4P52, 4P61, 4P70, 4P94
- PHYS 4P51
- one half elective credit

BSc with Major Program

Year 1

- PHYS 1P21 or 1P91 (recommended)
- PHYS 1P22 or 1P92 (recommended)
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12 and 1P98
- one Humanities context credit or Social Sciences context credit

Year 2

- PHYS 1P23 or 1P93 (recommended)
- PHYS 2P20, 2P31, 2P32, 2P50 and 2P51
- MATH 2F05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- MATH 3P08 and 3P09
- one and one-half elective credits

Year 4

- One of PHYS 3P90, 3P92, 3P93
- one and one-half credits from PHYS 4P30, 4P41, 4P51, 4P52, 4P61, 4P70 and 4P94
- two PHYS credits numbered 2(*alpha*)00 or above
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Concurrent BSc/BEd

The Department of Physics and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEd programs. The Physics BSc (Honours)/BEd program combines the BA Honours program or BA Integrated Studies Honours program with the teacher education program for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10). Refer to the Education-Concurrent BSc (Honours)/BEd (Intermediate/Senior) or Education-Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) program listings for further information.

Combined Major Program

Physics and Biological Sciences

Honours

Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- one Humanities context credit or one Social Sciences context credit

Year 2

- PHYS 2P02 and 2P50
- BIOL 2F01
- one credit from BIOL 2P05, 2P92, 2P93, 2P96, 2P98, 2Q04
- MATH 2F05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Sciences context credit not taken in year 1

Year 3

- PHYS 2P31, 2P51 and 3P02
- one BIOL credit
- one BIOL credit numbered 2(*alpha*)00 to 3(*alpha*)99 or one PHYS credit numbered 2(*alpha*)90 to 3(*alpha*)99
- one and one-half elective credits

Year 4

- One of PHYS 4F90 and 4F91, BIOL 4F90 and 4F91, PHYS 4F90 and one elective credit, BIOL 4F92 and one elective credit
- one PHYS credit numbered 2(*alpha*)99 or above
- one BIOL credit numbered 2(*alpha*)99 or above
- one credit from PHYS and/or BIOL courses numbered 2(*alpha*)90 or above

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Physics and Computer Science

Honours

Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- COSC 1P02 and 1P03

- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P66, and 1P67
- one Social Sciences context credit

Year 2

- PHYS 2P20, 2P31, 2P50 and 2P51
- COSC 2P03 and 2P12
- MATH 2F05, or MATH 2P03 and 2P08
- one Humanities context credit

Year 3

- Two credits from MATH 3P08, 3P09, PHYS 3P35, 3P36, 3P41, 3P70, 3P90
- COSC 1P50, 2P13, 2P32 and 2P90
- MATH 1P12
- one-half elective credit

Year 4

- Two credits from PHYS 4P51, 4P52, 4F90, 4P41, 4P61, 4P70, 4P92, 4P94
- COSC 3F00
- two COSC credits numbered 3(*alpha*)90 or above

Physics and Mathematics

Honours

Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12, and 1P40
- one Humanities context credit
- one Social Sciences context credit

Year 2

- PHYS 2P20, 2P31, 2P50 and 2P51
- MATH 2P12, 2P81 and 2P82
- MATH 2F05, or MATH 2P03 and 2P08
- one-half elective credit

Year 3

- Two credits from PHYS 3P35, 3P36, 3P41, 3P70, 3P90
- MATH 2F40, 3P08 and 3P09
- one elective credit

Year 4

- PHYS 4F90 and 4F91 or MATH 3P04, 3P12 and one MATH credit numbered 3(*alpha*)90 or above
- PHYS 4P51 and 4P52
- one credit from PHYS 4P30, 4P41, 4P61, 4P70 and 4P94
- one elective credit

Physics and Chemistry

Consult the Chemistry entry for a listing of program requirements.

Physics and Liberal Arts (Honours only)

Consult the Liberal Arts entry for listing of program requirements.

Minor in Physics

Students in other disciplines can obtain a Minor in Physics within their degree programs by completing four full credits from the following courses with a minimum 60 percent average:

- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- one-half additional PHYS credit
- two and one-half credits from ASTR 1P01, 1P02 or PHYS credits numbered 2(*alpha*)00 or above

Brock/Colleges Articulation Agreement

Concentration in Applied Optics and Laser Technology

The concentration in Applied Optics and Laser Technology combines a basic Bachelor's education in the core fields within Physics with practical training in fibre optics, photonics, and high vacuum and laser technologies. This is a four-year honours program and involves courses offered through Brock University and Niagara College's postgraduate certificate program in Advanced Laser Technologies. Students completing the program will receive a B.Sc. Honours degree in Physics with concentration in Applied Optics and Laser Technology, as well as a postgraduate certificate in Advanced Laser Technologies from Niagara College.

The program aims to fulfill the increasing demand from the fibre optics and telecommunications industry for graduates with knowledge and technical skills in photonics, opto-electronic devices, and laser, thin film and high vacuum technologies. Normally, to acquire these qualifications students would first complete a university degree and then complete a suitable technical program at a college. The Brock-Niagara program combines the two in a single integrated package.

Students may enter this program directly in year one, or transfer to this program in or at the end of year 2 of any four-year Physics program. Enrolment will be limited, depending on the availability of lab space at Niagara College.

Admission to the Concentration program will include concurrent admission to the Niagara College postgraduate certificate program in Advanced Laser Technology.

Honours-Niagara College

Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- CHEM 1F92
- MATH 1P01 and 1P02, or MATH 1P05 and 1P06 (recommended)
- MATH 1P12 and 1P98
- one Humanities context credit or Social Sciences context credit

Year 2

- PHYS 2P20, 2P31, 2P32, 2P50 and 2P51
- MATH 2F05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Sciences context credit not taken in year 1
- one-half elective credit

Year 3

- taken at Niagara College

Year 4

- PHYS 3P35, 3P36, 3P41 and 3P70
- one PHYS credit numbered 3(*alpha*)90 or above
- MATH 3P08
- one and one-half elective credits

Master of Science (MSc) Program

The department offers an MSc program in condensed matter physics including experimental and/or theoretical research. Current research interests and activities involve experimental, theoretical and computational studies in materials science and condensed matter.

For details, see the Graduate Calendar or contact the Chair of the Department.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

ASTRONOMY

ASTR 1P01

Introduction to Astronomy I

Description of the appearance of the night sky, history of astronomy, light and telescopes, measuring the properties of stars, structure and functioning of the Sun.

Lectures, 3 hours per week.

Completion of this course will replace previously assigned grade and credit obtained in ASTR 1F00.

ASTR 1P02

Introduction to Astronomy II

Formation and evolution of stars, properties of some unusual astronomical objects, such as pulsars and black holes, galaxies, cosmology and a discussion of the planets of the solar system.

Lectures, 3 hours per week.

Note: ASTR 1P01 is highly recommended.

Completion of this course will replace previously assigned grade and credit obtained in ASTR 1F00.

PHYSICS

PHYS 1P21

Mechanics and Waves

Kinematics, Newton's laws and their applications to equilibrium and dynamics with examples from biomechanics; waves and sound.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Note: students may not concurrently register in PHYS 1P91.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 1P91.

PHYS 1P22

Electromagnetism, Optics and Modern Physics

Charges and fields, electric currents and circuits, electromagnetic waves and wave nature of light, optics and elements of modern physics.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: PHYS 1P21 or permission of the instructor.

Note: students may not concurrently register in PHYS 1P92.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 1P92.

PHYS 1P23

Fluids, Heat and Light

Fluids in equilibrium, surface tension and capillary action; fluids in motion, viscosity and turbulent flow. Heat and temperature, elements of kinetic theory and the laws of thermodynamics. Optics and elements of modern physics.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: PHYS 1P21 or permission of the instructor.

Note: students may not concurrently register in PHYS 1P93. OEVI students may register without the prerequisite.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 1P93.

PHYS 1P91

Mechanics and Waves with Laboratory

Combination of lectures and tutorials in PHYS 1P21 with a laboratory session.

Lectures, 3 hours per week; tutorial, 1 hour per week; lab, alternating weeks, 3 hours per week.

Note: students may not concurrently register in PHYS 1P21.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 1P21.

PHYS 1P92

Electromagnetism, Optics and Modern Physics with Laboratory

Combination of lectures and tutorials in PHYS 1P22 with a laboratory session.

Lectures, 3 hours per week; tutorial, 1 hour per week; lab, alternating weeks, 3 hours per week.

Prerequisite: PHYS 1P91.

Note: students may not concurrently register in PHYS 1P22.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 1P22.

PHYS 1P93

Fluids, Heat and Light with Laboratory

Combination of lectures and tutorials in PHYS 1P23 with a laboratory session.

Lectures, 3 hours per week; tutorial, 1 hour per week; lab, alternating weeks, 3 hours per week.

Prerequisite: PHYS 1P91 or permission of the instructor.

Note: students may not concurrently register in PHYS 1P23. OEVI students may register without the prerequisite.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 1P23.

PHYS 2P02

Introduction to Medical Physics

Physical and chemical interactions of ionizing radiations and their biological effects, structural imaging (magnetic resonance imaging, ultrasound, computed tomography and optical microscopy); nuclear medicine, therapeutic applications of radiation.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: one of 4U/M PHYS (SPH4U), PHYS 1P22, 1P23, 1P92, 1P93.

PHYS 2P20

Introductory Mechanics

Mechanics of particles and systems of particles by the Newtonian method; conservation of linear momentum, angular momentum and energy; elementary dynamics of rigid bodies; oscillators; motion under central forces; selected applications.

Lectures, problem sessions, 3 hours per week; lab, tutorial, 3 hours per week.

Prerequisites: PHYS 1P21 or 1P91 (recommended); one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93; MATH 1P01 and 1P02.

PHYS 2P31

Analog Electronics

Conduction in metals and semi-conductors; circuit analysis; semi-conductor junction, diode and transistor; rectification, switching and amplification; operational amplifiers, active filters; laboratory instruments.

Lectures, lab, 6 hours per week.

Prerequisites: PHYS 1P21 or 1P91 (recommended); one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93; one MATH credit or permission of the instructor.

Note: no previous course in electricity/magnetism/electronics is required. Secondary school algebra and some basic calculus will be used in the quantitative sections.

PHYS 2P32

Digital Electronics

Principles of digital electronics; combinatorial logic and circuits; sequential circuits, counters; digital computing and control; analog-to-digital conversion; signal sampling; elements of computational science; an introduction to programming.

Lectures, lab, 6 hours per week.

Prerequisites: PHYS 1P21 or 1P91 (recommended); one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93; one MATH credit or permission of the instructor.

PHYS 2P50

Modern Physics

Special relativity, photons, the wave-particle aspects of electromagnetic radiation and matter; introduction to wave mechanics; the hydrogen atom and atomic line spectra; orbital and spin angular momenta; lasers.

Lectures, tutorial, 4 hours per week.

Prerequisites: PHYS 1P21 or 1P91 (recommended); one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93; MATH 1P01 and 1P02.

PHYS 2P51

Introduction to Classical and Modern Optics

Geometrical and wave optics, reflection, refraction, lenses, matrix methods, aberrations, gradient index phenomena including fibre optics, interference, coherence, holography, Fraunhofer and Fresnel diffraction, polarization.

Lectures, lab, 6 hours per week.

Prerequisites: PHYS 1P21 or 1P91 (recommended); one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93; MATH 1P01 and 1P02.

PHYS 3P02

Cellular Biophysics

Introduction to the molecular biophysics of cellular membranes, structure and function of the major cell components (lipids, proteins and carbohydrates), experimental physical techniques, photobiology, biological electrokinetics, bioinformatics, biomechanics, and biomimetics.

Lectures, 3 hours per week; lab, alternate week, 4 hours per week.

Prerequisite: PHYS 2P31 or permission of the instructor.

PHYS 3P35

Electromagnetism I

Electric field, divergence and curl of electrostatic field; relation between electric work and energy; conductors; application of Laplace's and Poisson's equation in electrostatics; electrostatic field in matter; field in polarized object and linear dielectric.

Lectures, 3 hours per week.

Prerequisite: MATH 2F05, or MATH 2P03 and 2P08.

PHYS 3P36

Electromagnetism II

Magnetostatics, divergence and curl of magnetic field; magnetic vector potential; magnetic field in matter; magnetization; field of magnetic object; magnetic field inside of linear and non-linear media; electrodynamics; Ohm's law; Faraday's law and Maxwell equations; energy and momentum in electrodynamics; electromagnetic waves.

Lectures, 3 hours per week.

Prerequisite: PHYS 3P35.

PHYS 3P41

Statistical Physics I

Introduction to probability distribution functions, accessible states, entropy, temperature, partition functions and relations to thermodynamic functions.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: PHYS 2P50.

PHYS 3P70

Introduction to Quantum Mechanics

Wave particle dualism, Schrodinger equation, solution of simple one-dimensional barrier problems and the harmonic oscillator, hydrogen atom, angular momentum theory, introduction to perturbation theory and variational methods.

Lectures, lab/problem sessions, 4 hours per week.

Prerequisites: PHYS 2P50; MATH 2F05, or MATH 2P03 and 2P08.

PHYS 3P90

Classical Mechanics

Advanced treatment of the mechanics of particles and of rigid bodies; Lagrangian and Hamiltonian methods; Poisson brackets, applications to the theory of small oscillators and central force motions, elements of chaotic motions.

Lectures, 3 hours per week.

Prerequisites: PHYS 2P20; MATH 2F05, or MATH 2P03 and 2P08.

Completion of this course will replace previously assigned grade and credit obtained in PHYS 3P20.

PHYS 3P91

Experimental Physics I

Laboratory experiments to be selected from atomic physics, nuclear physics, solid state physics.

Lab, 1 day per week.

Prerequisites: PHYS 2P50 or permission of the instructor.

PHYS 3P92

Experimental Physics (Electronics) II

Operational amplifiers, converters, switches, microcomputers and their application to physical measurements.

Lab, 1 day per week.

Prerequisite: PHYS 2P31 or permission of the instructor.

Note: PHYS 2P32 recommended.

PHYS 3P93

Solid-State Devices

Principles of operation of solid-state devices, from the point of view of the quantum theory;

electronic bands and conduction in semiconductors; operation and manufacture of silicon and germanium diodes, junction and field effect transistors; thin-film deposition technology; special topics.

Lectures, lab, 6 hours per week.

Prerequisite: PHYS 3P70.

PHYS 4F90

Research Project I

Small experimental, theoretical or applied physics research project to be carried out under the supervision of a member of the department. Restriction: open to PHYS (single or combined) and CAST majors with either a minimum of 14.0 overall credits, a minimum 70 percent major average and a minimum 60 percent non-major average or approval to year 4 (honours).

Note: the project may, under special circumstances, be started in the summer months. Students must consult with the Department Chair regarding their proposed program during the first week of lectures.

PHYS 4F91

Research Project II

Small experimental, theoretical or applied physics research project to be carried out under the supervision of a member of the department. Restriction: open to PHYS (single or combined) majors with either a minimum of 14.0 overall credits, a minimum 70 percent major average and a minimum 60 percent non-major average or approval to year 4 (honours) and permission of the department.

Prerequisite: PHYS 4F90.

Note: the project may, under special circumstances, be started in the summer months. Students must consult with the Department Chair regarding their proposed program during the first week of lectures. PHYS 4F90 and 4F91 may be taken concurrently.

PHYS 4P09

Solitons and Nonlinear Wave Equations

(also offered as MATH 4P09)

Introduction to solitons. Travelling waves, nonlinear wave and evolution equations (Korteweg de Vries, Boussinesq, nonlinear Schrodinger, sine-Gordon), soliton solutions and their interaction properties, Lax pairs and construction of single and multi soliton solutions.

Lectures, 3 hours per week; lab/tutorial, 1 hour per week.

Prerequisite: one of MATH 3P09, 3P51, 3P52.

PHYS 4P30

Electromagnetic Waves

Electromagnetic wave propagation in vacuum, dielectrics, conductors and ionized gases; reflection, refraction, polarization at the plane

boundary between two media; wave guide and transmission line propagation; dipole and quadrupole radiation fields; antenna systems; electromagnetic radiation pressure; transformation of the electromagnetic fields.
Lectures, problem sessions, 3 hours per week.
Prerequisites: PHYS 3P35, 3P36, MATH 3P08 and 3P09.

PHYS 4P41

Statistical Physics II

Fundamental postulates, equilibrium statistical mechanics and its relation to thermodynamics. Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics are derived and applied in appropriate physical situations of non-interacting and interacting particles; fluctuations; elementary treatment of transport theory.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisites: PHYS 3P41, 3P70, MATH 3P08 and 3P09.

PHYS 4P51

Quantum Mechanics I

Postulates about states, observables, probabilities, change of state in a measurement, and time evolution. Dirac's bra and ket notation; representation and transformation theory. Two-level systems. Complete set of commuting observables and classification of states. Symmetries and their usage in classification of states.

Lectures, 3 hours per week.

Prerequisites: PHYS 3P70, MATH 3P08 and 3P09.

PHYS 4P52

Quantum Mechanics II

Operator methods in quantum mechanics, charged particles in electromagnetic field, angular momentum, variational method, time-independent and time-dependent perturbation theories, theory of scattering.

Lectures, 3 hours per week.

Prerequisites: PHYS 3P70, MATH 3P08 and 3P09.

PHYS 4P61

Nuclear Physics

Intrinsic properties of nuclei, nuclear binding energy; qualitative treatment of shell model; alpha, beta and gamma radioactivities, nuclear fission, characteristics of nuclear reactions.

Lectures, problem sessions, 3 hours per week.

Prerequisites: PHYS 2P50 and 3P70.

PHYS 4P70

Condensed Matter Physics I

Crystal structures and crystal binding; the vibration of atoms in solids and the

thermodynamics of solids; introduction to transport properties of solids.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: PHYS 3P70.

PHYS 4P71

Condensed Matter Physics II

Energy bands in metals and semiconductors, dynamics of electrons, Fermi surfaces and transport properties of solids, magnetism, screening in electron gas, optical properties.

Lectures, 3 hours per week; tutorial, 1 hour per week.

Prerequisite: PHYS 4P70.

PHYS 4P92

Advanced Electronics Laboratory

Families of logic devices, selection and implementation techniques; synchronous and asynchronous sequential circuits; safety and physical constraints; programmable array logic designs; digital signal processing, optoelectronics; CAD; circuit layout.

Lab, 1 day per week.

Prerequisite: PHYS 3P92.

Note: completion of a project from design to a working device is required.

PHYS 4P94

General Relativity and Black Holes

(also offered as MATH 4P94)

Review of Special Relativity and Minkowski space-time. Introduction to General Relativity theory including gravitation and the space-time metric, light cones, horizons, asymptotic flatness; energy-momentum of particles and light rays (geodesics). Static black holes (Schwarzschild metric), properties of light rays and particle orbits. Rotating black holes (Kerr metric).

Lectures, 3 hours, lab/tutorial 1 hour, per week.

Prerequisites: PHYS 2P20, 2P50, MATH 2F05; or permission of the instructor.

PHYS 4V80-4V89

Special Topics

Examples of topics are relativity and cosmology; surface physics and electronic states in ordered and disordered systems.

Lectures, problem sessions, 4 hours per week.

CO-OP COURSES

PHYS 0N01

Co-op Work Placement I

First co-op placement (4 months) with an approved employer.

Restriction: open to PHYS Co-op students.

PHYS 0N02

Co-op Work Placement II

Second co-op placement (4 months) with an approved employer.

Restriction: open to PHYS Co-op students.

PHYS 0N03

Co-op Work Placement III

Third co-op placement (4 months) with an approved employer.

Restriction: open to PHYS Co-op students.

PHYS 0N04

Co-op Work Placement IV

Co-op placement (4 months) with an approved employer.

Restriction: open to PHYS Co-op students.

PHYS 0N05

Co-op Work Placement V

Co-op placement (4 months) with an approved employer.

Policing and Criminal Justice

This program is offered through the Departments of Communication, Popular Culture and Film, Geography, Political Science, Psychology and Sociology

Co-ordinator
Dorothy Griffiths

Program Co-ordinator and Adviser
Jeanette Ramsay

General Information

Assistant to the Dean
Carol-Ann Farinacci

905-688-5550, extension 3425
Scotiabank Hall 324

Policing and Criminal Justice-Niagara College
The Policing and Criminal Justice program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines training in policing and criminal justice with an education in a chosen academic discipline, which may be Human Geography, Political Science, Psychology or Sociology. For students majoring in Sociology, this four-year program leads to a BA (Honours) in Sociology and a diploma in Police Foundations from Niagara College. The program caters to the increasing demand in society for professionals who possess both solid applied skills and the substantive knowledge needed to apply them to the areas of policing and criminal justice. This would ordinarily involve attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Policing and Criminal Justice program are available from the Office of the Dean of Social Sciences.

During Years 1, 2 and 4 of the program, students will take courses at Brock University.

During Year 3, students will complete the Police Foundations Accelerated Program, taking courses at Niagara College. In addition to taking a variety of courses in topic areas such as Criminal and Civil Law, Interviewing and Investigations, Provincial Offenses, and Fitness/Lifestyle Management, students will engage in required practical volunteer work.

Students will normally apply for admission to the program following the successful completion of Year 1 courses, as specified below. Applicants must have a minimum 70 percent overall average to be considered for admission to the program and must have no more than 8.0 overall credits, at least 4.0 of which must have been earned at Brock. Volunteering experience is an asset. Successful applicants must maintain an overall B average during Year 2 and meet other program requirements to continue in the program and to enter the Police Foundations Accelerated Program at Niagara College.

Enrolment in this program is limited, and admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details for the Policing and Criminal Justice program are available from the Office of the Dean of Social Sciences.

Program Notes

1. COMM 3P51 recommended for Communications Studies majors.
2. POLI 3P11 recommended in Year 2, POLI 3P15 and 3P18 recommended in Year 3 and POLI 4P01 and 4P19 recommended in Year 4 for Political Science majors.
3. In the 20 credit Honours degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In this 20 credit BA with Major degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least four and one-half credits must be numbered 2(alpha)90 or above; at least one and one-half credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Communication Studies

Year 1

- COMM 1F90
- FILM 1F94
- one of POLI 1F90, PSYC 1F90, SOCI 1F90
- POLI 1P50
- one Sciences context credit
- one-half elective credit

Year 2

- COMM 2F50, 2P15, 2P26, 2P51, 2P65 and 3P14
- one credit from COMM 2P16, 2P18, 2P20, 2P21, 2P55, 2P90, 2P91
- WRIT 1P93 or 1P94

Year 3

- taken at Niagara College

Year 4

- COMM 3P15, 3P65 and 4P51
- COMM 3P93 or 3Q93
- one-half COMM credit numbered 2(alpha)90 or above (see program note 1)
- two COMM credits numbered 3(alpha)90 or above
- one-half elective credit

Human Geography

Year 1

- GEOG 1F90 and 1F91
- one of POLI 1F90, PSYC 1F90, SOCI 1F90
- one of POLI 1P50, WRIT 1P93, 1P94
- one Humanities context credit
- one-half elective credit

Year 2

- GEOG 2P01, 2P07, 2P10 and 2P12
- one credit from GEOG 2P02, 2P03, 2P06, 2P13
- one GEOG credit numbered 2(alpha)90 or above from Group A or C (see Geography department)
- one of POLI 1P50, WRIT 1P93, 1P94 (not taken in Year 1)
- one-half elective credit

Year 3

- taken at Niagara College

Year 4

- GEOG 3P57
- one and one-half GEOG credits numbered 2(alpha)90 or above from Group A or C (see Geography department; GEOG 3P05, 3P53, 3P74 recommended)
- three GEOG credits numbered 3(alpha)90 or

above from Group A or C (see Geography department)

Political Science

Year 1

- POLI 1F90 and 1P50
- PSYC 1F90 or SOCI 1F90
- one Humanities context credit
- one Sciences context credit
- one-half elective credit

Year 2

- POLI 2P80, 2P99 and 2Q98
- one of POLI 2P91, 2P92, 2P93
- one POLI credit numbered 2(alpha)90 or above (see program note 2)
- one-half POLI credit numbered 2(alpha)90 or above from political theory list
- one PSYC or SOCI credit
- WRIT 1P93 or 1P94

Year 3

- taken at Niagara College

Year 4

- POLI 3P91 or 3P92
- POLI 3P98 or 4P50
- one POLI credit numbered 2(alpha)90 or above (see program note 2)
- one POLI credit numbered 3(alpha)90 or above
- one POLI credit numbered 4(alpha)00 or above (see program note 2)
- one elective credit

Sociology

Year 1

- SOCI 1F90
- POLI 1F90 or PSYC 1F90
- POLI 1P50
- one Humanities context credit
- one Sciences context credit
- one-half elective credit

Year 2

- SOCI 2P10, 2P11, 2P12 and 2P13
- one SOCI credit numbered 2(alpha)00 or above
- one and one-half SOCI credits numbered 2(alpha)90 or above
- WRIT 1P93 or 1P94

Year 3

- taken at Niagara College

Year 4

- SOCI 3P00, 3P01 and 3P12
- three SOCI credits numbered 3(alpha)90 or above
- one-half elective credit

BA with Major Program

Psychology

Year 1

- PSYC 1F90
- POLI 1F90 or SOCI 1F90
- POLI 1P50
- one-half POLI or SOCI credit
- one Humanities context credit
- one Sciences context credit

Year 2

- PSYC 2F23, 2P24, 2P25, 2P30 and 2P31
- one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
- WRIT 1P93 or 1P94

Year 3

- taken at Niagara College

Year 4

- PSYC 3P30
- two and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99
- one-half POLI or SOCI credit

Political Science

Chair

Ingrid Makus
William Mathie (as of July 1, 2009)

Professors Emeriti

Carl Baar, William H. N. Hull, W. D. Kenneth Kernaghan, William A. Matheson, J. Patrick Sewell

Professors

Daniel Madar, David T. Siegel, Garth Stevenson

Associate Professors

Leah Bradshaw, Charles Burton, Terrance G. Carroll, Hevina Dashwood, Juris Dreifelds, Paul Hamilton, Matthew Hennigar, Pierre Lizée, Ingrid Makus, William Mathie, Livianna Tossutti

Assistant Professors

Timothy Heinmiller, Larry Savage

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Dorothy Krynicki

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<http://www.brocku.ca/politicalscience/>

Politics affects everyone. It is through politics that the future of the world we inhabit is shaped. Aristotle called politics the master science because he recognized how wide and pervasive politics is. The interests of political scientists are diverse. They may include conflict at city hall or in the courtroom; the arguments and processes through which our national existence might be preserved; the collapse of Communism and the struggle to establish new political arrangements in its place; the role of pressure groups in shaping public policy; electoral reform; the control of civil servants; the rule of law among nations; the place of moral principle and national interest in the conduct of foreign policy; or how far any citizen might have the right or duty to disobey an unjust law. Political Science offers us the opportunity to become freer human beings and citizens because, whatever the subject of our immediate inquiry, the focus is always upon the ideas, institutions and processes that shape our lives.

The BA Honours program provides students with the opportunity for a more intensive examination of issues in the field.

Political Science may be combined at the Honours or Pass level with other disciplines, the choice depending upon the student's interests and capabilities. As well, it is possible, within the departmental offerings, to arrange a thematic program of study around a selection of courses built to suit the student's particular interests.

All students in Political Science especially those proceeding to graduate studies or to a career in the public service, are encouraged to become proficient in a language other than English, normally French. Students who develop interests in a particular geographical area are urged to select related courses in history, language and literature. MATH 1F92 provides a sound background in those skills often employed in modern social science research. Questions about the Political Science program should be directed to the Undergraduate Program Adviser.

Public Administration Co-operative (Co-op)

Public administration is the study of the political, legal and managerial dimensions of the public sector. Designed to equip students with the necessary skills, knowledge and practical experience to provide them with a competitive edge in seeking employment in the Federal, Provincial or Municipal levels of government, the Public Administration Co-op program combines academic and work terms over a four and one-half year period. Students spend two and one-half years in an academic setting studying political science with a specialization in public administration and public policy prior to their first work placement. In addition to the current fees for courses in academic study terms, co-op students are assessed an annual administration fee (see Schedule of Fees).

Eligibility to continue is based on the student's major average and non-major average. A student with a minimum 70 per cent major average and a minimum 60 per cent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Public Administration Co-op program but may continue in the Public Administration stream. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted to the Co-op program only if approved by the departmental Co-op Admissions Committee.

The Public Administration Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

Court and Tribunal Agent-Seneca College

The Court and Tribunal Agent program involves courses offered through Brock and Seneca College of Applied Arts and Technology. Court and tribunal agents (paralegals) are legally qualified to offer specified legal services directly to the public for a fee without the supervision of a lawyer. The Seneca program is designed to provide students with an understanding of general law principles, legal ethics, small business practices, and other legal subjects. Students are also required to complete a field placement at the end of their year at Seneca. Students who successfully complete the requirements for this program will be granted a Bachelor of Arts degree from Brock (majoring in Political Science), and a Court and Tribunal Agent diploma from Seneca College. Gaining both a degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and Seneca program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Court and Tribunal program are available from the Office of the Dean of Social Sciences.

Emergency Management-Sheridan College

The Emergency Management program involves courses offered through Brock and Sheridan College of Applied Arts and Technology. This four-year program combines courses and training in Emergency Management at Sheridan College with an Honours degree in Political Science at Brock. The program caters to individuals who wish to have a career in Emergency Management for Regional, Provincial, and National governments. The program allows students to gain both solid applied skills and training in Emergency Management, and a strong theoretical knowledge about a variety of topics in Political Science. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a certificate in Emergency Management from Sheridan

College. Gaining both a degree and this certificate would ordinarily involve attending college after gaining a university degree, but the Brock and Sheridan program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Emergency Management program are available from the Office of the Dean of Social Sciences.

Law Clerk-Seneca College

The Law Clerk program involves courses offered through Brock and Seneca College of Applied Arts and Technology. Law clerks assist lawyers with a variety of tasks in both private law firms and in legal departments in government and industry. This program will allow students to become familiar with the general principles of law and receive training in specific skills that are appropriate for law clerks. Areas of concentration include Real Estate, Corporate and Commercial Law, and Litigation. Upon completion of this program, students will have satisfied the educational requirements for associate level membership in the Institute of Law Clerks of Ontario. Students are also required to complete a field placement at the end of their year at Seneca. Students who successfully complete the requirements for this program will be granted a Bachelor of Arts degree from Brock (majoring in Political Science), and a Law Clerk diploma from Seneca College. Gaining both a degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and Seneca program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Law Clerk program are available from the Office of the Dean of Social Sciences.

Policing and Criminal Justice-Niagara College

The Policing and Criminal Justice program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines training in policing and criminal justice with an education in a chosen academic discipline, which may be Human Geography, Political Science, Psychology or Sociology. For students majoring in Political Science, this four-year program leads to a BA (Honours) in Political Science and a diploma in Police Foundations from Niagara College. The program caters to the increasing demand in society for professionals who possess both solid applied skills and the substantive knowledge needed to apply them to the areas of policing and criminal justice. Normally, this involves attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Policing and Criminal Justice program are available from the Office of the Dean of Social Sciences.

Please consult the Policing and Criminal Justice entry for a listing of program requirements.

Political Science and Labour Studies-George Brown College

This program involves courses offered through Brock and George Brown College of Applied Arts and Technology. This four-year program combines courses and training in applied labour studies settings at George Brown College with a degree in Political Science and Labour Studies at Brock. The program caters to individuals who wish to have a career in a wide variety of areas including unionized environments, occupational health and safety, politics, or human resources. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and two certificates from George Brown College 1) a certificate in Contemporary Labour Perspectives from the George Brown School of Labour, and 2) a Post-Graduate Certificate in Human Resources Management. Gaining both a degree and these certificates

would ordinarily involve attending college after gaining a university degree, but the Brock and George Brown program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for this Political Science and Labour Studies program are available from the Office of the Dean of Social Sciences.

Please consult the Labour Studies entry for a listing of program requirements.

Political Science and Labour Studies-Mohawk College

This program involves courses offered through Brock University and Mohawk College of Applied Arts and Technology. This four-year program combines training in a variety of applied labour studies settings at Mohawk College with an honours degree in Political Science and Labour Studies at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in various aspects of labour studies. The program leads to career opportunities in a wide variety of areas including unionized environments, occupational health and safety, politics, and human resources. Obtaining both an honours degree and a college certificate would ordinarily involve at least five years of study, but this Brock-Mohawk program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for this Political Science and Labour Studies program are available from the Office of the Dean of Social Sciences.

Please consult the Labour Studies entry for a listing of program requirements.

Program Notes

1. Students are encouraged to take courses from at least three of the designated subfields in Political Science.

2. With the permission of the Undergraduate Adviser, methods courses which are required in other departments/centres may be considered equivalents for POLI 2P80, 3P91 or 3P92.

3. Students in the Honours program with concentration in Public Law are strongly recommended to complete SOCI 1F90.

4. WRIT 1P93 is recommended.

5. POLI 1P91, WRIT 1P93, 1P94, FNCE 2P51, MGMT 1P51, 1P52, ECON 1P92 recommended in year 1 and OBHR 2P51 is recommended in year 2.

6. Students may not take ACTG 2P40 to satisfy elective requirement.

7. WRIT 1P93 or 1P96 recommended in year 1 and POLI 3P11, 3P52, 3P17, 3P66 recommended in year 3 and year 4.

8. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Political Science Subfields

The courses numbered 2(*alpha*)00 or above fall into a number of fields and the Department advises Political Science majors to select courses from at least three of these fields.

Canadian Politics

- POLI 2F12*, 2P03
- POLI 3P05, 3P12, 3P13, 3P15, 3P16, 3P17, 3P18, 3P28, 3P72
- POLI 4P12, 4P14, 4P15, 4P19, 4P71, 4P75, 4V10-4V19, 4V60-4V69

Comparative Politics

- POLI 2F30*, 2P42, 2P47, 2P94, 2P97, 2V40-2V49
- POLI 3P03, 3P33, 3P43, 3P44, 3P45, 3P71, 3P72
- POLI 4P32, 4P34, 4P36, 4P38, 4P39, 4P47, 4P73, 4V30-4V39

International Politics

- POLI 2F20*, 2P47
- POLI 3P21, 3P26, 3P28
- POLI 4P20, 4P21, 4P22, 4P26, 4P27, 4P72, 4V20-4V29

Political Theory

- POLI 2P91*, 2P92*, 2P93
- POLI 3P02, 3P04, 3P05, 3P07, 3P71, 3P93, 3V00-3V09
- POLI 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P09, 4P70, 4V00-4V09

Public Policy and Administration

- POLI 2P99*, 2Q98*
- POLI 3P11, 3P52, 3P66, 3P67, 3P98
- POLI 4P10, 4P50, 4P52, 4P54, 4P59, 4P66, 4P74, 4P75, 4V50-4V59, 4V60-4V69

*recommended for students intending to take other courses in this field in years 3 and 4.

Honours Program

Year 1

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- one Humanities context credit
- one Science context credit
- two elective credits (see program note 4)

Year 2

- POLI 2P80 (see program note 2)
- one of POLI 2P91, 2P92, 2P93
- two POLI credits numbered 2(*alpha*)00 or above (see program note 1)
- two elective credits

Year 3

- POLI 3P91 or 3P92 (see program note 2)
- one-half credit from political theory list
- two POLI credits numbered 2(*alpha*)90 or above (see program note 1)
- two elective credits

Year 4

- One-half POLI credit numbered 2(*alpha*)00 or above
- two and one-half POLI credits numbered

3(*alpha*)90 or above

•two elective credits

Public Administration Co-op (Honours only)

Students admitted to the Co-op program must follow an approved program pattern. The most common pattern is listed below; however, as courses are subject to change and availability, students' schedules must be approved by the Co-op Director.

Year 1

- POLI 1F90 and 1P98
- MGMT 1P51 and 1P52
- one Humanities context credit
- one Science context credit
- one-half elective credit (see program note 4)

Year 2

- POLI 0N90, 2F12, 2P80, 2P99, 2Q98 and 3P67
- one of POLI 2P91, 2P92, 2P93
- one-half POLI credit numbered 2(*alpha*)00 or above
- one elective credit

Year 3

Fall Term:

- POLI 3P11 and 3P98
- POLI 3P91 or 3P92
- one-half credit from political theory list
- one-half elective credit

Winter Term:

- POLI 0N01

Spring/Summer Sessions:

- POLI 0N02

Year 4

- POLI 4P50
- one credit from POLI 4P10, 4P52, 4P54, 4P59 and 4P66
- one-half POLI credit numbered 2(*alpha*)00 or above
- one-half POLI credit numbered 3(*alpha*)90 or above
- two and one-half elective credits

Spring/Summer Sessions:

- POLI 0N03

Year 5

Fall Term:

- Two and one-half elective credits

International Political Economy (Honours only)

Consult International Political Economy entry for a listing of program requirements.

Pass Program

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
 - POLI 2P80 (see program note 2)
 - one of POLI 2P91, 2P92, 2P93
 - two and one-half POLI credits numbered 2(*alpha*)00 or above
 - two and one-half POLI credits numbered 2(*alpha*)90 or above (see program notes 1, 4 and 8)
 - one Humanities Context credit
 - one Science Context credit
 - six elective credits (see program note 4)
-

Combined Major Program

Students are likely to find that both parts of their program benefit if they combine studies in Political Science with studies in another Social Science, such as Film Studies, Economics, Geography or Sociology; or with studies in a related field in a different faculty, such as Business or History. Political Science also provides a sound disciplinary core when combined with a program of study in Canadian Studies, Labour Studies, Liberal Arts or Women's Studies.

Honours

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 2P80
- POLI 3P91 or 3P92
- one of POLI 2P91, 2P92, 2P93
- one-half credit from the political theory list
- two POLI credits numbered 2(*alpha*)00 or above
- one POLI credit numbered 2(*alpha*)90 or above
- one POLI credit numbered 3(*alpha*)90 or above (see program notes 1, 2, 4 and 8)

Pass

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 2P80
- one of POLI 2P91, 2P92, 2P93
- one and one-half POLI credits numbered 2(*alpha*)00 or above
- one and one-half POLI credits numbered 2(*alpha*)90 or above (see program notes 2, 4 and 8)

Political Science and Business (Honours only)

Year 1

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- ECON 1P91 and 1P92
- MGMT 1P93 and 1P96
- one Humanities context credit (FREN 1F90 recommended)
- one Science context credit

Year 2

- POLI 2F12 and 2P80
- ACTG 1P91, 2P12 and 2P40
- MATH 1P98
- OPER 2P91
- one of POLI 2P91, 2P92, 2P93
- one-half credit from political theory list

Year 3

- POLI 2P99 and 2Q98
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- one and one-half credits from POLI 3P11, 3P15, 3P16, 3P18, 3P21, 3P26, 3P33, 3P52, 3P66
- one elective credit (ECON 3P14, 3P15 recommended)

Year 4

- POLI 3P91 or 3P92
- ETHC 3P82
- FNCE 3P93
- OBHR 3P97
- one and one-half credits from POLI 4P01, 4P14, 4P15, 4P21, 4P50, 4P52, 4P54, 4P59
- one-half OBHR credit numbered 4(*alpha*)90 to 4(*alpha*)99
- one elective credit

Political Science and Labour Studies

Consult the Labour Studies entry for a listing of program requirements.

Certificate Program

The Political Science Department offers programs leading to a Certificate in Public Administration and a Certificate in Public Law. These programs provide an overview for interested people who do not wish to proceed to a degree or those who have already obtained a degree with a major other than Political Science. Only under exceptional circumstances

and with special permission from the department will applicants who already have a degree with a major (or combined major) in Political Science be admitted.

The Certificate in Public Administration is of interest to people already employed in the public sector environment and wanting to embark on a program of part-time studies.

The Certificate in Public Law is of interest to people already employed in the legal and justice fields who wish to embark on a program of part-time studies and to those with Community College qualifications in law and justice who would like to add university-level certification.

The requirements for admission to the certificate programs are the same as for admission to the degree program. For those without a degree, the equivalent of five approved credits selected from the lists below are required.

See "Certificate Requirements" under Academic Regulations.

Certificate in Public Administration

The Certificate in Public Administration is awarded upon completion of the following courses with a minimum overall average of 70 percent:

- POLI 1P98, 2F12 and 4P50
- one-half POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 2P99 and 2Q98
- one of POLI 3P11, 3P67, 3P98
- one elective credit approved by the Undergraduate Program Adviser

Under exceptional circumstances, the Department may require the substitution of other relevant courses for those usually required.

Certificate in Public Law

The Certificate in Public Law is awarded upon completion of the following courses with a minimum overall average of 70 percent:

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 2F12, 3P18 and 3P26
- one credit from POLI 3P11, 3P15, 3P66, 4P01, 4P14, 4P19, 4P34
- one credit from POLI 3P04, 3P07, 3P11, 3P15, 3P52, 3P66, 4P01, 4P14, 4P19, 4P34, 4P50

Concentration in Public Law

Public Law consists of those areas of the law that deal with the relationship between the individual and the state or relationships between jurisdictions. These include administrative, constitutional, criminal, international and municipal law.

SOCI 1F90, 2P33, 2P61, 2P62, 2P65, 3P33, 3P61, 3P62, 3P64, 3P82, 4P33, 4P61 are public law-related courses recommended for the elective credits for the Honours degree.

Students may earn a Concentration in Public Law by successfully completing the following courses as part of the requirements for a BA (Honours) in Political Science:

- POLI 2F12, 3P18, 3P26
- two and one-half credits from POLI 1P91, 2P03, 2P47, 2P93, 2P99, 2Q98, 3P02, 3P04, 3P07, 3P11, 3P66, 3P67
- two credits from POLI 4P01, 4P14, 4P19, 4P20, 4P34, 4P50, 4P95

Minor Program

Minor in Canadian Politics

Students in other disciplines may obtain a minor in Canadian Politics within their degree program by successfully completing the following credits with a minimum 60 percent overall average:

- One POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99
- POLI 2F12
- two POLI credits from Canadian Politics list
- one POLI credit numbered 3(*alpha*)00 or above from Canadian Politics list

Minor in Comparative Politics

Students in other disciplines may obtain a minor in Comparative Politics within their degree program by successfully completing the following credits with a minimum 60 percent overall average:

- One POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99
- POLI 2F30
- two POLI credits from Comparative Politics list
- one POLI credit numbered 2(*alpha*)90 or above from Comparative Politics list

Minor in International Politics

Students in other disciplines may obtain a minor in International Politics within their degree program by successfully completing the following credits with a minimum 60 percent overall average:

- One POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99
- POLI 2F20
- two POLI credits from International Politics list
- one POLI credit numbered 3(*alpha*)00 or above from International Politics list

Minor in Political Philosophy

Students in other disciplines may obtain a minor in Political Philosophy within their degree program by successfully completing the following credits with a minimum 60 percent overall average:

- One POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99
- one credit from POLI 2P91, 2P92, 2P93
- three POLI credits from Political Philosophy list

Minor in Political Science

Students in other disciplines may obtain a minor in Political Science within their degree program by successfully completing the following credits with a minimum 60 percent overall average:

- One POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99
- one of POLI 2P91, 2P92, 2P93
- two and one-half POLI credits
- one POLI credit numbered 2(*alpha*)90 or above

Minor in Public Policy and Administration

Students in other disciplines may obtain a minor in Public Policy and Administration within their degree program by successfully completing the following credits with a minimum 60 percent overall average:

- One POLI credit numbered 1(*alpha*)00 to 1(*alpha*)99
- POLI 2P99 and 2Q98
- three POLI credits from Public Policy and Administration list

Brock/Colleges Articulation Agreement

Court and Tribunal Agent-Seneca College

Year 1

- POLI 1F90
- one Humanities Context credit
- one Science Context credit
- two elective credits (see program notes 5 and 6)

Year 2

- POLI 2F12, 2P03, 2P80, 2P99 and 2Q98
- one credit from POLI 2P91, 2P92, 2P93, 3P04, 3P05, 3P02, 3P07, 3P71
- one-half POLI credit numbered 2(*alpha*)00 to 2(*alpha*)99
- one-half elective credit (see program notes 5 and 6)

Year 3

- taken at Seneca College

Year 4

- POLI 3P18
- POLI 3P91 or 3P92
- one credit from POLI 3P11, 3P33, 3P52, 3P66, 3P67
- two and one-half credits from POLI 4P01, 4P14, 4P19, 4P20, 4P34, 4P50, 4P52, 4P54, 4P59, 4P62
- one-half elective credit (see program note 6)

Emergency Management-Sheridan College

Year 1

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 1P50
- one Humanities Context credit
- one Science Context credit
- one and one-half elective credits (see program note 7)

Year 2

- POLI 2P80, 2P99 and 2Q98
- one of POLI 2P91, POLI 2P92, POLI 2P93
- one POLI credit numbered 2(*alpha*)00 to 2(*alpha*)99
- one POLI credit numbered 2(*alpha*)90 to 3(*alpha*)99 (see program note 7)
- one-half additional credit from political theory list
- one-half elective credit

Year 3

- taken at Sheridan College

Year 4

- POLI 3P91 or 3P92
- one of POLI 3P98, 4P50, 4P52, 4P54 4P50, 4P59
- one and one-half POLI credits numbered

- 2(alpha)90 to 3(alpha)99 (see program note 7)
 •two POLI credits numbered 4(alpha)00 to 4(alpha)99
 •one-half elective credit

Law Clerk-Seneca College

Year 1

- POLI 1F90
- one Humanities Context credit
- one Science Context credit
- two elective credits (see program notes 5 and 6)

Year 2

- POLI 2F12, 2P03, 2P80, 2P99 and 2Q98
- one credit from POLI 2P91, 2P92, 2P93, 3P04, 3P05, 3P02, 3P07, 3P71
- one-half POLI credit numbered 2(alpha)00 to 2(alpha)99
- one-half elective credit (see program notes 5 and 6)

Year 3

- taken at Seneca College

Year 4

- POLI 3P18
- POLI 3P91 or 3P92
- one credit from POLI 3P11, 3P33, 3P52, 3P66, 3P67
- two and one-half credits from POLI 3P98, 4P01, 4P14, 4P19, 4P20, 4P34, 4P50, 4P52, 4P54, 4P59, 4P62
- one-half elective credit (see program note 6)

Policing and Criminal Justice-Niagara College

Consult the Policing and Criminal Justice entry for a listing of program requirements.

Political Science and Labour Studies-George Brown College

Consult the Labour Studies entry for a listing of program requirements

Political Science and Labour Studies-Mohawk College

Consult the Labour Studies entry for a listing of program requirements

Master of Arts (MA) Program

The MA program allows for study and directed research with a concentration in several fields including Canadian politics, comparative politics, international relations, political theory and public administration. For details about graduate courses and programs, see the Graduate Calendar.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

POLI 1F90

Introduction to Political Science

Introduction to the ideas, institutions and processes that shape Canadian and world politics.

Lectures, seminar, 3 hours per week.

POLI 1P50

Introduction to Dispute Resolution

Theoretical, practical and ethical issues relating to disputes and dispute resolution from the perspective of political science and other disciplines emphasizing alternative dispute resolution procedures.

Lectures, seminar, 3 hours per week.

Note: major credit will not be granted to POLI majors.

POLI 1P91

Courts and Politics: Great Cases in Constitutional Law

Constitutional cases - past and current, Canadian and non-Canadian - as an introduction to fundamental issues in the study of politics, and to the analysis of political and social phenomena.

Lectures, seminar, 3 hours per week.

POLI 1P92

Freedom and Power in the New Millennium
 Topics include the ideological and imperial divisions of the 21st century; variations on notions of freedom and rights; considerations on obligations of citizenship in the age of technology.

Lectures, seminar, 3 hours per week.

POLI 1P93

Canada and the Global Community

Impact of politics, economics, culture, society and globalization on Canada's role in the community of nations. Canadian political system in comparative perspective and trends in Canada's political development.

Lectures, seminar, 3 hours per week.

POLI 1P94

Politics, Power and Persuasion

Great leaders and tyrants distinguished by their ability to shape public opinion. Exploration of the nature of politics through the examination of the use and abuse of words and speech to acquire political power and to create or resolve political crises.

Lectures, seminar, 3 hours per week.

POLI 1P95

Statehood, Ethnicity and Nationalism

Evolution of the modern state, origin of modern ethnic identities and politics of multi-ethnic states which are the vast majority in the international community. Case examples explore accommodation and conflict in situations of competing ethnic identities and nationalisms, with outcomes ranging from stable rule to civil war.

Lectures, seminar, 3 hours per week.

POLI 1P98

Politics, Policy and Public Service

Understanding politics and government through an examination of the political and managerial dimensions of public service. Topics include the public interest, business-government relations, public policy, law, ethics, the media and electronic government.

Lectures, seminar, 3 hours per week.

POLI 2F12

The Government and Politics of Canada

Political institutions and processes of Canada including the constitution and federalism, regions and regionalism, the political attitudes and behaviour of Canadians, parties and elections, and the policy process.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 2F20

International Relations

Characteristics of the international system, the process of foreign policy formulation in individual states and the means of acting internationally.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 2F30

Dictatorship to Democracy: Politics in the Contemporary World

Politics in industrialized, capitalist, state socialist and developing countries. Compares types of institutions, parties and political cultures and recent developments in a variety of countries. Topics include the challenges of European integration, democratization and the relationship between capitalism and democracy.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 2P03

Labour Law and Labour Unions

(also offered as LABR 2P03)

Labour law and public policy relating to work and organized labour in provincial and federal jurisdictions; institutions in the labour market such as the Labour Relations Board; the structure and functioning of organized labour in Canada; labour law and union organization in other countries.

Lectures, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, LABR 1F90 or permission of the instructor.

POLI 2P42

The Rise of China

China's emergence as an economic and political power: political, cultural and economic implications. Impact of China on Canada as a Pacific nation from government and business perspectives. Implications for Canadian identity of greater China as Canada's main source of immigrants.

Lectures, seminar, 3 hours per week.

Note: this multidisciplinary course is designed for all students interested in Canada's increasing integration into the Asia-Pacific region.

POLI 2P47

Rights Across Borders

Current issues in application, verification and enforcement of UN Covenants on Torture and Human Rights. New concept of "human security" as a means to revitalize international relations in the post-Cold War era.

Lectures, seminar, 3 hours per week.

POLI 2P80

Political Analysis

Research methodologies and skills commonly used by political scientists. Topics include the evolution of political science, the ways in which empirical political research is carried out, advantages and limitations of the scientific approach in political analysis.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* POLI 2P91

Political Theory I

(also offered as LART 2P91)

Socratic origins of political philosophy as understood by Plato and Aristotle; may include their Christian, Jewish, Islamic successors and Machiavelli's critique.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Note: strongly recommended that students take this course if they intend to take POLI 2P92. Completion of this course will replace previous assigned grade and credit obtained in LART 2P91.

POLI 2P92

Political Theory II

Modern political philosophy; may include the writings of Machiavelli, Hobbes, Locke, Rousseau, Kant, Hegel, Tocqueville, Marx and Nietzsche.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Note: strongly recommended that students have taken POLI 2P91.

POLI 2P93

Liberal Democracy

Classical and contemporary variants on liberty and democracy and critical alternatives to liberal democracy.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 2P94

Russia, Ukraine and other Successor States of the USSR

Historical, geographical and demographic factors that have shaped post-Soviet societies. Nationalism, ethnic tensions, economic debates, societal values and behaviour, leadership and forces affecting stability and division.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 2P97

The Government and Politics of the United States

American political system and the institutions of the federal government in the context of the constitutional separation of powers and the political party structure. Related topics include federalism, elections and voting behaviour, civil rights and selected public policy issues.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* POLI 2P99

Introduction to Canadian Public Policy

(also offered as LABR 2P99)

Major theories, approaches and concepts including the nature of public policy studies, contending theories of the state and public policy making, the growth of the state and the expansion of the scope of public policy activities, and alternative modes of state intervention.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, LABR 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in POLI 3P65.

* POLI 2Q98

Introduction to Canadian Public Administration

(also offered as COMM 2Q98 and LABR 2Q98)

Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; human resources and budgetary processes; ethics and accountability.

Lectures, seminar, 3 hours per week.

Prerequisite: one of one POLI credit numbered 1(alpha)90 to 1(alpha)99, COMM 1F90, LABR 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in POLI 2F98 or 3P50.

POLI 2V40-2V49

Government and Politics of a Selected Nation State

Political processes and institutions of a nation state not included among regular departmental offerings.

Lectures, seminar, 3 hours per week.

POLI 2V70-2V79

Politics and Culture

Relationship between politics and aspects of culture such as film, literature or music.

Lectures, seminar, 3 hours per week.

POLI 3P02

Citizenship

Studies in citizenship and political rule, and the relation between private and public virtues as they have been examined by selected political philosophers in the Western tradition.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P03

Global Labour Issues

(also offered as LABR 3P03)

Shaping of people's changing experience of work by global economic and political change. Topics may include globalization, de-industrialization, class conflict and the relationship between work and the environment.

Seminar, 3 hours per week.

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, LABR 1F90 or permission of the instructor.

POLI 3P04

Politics, Law and Justice

Contrasting accounts of the role of justice and other moral principles in political life and in the conduct of political leaders and states.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P05

Canadian Political Thought

Selected works of 20th-century Canadian thinkers such as Harold Innis, Marshall McLuhan, Northrop Frye, George Grant, Charles Taylor and John Ralston Saul. Topics include the relationships among art and technology, politics and myth, culture and identity.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P07

Democracy in the United States

Examines the attempt to devise, establish and preserve a new political order in the United States based on the principles of liberalism, through discussion of the Declaration of

Independence, the Constitution, the Federalist Papers, and selected judicial decisions. Crisis for that order posed by the Civil War. Analysis of that order by Tocqueville, George Grant and others.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P11

Local Government

Local government and politics in Canada with particular reference to Ontario. Topics include municipal organization, metropolitan and regional government, provincial-municipal-relations, elections, councils and councillors, citizen participation, property taxation and municipal finance, selected policy areas and theories of local government.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, (POLI 2P62) or permission of the instructor.

POLI 3P12

Canadian Political Parties and Electoral Behaviour

Evolution of the party system, platforms of key parties in Canadian history, reasons for their electoral success or failure examined from the perspective of theories and research on voting behaviour.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Note: POLI 2F12 strongly recommended.

* POLI 3P13

The Politics of Labour

(also offered as LABR 3P13)

Relations between the labour movement and the state, with particular reference to Canada, including tripartism, corporatism, incomes policy, organized labour and political parties, industrial democracy and worker participation.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P15

Politics in Ontario

Major aspects of political life in Ontario, including province-building, voting behaviour, party systems, policy making and administrative apparatus.

Seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* POLI 3P16

Politics in Québec

(also offered as CANA 3P16)

Québec's political, social and economic evolution since 1945. Topics include old and new varieties of nationalism, the Quiet Revolution, the changing roles of church and state, the decline of the Anglophone minority and Québec's impact on Canadian federalism.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, CANA 2P91, 2P92 (2F91) or permission of the instructor.

* POLI 3P17

Politics and the Mass Media in Canada

(also offered as COMM 3P17)

Canadian mass media and their relationship to the political process.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, COMM 2F50 or permission of the instructor.

POLI 3P18

Law and Politics

Canadian constitutional law emphasizing the protection of civil liberties both before and after the adoption of the Charter of Rights. Courts in both legal and political perspectives.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P21

Introduction to International Political Economy

Survey of theoretical perspectives and policy-related frameworks necessary to the study of the international political economy. Topics may include relations among production, finance and trade; role of transnational corporations and international economic institutions; politics of underdevelopment; emerging issues such as gender and work, the environment, new technologies.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

POLI 3P26

International Law and International Organization

International law and organization in the changing context of international politics. Activities and mechanisms of the United Nations, the International Court of Justice and the International Criminal Court. Tensions between law and power at the international level.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

POLI 3P28

Canadian Foreign Policy

Foreign policy formulation process in Canada; significant factors, both domestic and external, which contribute to the shaping of specific policy objectives.

Seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

* POLI 3P33

The State and Economic Life (also offered as LABR 3P33)

Ideological perspectives on the state-economy relationship; policy instruments including taxation, regulation and public ownership; alternative models of economic policy including socialism, Keynesianism and neo-liberalism.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

POLI 3P43

Politics in the Developing World

Political institutions, processes and social movements in the developing world, including the role of international organizations and transnational corporations. Countries examined may be drawn from Africa, Asia and Latin America.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

POLI 3P44

Politics of the European Union

Political institutions, treaties and political processes of the European Union. Topics include accession of new members, democratic reform, public policy, member-state EU relations, and the new constitution.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

POLI 3P45

Politics in Advanced Democratic Systems

Comparative study of political institutions and processes of advanced democratic systems in Europe and elsewhere.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the

instructor.

POLI 3P52

Ethics in Government

Issues of responsible and ethical behaviour by elected and appointed government officials emphasizing the behaviour of public servants. Topics include conflicts of interest, political rights of public servants, political neutrality, administrative responsibility, confidentiality/freedom of information, privacy, accountability and the public interest.

Lectures, seminar, 3 hours per week.

Restriction: open to Public Administration co-op majors until date specified in the Registration guide.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

* POLI 3P66

Environmental Policy, Law and Administration

(also offered as TREN 3P66)

Development of the issue of pollution, including perceptions of the problem of different actors, public participation, governmental reactions and legislation, the implementation of potential solutions and international cooperation. Topics may include toxic wastes, acid rain, energy, the Great Lakes, risk assessment and ideologies.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

* POLI 3P67

Issues in Canadian Public Policy

(also offered as LABR 3P67)

Theories of policy development and their application to several different policy fields.

Lectures, seminar, 3 hours per week.

Restriction: open to Public Administration Co-op majors until date specified in the Registration guide.

Prerequisite: POLI 2P99 or permission of the instructor.

Note: specific fields will change from year to year.

* POLI 3P71

Gender and Politics

(also offered as WISE 3P71)

Theoretical and practical issues in the relationships among gender, sex and politics, such as sexual equality and its nature and implications for public and private life.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99, WISE 1F90 or

permission of the instructor.

* POLI 3P72

Women in Politics

(also offered as WISE 3P72)

Women's participation and influence in the political institutions, processes and policies of modern states emphasizing contemporary Canada.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99, WISE 1F90 or permission of the instructor.

POLI 3P91

Quantitative Political Analysis

Critically assessing public opinion polls in the news; statistical analyses of survey data using SPSS; describing and explaining political behaviour.

Lectures, lab, 3 hours per week.

Prerequisite: POLI 2P80.

POLI 3P92

Qualitative Political Analysis

Qualitative techniques in research design and political analysis: qualitative versus quantitative research, ethical problems, interviewing, participant and non-participant observation, content analysis, use of microcomputers in qualitative research.

Lectures, seminar, 3 hours per week.

Prerequisite: POLI 2P80.

POLI 3P93

Science, Politics and Philosophy

(also offered as LART 3P93)

Philosophic founding of modernity as a political and scientific project in selected works including Machiavelli's *Discourses*, Bacon's *New Organon*, Galileo's *Dialogue Concerning the Two Chief World Systems*, Descartes' *Discourse on Method*, Hobbes's *Leviathan*, Milton's *Paradise Lost*, Rousseau's *Discourse on the Arts and Sciences* and Smith's *Wealth of Nations*.

Seminar, 3 hours per week.

Completion of this course will replace previous assigned grade and credit obtained in POLI (GBLS) 3P90.

POLI 3P98

Public Sector Management

Management issues in public sector organizations, including budgeting, management of human and financial resources, ethics and values, and implementation.

Lectures, seminar, 3 hours per week.

Prerequisite: POLI 2Q98 or permission of the instructor.

POLI 3V00-3V09

Politics and Theory

Philosophic issues raised by various questions in contemporary moral and political life.

Lectures, seminar, 3 hours per week.

POLI 3V70-3V79

Special Topics in Political Science

Topics selected on the basis of instructional expertise and student interest.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or permission of the instructor.

POLI 3V90-3V99

Advanced Topics in Political Science

Topics selected on the basis of instructional expertise and student interest.

POLI 4F99

Honours Thesis

Individual study and research under faculty supervision.

Restriction: open to POLS (single or combined) majors with a minimum 78 percent major average and approval to year 4 (honours). Note: topics may come from any field in the discipline and may involve library research, field work and empirical analysis. Students must have a topic approved by the Chair and a faculty supervisor prior to registration.

* POLI 4P01

The Philosophy of Law

(also offered as LART 4P01)

Traditional and contemporary accounts of law and their implications for issues of contemporary concern.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P01.

* POLI 4P02

Ancient Political Theory

(also offered as LART 4P02)

Premodern political philosophy examined in the works of Plato and Aristotle emphasizing those features distinguishing ancient political science and philosophy from that of modernity.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P02.

* POLI 4P03

Modern Political Theory

(also offered as LART 4P03)

Modern political theory examined in selected texts. Topics may include historicism, consent, progress, equality or a selected author such as Rousseau, Kant, Hegel.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P03.

* POLI 4P04

Politics and Tyranny

(also offered as LART 4P04)

Comparative accounts of ancient and modern tyranny examined in light of the question: has political domination varied significantly in the Western tradition.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P04.

* POLI 4P05

Shakespeare's Politics

(also offered as LART 4P05)

Issues of justice; politics, law and morality; republican, monarchical and tyrannical government as explored in selected Shakespearean comedies, tragedies and histories.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors until date specified in the Registration guide. After that date open to ECUL, ENGL (single or combined) and HIST (single or combined) majors. Students must have either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P05.

* POLI 4P06

Philosophy, Politics and the Family

(also offered as LART 4P06)

Family relations and their significance for the political community as both have been treated by ancient and modern political philosophers and by contemporary feminists and their critics.

Seminar, 3 hours per week.

Prerequisites: POLI 2P91; POLI 2P92 (2F90), 2P93 (2P01 and 3P01) or permission of the

instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P06.

* POLI 4P07

Postmodern Political Theory

(also offered as LART 4P07)

Perspectives on the postmodern condition in the works of selected 20th-century thinkers. Topics may include notions on the self; aesthetics and politics; reason and power; the construction of meaning.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P07.

* POLI 4P09

Faith, Philosophy and Politics

(also offered as LART 4P09)

Examination of challenges based upon revelation of the sufficiency of unassisted human reason as a guide to human political action.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4P09.

POLI 4P10

Issues in Local Government

Policy making and service delivery in local government including economic development, fire, parks, policing, public health, recreation and social services.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours). Prerequisite: POLI 3P11 or permission of the instructor.

POLI 4P11

Critical Approaches to Social Research Design

(also offered as GEOG 4P11 and SOCI 4P11)

Application of social science skills in community and public-sector settings, including various qualitative and quantitative research strategies to empower communities and inform social policy development. Includes evaluation of a community agency or social

program of choice.

Seminar, 3 hours per week.

Restriction: open to POLI (single or combined), GEOG (single or combined), GEOG (Honours)/BEd, and SOCI (single or combined) majors until date specified in Registration guide. Students must have a minimum of 10.0 overall credits.

Prerequisite: one of POLI 2P80, GEOG 2P10, 2P12, SOCI 2P11 or permission of the Department Administrator.

POLI 4P12

Canadian Civil Society, Institutions and Political Culture

Role of interest groups, social movements and the non-profit voluntary sector in agenda-setting, advocacy, policy development and/or the delivery of community services.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P14

Federalism in Canada

Canadian concepts of federalism, judicial interpretation of the constitutional distribution of powers, the social, economic and cultural factors that influence federal-provincial relations, issues in federal-provincial relations, the impact of federalism on public policy, and the politics of constitutional change.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and LABR majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

* POLI 4P15

Canadian Political Economy

(also offered as LABR 4P15)

Political economy tradition in Canada, from the writings of Innis, Mackintosh and Creighton to contemporary neo-Marxist and dependency theorists. Topics may include foreign investment, regional development, the labour movement, resources and Canada's place in the new international economy.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), INPE and LABR majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P19

The Canadian Judicial Process

Procedures and processes of courts in civil and

criminal cases and the impact of these procedures and practices on the administration of justice.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P20

Globalization and Global Governance

Globalization of national politics and the reconstruction of politics at a global level. Topics may include policy problems linked to the effectiveness of international and national institutions; theoretical considerations on new concepts of politics and democracy in the globalized world.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P21

The Global Political Economy

Examination of international trade and monetary systems from the perspective of economic theory focussing on policy choices facing governments.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P22

Canada and the Developing World

Canada's role in addressing global inequality in a comparative context. Topics may include political economy of Canadian policies towards the developing world; international ethics; international cooperation on issues of vital interest to the developing world.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P26

International Politics and National Security

Conditions affecting the use of force in the post-Cold War international system. Basis of state security, the nature of threats and regional conflicts.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent

major average or approval to year 4 (honours).

POLI 4P27

Theories of International Relations

International relations theory emphasizing the nature of the international system and its relationship to the choices and actions of individual states.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

* POLI 4P32

Comparative Mass Media

(also offered as COMM 4P32)

Selected problems concerning the mass media and the political process in Canada and other countries.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and COMM (single or combined) majors with a minimum of 14.0 overall credits and either a minimum 70 percent major average or approval to year 4 (honours).

Prerequisite: POLI 3P17 or permission of the instructor.

POLI 4P34

Comparative Judicial Systems

Global expansion of judicial power and the role of courts in democratization, rights protection, political centralization, and resolving societal conflict. Domestic as well as supranational courts from around the world are considered, representing both common law and civil law systems. Topics include the success and failure of the "rights revolutions," the judicialization of politics, court reform, and justifications for judicial review.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P36

Revolution or Reform- Political Change in the Modern World

Comparative study of patterns of transformation and transition of totalitarian, authoritarian and paternalistic systems towards political pluralism and democracy. Democratization in selected regimes- Communist, nationalist and religious-in different parts of the world and the dynamics of political and social change.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P38

Nationalism and Ethnic Politics

Theory and case studies of the origins and resolution of national conflict, the mobilization of ethnic groups and the role of international forces in what have been viewed traditionally as domestic conflicts. Case studies situate Canada's ethnic tensions within a broader comparative perspective.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4P39

Elites and Power

Bases of power and of the degree of power concentration in government, industry, bureaucracy and the media in Canada, the United States and other selected countries. Characteristics, lifestyles, interrelationships and actions of the individuals in senior positions of power.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours). Prerequisite: POLI 2F30 or permission of the instructor.

POLI 4P47

Arab Politics

Topics include religion, pan-Arab nationalism and political culture; problems of economic development; the Palestinian factor in Arab politics; the Gulf War and its aftermath; and a comparative analysis of ways in which political processes and institutions have influenced and responded to these forces.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Prerequisite: POLI 2F30 or permission of the instructor.

POLI 4P50

Machinery of Government

Structures and processes of federal and provincial government in Canada. Emphasis on the operation of government departments, central agencies, regulatory agencies and crown corporations.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval

to year 4 (honours).

Prerequisite: POLI 2Q98 (2F98 or 3P50) or permission of the instructor.

POLI 4P52

Managing the New Public Organization

Political and managerial dimensions of new developments in government organizations. Topics include administrative reform, innovation, collective bargaining, human resource issues, budgeting and comparisons with business organizations.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours). Prerequisite: POLI 2Q98 (2F98 or 3P50) or permission of the instructor.

Note: open to non-POLS majors with relevant background in other disciplines and permission of the instructor.

* POLI 4P54

Business-Government Relations

(also offered as LABR 4P54)

Politics and management of relations between business organizations and governments in Canada emphasizing current research and issues. Topics include theories of business-government relations, the legislative and regulatory environment of business, public enterprise and privatization, lobbying, and interaction among government, business, media and labour.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), INPE and LABR majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Prerequisite: POLI 2Q98 (2F98 or 3P50) or permission of the instructor.

Note: open to non-POLS majors with relevant background in other disciplines and permission of the instructor.

POLI 4P59

Electronic Government and Democracy

Politics and management of information and information technology. Prospects for electronic democracy in such areas as citizen participation, electronic voting, lobbying and political campaigns. Implications of electronic government in such areas as service delivery, government reorganization, privacy, security, equity and accountability.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) and INPE majors with either a minimum of 14.0 overall credits and a minimum 70 percent

major average or approval to year 4 (honours).

POLI 4P66

Politics of Environmental and Resource Scarcity

Political and economic conditions leading to scarcity in various settings, and institutions and policies developed to govern rivalries and conflicts endemic to scarcity. Canadian cases in comparative perspective.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Prerequisite: one of POLI 2P99, 2Q98 (2F98 or 3P50), 3P66 or permission of the instructor.

POLI 4P70

Tutorial in Political Theory

Guided reading on an aspect of political theory not covered in the department's regular course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P71

Tutorial in Canadian Politics

Guided reading on an aspect of Canadian politics not covered in the department's regular course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P72

Tutorial in International Relations

Guided reading on an aspect of international relations not covered in the department's regular course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P73

Tutorial in Comparative Politics

Guided reading on an aspect of comparative politics not covered in the department's regular

course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P74

Tutorial in Public Administration

Guided reading on an aspect of public administration not covered in the department's regular course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P75

Tutorial in Public Policy

Guided reading on an aspect of public policy not covered in the department's regular course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P76

Tutorial in Political Science

Guided reading on an aspect of political science not covered in the department's regular course offerings.

Restriction: open to POLS (single or combined) majors with a minimum of 14.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. Further information is available from the Undergraduate Program Adviser.

POLI 4P95

Political Science Internship

Part-time internship in a government agency, political party, research institute, relevant non-governmental organization (NGO) or other approved placement.

Tutorial, 1 hour per week, plus internship placement time.

Restriction: open to POLS (single) and INPE majors with a minimum of 14.0 overall credits,

a minimum 75 percent major average and permission of the Department.

Note: enrolment limited to number of placements available up to a maximum of 15 students. Students will be required to complete a major paper setting the internship experience within a theoretical context.

POLI 4V00-4V09

Selected Problems in Political Theory

(also offered as LART 4V00-4V09)

Particular writer, work or theoretical problem in political philosophy examined.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined), GBLS and LART majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in GBLS 4V00-4V09.

POLI 4V10-4V19

Issues in Canadian Politics

Selected aspect of Canadian government and politics or an issue of contemporary concern.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4V20-4V29

Selected Problems in International Relations

Selected problems and issues drawn from both the system and nation-state levels of international politics.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4V30-4V39

Selected Problems in Comparative Politics

Comparative study of selected political institutions, processes or policies in various states.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

POLI 4V50-4V59

Selected Topics in Public Administration

Selected problems and issues in public administration drawn from the federal, provincial and/or municipal levels.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined)

majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

Note: open to non-POLS majors with relevant background in other disciplines and permission of the instructor.

POLI 4V60-4V69

Selected Topics in Canadian Public Policy

Field or topic in Canadian public policy, including the analysis of policy making and policy outcomes.

Seminar, 3 hours per week.

Restriction: open to POLS (single or combined) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

CO-OP COURSES

POLI 0N01

Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to POLS Co-op students.

POLI 0N02

Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to POLS Co-op students.

POLI 0N03

Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to POLS Co-op students.

POLI 0N04

Work Placement IV

Optional fourth co-op work placement (4 months) with an approved employer.

Restriction: open to POLS Co-op students.

POLI 0N05

Work Placement V

Optional fourth co-op work placement (4 months) with an approved employer.

Restriction: open to POLS Co-op students.

POLI 0N90

Co-op Training and Development

Framework for the development of learning objectives by students for individual work terms. Includes orientation to the Co-op experience, goal setting, résumé preparation, interview skills preparation.

Lectures, presentation, site visits, 3 hours per week.

Restriction: open to POLS Co-op students.

Popular Culture

This program is offered through the Department of Communication, Popular Culture and Film

Chair

Russell Johnston

Academic Adviser

Penni Lafleur

General Information

Administrative Assistant

Bridget Cahill

905-688-5550, extension 4290

Scotiabank Hall 344

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The Department of Communication, Popular Culture and Film offers three separate programs of study: Communication Studies, Film Studies and Popular Culture. A four-year program leading to the BA Honours degree and a three-year program leading to the BA Pass degree is offered in all three programs. In addition, the Department is involved in programs with community colleges which offer students the opportunity to earn an honours degree in Popular Culture and a college diploma or certificate.

The study of Popular Culture focuses on the communicative practices and experiences of everyday life considered within their cultural, economic, political and social contexts. The undergraduate program in Popular Culture is interdisciplinary in nature, bringing together theoretical and analytical perspectives drawn from both the humanities and the social sciences, and applying them to the study of diverse cultural forms including advertising, film, literature, music, popular entertainment and leisure, radio and television, sport and the worldwide web.

Journalism-Print

The Journalism Print program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines courses and training in journalism/print settings at Niagara College with an Honours degree in Popular Culture at Brock. The program caters to individuals who wish to have a career in journalism. The program allows students to gain applied skills and training in the field, and theoretical knowledge about a variety of topics in Popular Culture. Students who successfully complete the requirements for

this program will be granted both a degree from Brock, and a diploma in Journalism-Print from Niagara College. Gaining both an Honours degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package that can be completed in four years. Applicants must complete Year 1 with a minimum 70 per cent major average and a minimum 70 per cent overall average to be considered for admission to the program. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Journalism-Print program are available from the Office of the Dean of Social Sciences.

Program Notes

1. WRIT 1P93 is recommended.
2. WRIT 1P93 or 1P94 is recommended.
3. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- PCUL 1F92
- FILM 1F94
- one Sciences context credit
- one Social Sciences context credit
- one elective credit (see program note 1)

Year 2

- PCUL 2P15, 2P20, 2P21, 2P30, 2P70 and 2P94
- one credit from PCUL or ENGL 2P10, 2P11
- one elective credit

Year 3

- PCUL 3P14, 3P15, 3P20, 3P30, 3P75 and 3P96
- one PCUL credit numbered 2(alpha)90 or above
- one elective credit

Year 4

- PCUL 4P30 and 4P34
- one credit from PCUL 4P14, 4P17, 4P23, 4P31, 4P40 and 4P70
- two PCUL credits numbered 3(alpha)90 or above
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles students to apply for a Pass degree.

Brock/Colleges Articulation Agreement

Journalism-Print-Niagara College

Year 1

- PCUL 1F92
- FILM 1F94
- one Sciences Context credit
- one Social Sciences Context credit
- one elective credit (see program note 2)

Year 2

- PCUL 2P15, 2P18, 2P20, 2P21, 2P30, 2P70, 2P94 and 3P30
- WRIT 3P18
- one-half elective credit

Year 3

- taken at Niagara College of Applied Arts and Technology

Year 4

- PCUL 3P14, 3P15, 3P96, 4P30 and 4P34
- one credit from PCUL 4P14, 4P17, 4P23, 4P31, 4P40 and 4P70
- one-half PCUL credit numbered 3(alpha)90 or above
- WRIT 3P98
- one-half elective credit

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

PCUL 1F00

Music in Popular Culture

(also offered as MUSI 1F00)

Survey of developments in blues, jazz, rock and related genres of popular music.

Lectures, 3 hours per week; listening assignments.

PCUL 1F92

Introduction to Popular Culture

Historical, ethnographic and textual approaches to the study of cultures and practices of everyday life.

Lectures, seminar, lab, 4 hours per week.

* PCUL 2F92

Popular Narrative

(also offered as COMM 2F92 and ENGL 2F92)

Textual and contextual analysis of popular literary genres such as the detective novel, gothic fiction, science fiction, the romance novel; adaptation of popular novels to a variety of other media forms.

Lectures, seminar, lab, 4 hours per week.

Prerequisite: one of PCUL 1F92, COMM 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99, FILM 1F94 or permission of the instructor.

PCUL 2P06

Cultural and Historical Geography

(also offered as GEOG 2P06)

Interactions among culture, society, and landscape. The material and symbolic manifestations of culture in processes of landscape change.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL, GEOG (single or combined) and GEOG (Honours)/BEEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of PCUL 1F92, COMM

1F90, GEOG 1F90 or permission of the instructor.

PCUL 2P15

Communication Research Methods

(also offered as COMM 2P15)

Introduction to qualitative and quantitative methods for communication and popular culture research.

Lectures, lab, 3 hours per week.

Restriction: open to PCUL and COMM majors until date specified in Registration guide.

Prerequisite: PCUL 1F92, COMM 1F90 or permission of the instructor.

PCUL 2P17

Communication and Public Policy

(also offered as COMM 2P17)

Historical trends in objectives and implementation of communication policies. Topics include public broadcasting, subsidies, protection, regulation and effect of international trade on domestic media policy.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL and COMM majors until date specified in Registration guide.

Prerequisite: PCUL 1F92 or COMM 1F90.

PCUL 2P18

Reporting and News Writing for Mass Media

(also offered as WRIT 2P18 and COMM 2P18)

News gathering, writing and editing for print and electronic media; journalistic style and conventions; interviewing and other information-gathering techniques; editing basics.

Lectures, lab, 3 hours per week.

Restriction: open to COMM, EWRT, PCUL majors and WRIT minors until date specified in Registration guide.

Prerequisite: one credit from COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, PCUL 1F92, WRIT 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* PCUL 2P20

Popular Culture Theory and Research Methods

(also offered as COMM 2P20 and FILM 2P20)

Theoretical and methodological approaches to the study of various forms of popular culture. Critical and research skills specific to studies in popular culture.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to PCUL, COMM and FILM (single or combined) majors until date specified in Registration guide.

Prerequisite: one of PCUL 1F92, CANA 1F91, COMM 1F90, FILM 1F94 or permission of the instructor.

* PCUL 2P21

Canadian Popular Culture

(also offered as COMM 2P21 and FILM 2P21)

Survey of the media in Canada. Studies in the popular arts, with special reference to the ways that institutions (CBC, NFB) and selected artists identify and express a Canadian cultural imagination.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to PCUL, COMM and FILM (single or combined) majors until date specified in Registration guide.

Prerequisite: PCUL 2P20 or permission of the instructor.

PCUL 2P22

Media and Sport

(also offered as COMM 2P22 and SPMA 2P22)

Representation of sport in film, television and advertising. Topics may include issues of race, gender, business, politics and ideology in both professional and non-professional sports.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL, COMM and SPMA majors with a minimum of 5.0 overall credits or permission of the instructor.

PCUL 2P30

Popular Entertainment

Cultural theories applied to popular entertainment and leisure activities, past and present, including amusement parks, fairs and festivals, sport, and tourism.

Lectures, seminar, 3 hours per week.

Prerequisite: PCUL 1F92.

PCUL 2P56

Canadian Cinema

(also offered as COMM 2P56 and FILM 2P56)

Critical and historical study of Canadian cinema.

Lectures, seminar, 3 hours per week; plus weekly film lab.

Prerequisite: one of PCUL 1F92, COMM 1F90, FILM 1F94 or permission of the instructor.

PCUL 2P59

Valuing Contemporary Fiction

(also offered as ENGL 2P59)

Contesting concepts of literary value; the grounds and methods of evaluation; differing interpretive communities; social locations and uses of fiction. Novels and short stories.

Lectures, seminar, 3 hours per week.

Prerequisite: one Humanities context credit (60 percent) or permission of the instructor. Completion of this course will replace previous assigned grade and credit obtained in ENGL (PCUL) 2P96.

* PCUL 2P70

Popular Music and Society

(also offered as COMM 2P70, MUSI 2P70 and SOCI 2P70)

Critical approaches to popular music in its social, cultural, political and economic contexts.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to PCUL, COMM, MUSI (single or combined) and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: one of PCUL 1F00, 1F92, COMM 1F90, MUSI 1F50, SOCI 1F90 or permission of the instructor.

PCUL 2P94

Popular Cinema

(also offered as COMM 2P94 and FILM 2P94)

Popular cinema as art and institution emphasizing film genres and cultural contexts.

Lectures, seminar, 3 hours per week.; plus weekly lab.

Prerequisite: PCUL 1F92 or FILM 1F94.

PCUL 3P01

Directed Reading

Tutorial combined with one or more research papers or projects in an area of Popular Culture Studies of mutual interest to the student and instructor.

Restriction: permission of the Department.

Note: students are responsible for arranging their course with a faculty member in consultation with the Academic Adviser and must submit a written contract signed by the faculty member to the Undergraduate Program Adviser before registration.

PCUL 3P06

Class and Culture

(also offered as LABR 3P06)

Labour issues as portrayed in cultural formats such as media, film, fiction and art. Topics may include the labour movement, its role in society, and its portrayal in popular culture. *Seminar, 3 hours per week.*

Restriction: open to students with a minimum 8.0 overall credits.

Prerequisite: LABR 1F90 or permission of the instructor.

PCUL 3P14

Media Industries

(also offered as COMM 3P14 and SOCI 3P14)

Media industries emphasizing Canadian media production in its economic, political and technological environments.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL, COMM, FILM (single and combined) and SOCI (single and combined) majors with a minimum of 8.0 overall credits.

Prerequisite: PCUL 2P20 or SOCI 2P12.

PCUL 3P15

Media Analysis

(also offered as COMM 3P15)

Introduction to methods of media analysis. Comparison of theoretical and methodological approaches to mass media content, production, consumption and reception.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL and COMM majors with a minimum of 8.0 overall credits.

Prerequisite: PCUL 2P15.

PCUL 3P18

Audience Studies

(also offered as COMM 3P18 and FILM 3P18)

Theoretical and methodological approaches to the understanding of audiences for media and cultural products, including print, sound, film, broadcasting, and digital media.

Lectures, seminar, 3 hours per week.

Prerequisite: PCUL 2P15 and 2P20 or FILM 2F90.

PCUL 3P20

Television Studies

(also offered as COMM 3P20 and FILM 3P20)

Historical, theoretical and critical approaches to television.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to PCUL, COMM, FILM (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: PCUL 2P20, FILM 2F90 or permission of the instructor.

PCUL 3P21

Canadian Television

(also offered as COMM 3P21 and FILM 3P21)

Historical, theoretical and critical approaches to Canadian television.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to PCUL, COMM, FILM (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: PCUL 3P20 or permission of the instructor.

PCUL 3P26

Social and Political Aspects of Digital Gaming

(also offered as COMM 3P26 and IASC 3P26)

Critical investigation of digital gaming, particularly of the interrelationships among communication, media, computing and software development.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum 9.0 overall credits or permission of the instructor.

Prerequisite: PCUL2P20 or IASC 2F00.

PCUL 3P30

Folk Culture

Theories and approaches to folk culture; folk groups, traditions, rituals, performances, recreation and material culture.

Lectures, seminar, 3 hours per week.

Prerequisite: PCUL 2P30 or permission of the instructor.

PCUL 3P51

Popular Music, Identity and Place

(also offered as GEOG 3P51)

Examines links among places, music and cultural identities focusing on globalization, migration and mobility, place identity, music tourism and the role of companies and technologies in music's diffusion, innovation and commercialization.

Lectures, seminar, 4 hours per week.

Restriction: open to PCUL, GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: one of PCUL 2P06, COMM 1F90, GEOG 2P01, 2P02 or permission of the instructor.

PCUL 3P55

Advertising in Context

(also offered as COMM 3P55)

Methodological and critical approaches to contemporary advertising in its cultural, social and political-economic contexts.

Lectures, seminar, 3 hours per week.

Prerequisite: PCUL 2P20 or permission of the instructor.

PCUL 3P63

Desktop Publishing and Design

(also offered as COMM 3P63 and WRIT 3P63)

Practicum in desktop publishing, layout and design.

Lectures, lab, 3 hours per week.

Restriction: open to COMM, EWRT and PCUL majors and WRIT minors with a minimum of 9.0 overall credits.

PCUL 3P69

Geography of Cultural Industries

(also offered as COMM 3P69 and GEOG 3P69)

Theories and models of cultural production including, Cave's organizational model of cultural industries, Scott's model of cultural-product agglomerations, Veblen's theory of the leisure class, and Bordieu's work on the creative field and habitus. Geography of artistic attraction and regional impacts of cultural policies.

Lectures, seminar, 4 hours per week.

Restriction: open to PCUL, COMM, GEOG(single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until the date specified in Registration guide.

Prerequisites: PCUL 2P20 or GEOG 2P02; GEOG 2P01, 2P06 or permission of the instructor.

* PCUL 3P73

Popular Music and Youth Culture
(also offered as COMM 3P73, MUSI 3P73 and SOCI 3P73)

Cultural relationship between young people and popular music. Topics include music's role in the formation of identity, the connection between musical taste and various forms of youth fashion or style, and the impact of new technologies on the ways in which young people access music.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL, COMM, MUSI (single and combined) and SOCI (single and combined) majors with a minimum of 8.0 overall credits or permission of the instructor.

* PCUL 3P75

Cultures of Consumption

(also offered as COMM 3P75)

Commodities within social life. Topics may include gift giving, shopping malls, identity and status, lifestyles, romanticism and hedonism, and ethical or alternative consumption.

Lectures, seminar, 4 hours per week.

Restriction: students must have a minimum of 9.0 overall credits or permission of the instructor.

Prerequisite: PCUL 2P20.

PCUL 3P92

Technology and Culture

(also offered as COMM 3P92 and IASC 3P92)

Exploration of mutually productive relationships among cultural practices and technologies, using historical and contemporary examples.

Lectures, seminar, 3 hours per week.

Prerequisite: one of PCUL 2P20, 2P21, IASC 1F00 or permission of the instructor.

PCUL 3P93

Media and Minorities

(also offered as COMM 3P93 and SOCI 3P93)

Relations between mass media and minority groups in society including dominant representations and stereotypes of cultural, racial and sexual minorities and minority group access to alternative forms of media production.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: one of PCUL 2P21, COMM 2F50, SOCI 2P11 and 2P13 or permission of the instructor.

PCUL 3P94

Film Genre

(also offered as COMM 3P94 and FILM 3P94)

Genre theory and its application to popular film.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: PCUL 2P20 and 2P21, FILM 2F90 or permission of the instructor

* PCUL 3P96

Issues in Popular Culture

(also offered as COMM 3P96 and FILM 3P96)

Specialized studies in popular culture, and its role in specific social, historical or theoretical contexts.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: PCUL 2P20 and 2P21 or FILM 2F90.

PCUL 3Q94

Television Genres

(also offered as COMM 3Q94 and FILM 3Q94)

Genre theory and its application to popular television.

Lectures, seminar, 3 hours per week; plus weekly lab.

Prerequisite: PCUL 2P20 and 2P21, FILM 2F90 or permission of the instructor.

PCUL 3V50-3V59

Special Topics in Popular Culture Studies

Lectures, seminar, 3 hours per week.

Prerequisites: PCUL 2P20, 2P21 and 2P94 or permission of the instructor.

PCUL 4F99

Honours Thesis

Thesis on a topic of mutual interest to the student and the instructor, with a critical, historical or contemporary focus.

Restriction: open to PCUL majors with a minimum of 14.0 overall credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Department.

Prerequisites: PCUL 4P30 and 4P31 (may be taken concurrently).

Note: to register in the Honours thesis, the student must consult the Undergraduate Program Adviser about topics, department regulations and the selection of an adviser.

PCUL 4P06

Advanced Studies in Popular Culture

Issues in popular culture and its role in specific social, historical and theoretical contexts.

Lectures, lab, seminar, 3 hours per week.

Restriction: open to PCUL majors with approval to year 4 (honours) and permission of the Department.

Prerequisite: PCUL 3P96.

PCUL 4P14

Advanced Research in Cultural Industries
(also offered as COMM 4P14)

Advanced research into the national and international development, operations and political economy of a single cultural industry. Topics may include press, periodicals, radio, music, film, television or interactive media industries.

Lecture, seminar, 3 hours per week.

Restriction: open to PCUL and COMM majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4P17

Communication and Cultural Policy

(also offered as COMM 4P17)

Advanced research on public policy objectives and instruments for the arts, cultural industries, public and private broadcasting in Canada and internationally.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL and COMM majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4P18

Media and the Natural Environment

(also offered as COMM 4P18)

Media constructions of the natural environment, environmental movements and environmental issues such as pollution, climate change and consumerism.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL and COMM majors with approval to year 4 (honours) or permission of the instructor.

* PCUL 4P23

Research on Media and Popular Culture

(also offered as COMM 4P23 and SOCI 4P23)

Advanced research seminar on the relations between mass media and popular culture.

Seminar, 3 hours per week.

Restriction: open to PCUL, COMM and SOCI (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

Prerequisite: PCUL 3P14 or 3P15.

PCUL 4P30

Theories of Mass Culture

(also offered as COMM 4P30 and FILM 4P30)

Studies in cultural theory and its application to mass media texts, with special reference to the work of the Frankfurt School, French Structuralism and British Cultural Studies.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL and FILM (single or combined) majors until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 (honours) or permission of the instructor.

PCUL 4P31

Theories of the Visible

(also offered as COMM 4P31 and FILM 4P31)

Central 20th-century developments in theories of visibility and their relevance to the field of media studies.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL and FILM (single or combined) majors until date specified in Registration guide. After that date open to COMM majors. Students must have approval to year 4 (honours) or permission of the instructor.

* PCUL 4P34

Taste and Cultural Politics

(also offered as COMM 4P34 and FILM 4P34)

Application of cultural theories to the analysis of taste, distinction, class, cultural standards and moral panics, transgression and trash culture.

Lectures, seminar, 3 hours per week.

Restriction: open to PCUL majors until date specified in Registration guide. After that date open to COMM and FILM (single or combined) majors. Students must have approval to year 4 (honours) or permission of the instructor.

PCUL 4P40

Popular Culture and Identity

Theoretical and methodological approaches to analysis of identity in popular culture. Topics may include class, gender, locality, ethnicity, and nationality.

Seminar, 3 hours per week.

Restriction: open to PCUL majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4P55

Advertising, Mass Media and Culture

(also offered as COMM 4P55)

Historical research into the development of Canadian advertising practices in an international context. Evaluation of the cultural and economic impact of advertising on the mass media and the role of advertising in the formation of a consumer culture.

Seminar, 3 hours per week.

Restriction: open to PCUL and COMM majors with approval to year 4 (honours) or permission of the instructor.

* PCUL 4P70

Advanced Studies in Popular Music

(also offered as COMM 4P70 and MUSI 4P70)

Focus on a specific culture, genre, issue or historical era.

Seminar, 3 hours per week.

Restriction: open to PCUL, COMM and MUSI (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4P80

Directed Reading

Directed individual or group readings in an area of popular culture.

Restriction: open to PCUL majors with a minimum of 14.0 credits, a minimum 80 percent major average, approval to year 4 (honours) and permission of the Department. Note: students are responsible for arranging their course with a faculty member, in consultation with the Academic Adviser and must submit a written proposal, signed by the Undergraduate Program Adviser before registration. The reading may not be on the topic or with the faculty member of the student's PCUL 4F99 thesis.

PCUL 4V50-4V59

Contemporary Issues in Popular Culture Studies

Special topics in contemporary popular culture research.

Seminar, 3 hours per week.

Restriction: open to PCUL majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4V53

2009-2010: Representing Crime in Canada
(also offered as FILM 4V53)

Canadian popular novels, films and television programs depicting crime and justice in Canada.

Lectures, seminar, lab, 4 hours per week.

Restriction: open to PCUL, COMM and FILM (single and combined) majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4V60-4V69

Historical Perspectives in Popular Culture

Specialized studies in popular culture addressing specific forms, genres or issues in a particular historical period.

Seminar, 3 hours per week.

Restriction: open to PCUL majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4V61

2009-2010: Conventions of Film Realism

(also offered as COMM 4V61 and FILM 4V61)

How representation and perception of "reality" have evolved with technology and aesthetics, from the LumiPress to reality television.

Lectures, lab, seminar, 4 hours per week.

Restriction: open to PCUL, COMM and FILM (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

PCUL 4V70-4V79

Issues in International Popular Culture

Specialized studies of popular culture in

international or global contexts.

Seminar, 3 hours per week.

Restriction: open to PCUL majors with approval to year 4 (honours) or permission of the instructor.

Psychology

Chair

Kathryn Bellicki (as of July 1, 2009)
Michael Ashton

Professors Emeriti

Jack Adams-Webber, John G. Benjafield, John J. Lavery, Robert D. Ogilvie, Edward W. G. Pomeroy, Joan Preston

Professors

Michael Ashton, Kathryn Bellicki, Anthony F. Bogaert, Stefan M. Brudzynski, Nancy DeCourville, David DiBattista, Jane Dywan, Carolyn Hafer, Harry T. Hunt, Dorothy Markiewicz, Cheryl McCormick, John Mitterer, Linda Rose-Krasnor, Stanley W. Sadava, Sidney J. Segalowitz, Paul D. Tyson, Teena Willoughby

Associate Professors

Karen Arnell, Kimberly Cote, Andrew V. Dane, Dawn E. Good, Gordon Hodson, Tanya Martini, Cathy Mondloch, Peter Ramm (on leave)

Assistant Professors

Angela Book, H. Willard Bradley, Cameron Muir, Tim Murphy

Adjunct Professors

Michael Alexander, Sherrie Bieman-Copland, Nancy Johnston, Don McCreary, Carlyle Smith

Undergraduate Program Officer

Tanya Martini

Administrator

Kirsti van Dorsser

Co-ordinator

Tammy Stewart Atkinson

Director of Co-operative Programs

Cindy Dunne

Co-ordinator Collaborative Programs

Jo Stewart

General Information

Administrative Assistants

Joanne Boekestyn, Linda Di Raddo, Linda Pidduck

905-688-5550, extension 5050

Mackenzie Chown B327

<http://www.psyg.brocku.ca/>

The Department of Psychology offers four-year programs of study leading to a BA (Honours) Psychology, a BA with Major Psychology, and a three-year BA Pass degree program. Programs are designed to provide students with a broad introduction to the field of psychology including research methodology, psychological theory and application. In addition, the 20-credit degree programs give students the opportunity to prepare for admission to professional and advanced degree training in a variety of fields. Students interested in pursuing graduate study specifically in psychology should complete the Honours program.

The requirements for graduation with a BA (Honours) are a minimum 70 percent major average and a minimum 60 percent non-major average. The requirements for a BA with Major and a Pass BA are a minimum 60 percent major average and a minimum 60 percent overall average.

Students wishing to major in Psychology must apply to declare their major. Declaration of major forms are available in the Registrar's Office and on-line at <http://www.brocku.ca/registrar/forms/index.html>. The Department believes that a broadly based liberal arts and science background is appropriate in conjunction with a major in Psychology. It is required that Honours students acquire some background in other disciplines as part of their undergraduate program by taking elective courses in areas outside of Psychology. Students wishing to pursue an Honours degree must complete a PSYC 4F90-4F91 Application. Applications are available in the Department of Psychology. See the Psychology Major's Manual at <http://www.psyg.brocku.ca/undergrad> for more information.

Psychology Co-op Program (Honours and 4 Year BA with Major)

The Psychology Co-op program combines academic and work terms over a five-year period. Students spend two years in an academic setting studying the core concepts of psychology prior to taking the first work placement. In addition to the current fees for courses in academic study terms, Psychology Co-op students are assessed an annual administrative fee (see the Schedule of Fees). Eligibility to continue is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Psychology Co-op program. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Co-

op Admission Committee. The Psychology Co-op program designation will be awarded to those students who have completed a four-year degree (Honours or BA with Major) and who have successfully completed a minimum of twelve months of Co-op work experience.

Behavioural Science Technology-St Lawrence College

The Behavioural Science Technology program involves courses offered through Brock and St Lawrence College of Applied Arts and Technology. This four-year program combines training in behavioural science with an education in Psychology. The program caters to individuals who wish to have a career that involves encouraging behaviour change in areas such as counselling, addictions, autism, and corrections. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Gaining both a degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and St Lawrence program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 75 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Behavioural Science Technology program are available from the Office of the Dean of Social Sciences.

Human Services Counselling-Durham College

The Human Services Counselling program involves courses offered through Brock and Durham College of Applied Arts and Technology. This four-year program combines training in a variety of counselling settings with an education in Psychology. The program caters to individuals who wish to have a career in a wide variety of social service settings, including those associated with mental health, criminal justice, social justice, addictions, education and gerontology. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Gaining both a degree and this diploma would ordinarily involve consecutively attending both institutions over six years, but the Brock and Durham program combines the two in a single integrated package that can be

completed in only four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Human Services Counselling program are available from the Office of the Dean of Social Sciences.

Montessori Education-Sheridan College

The Montessori Education Program involves courses offered through Brock and Sheridan College of Applied Arts and Technology. This four-year program combines courses and training in Montessori Education settings at Sheridan College with a four-year degree in Psychology at Brock. The program caters to individuals who wish to have a career in teaching in a Montessori setting. The program allows students to gain both solid applied skills and training in Montessori education, and a strong theoretical knowledge about a variety of topics in Psychology. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and a diploma in Montessori Education from Sheridan College. Students will also receive an Early Childhood teaching credential from the American Montessori Society (AMS). Gaining both a degree and this diploma would ordinarily involve attending college after gaining a university degree, but the Brock and Sheridan program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Montessori Education program are available from the Office of the Dean of Social Sciences.

Policing and Criminal Justice-Niagara College

The Policing and Criminal Justice program involves courses offered through Brock and

Niagara College of Applied Arts and Technology. This four-year program combines training in policing and criminal justice with an education in a chosen academic discipline, which may be Human Geography, Psychology, Political Science or Sociology. For students majoring in Psychology, this four-year program leads to a BA with Major and a diploma in Police Foundations from Niagara College. The program caters to the increasing demand in society for professionals who possess both solid applied skills and the substantive knowledge needed to apply them to the areas of policing and criminal justice. This would ordinarily involve attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience is considered an asset. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms for the Policing and Criminal Justice program are available from the Office of the Dean of Social Sciences.

Please consult the Policing and Criminal Justice entry for a listing of program requirements.

Social Service Worker-Sheridan College

The Social Service Worker Program involves courses offered through Brock University and Sheridan College of Applied Arts and Technology. This four-year program combines training in a variety of applied social service settings at Sheridan College with a Four Year BA with Major Psychology at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in a variety of aspects of social services. The program leads to career opportunities in a wide variety of areas including youth worker, assistants for developmentally challenged individuals, counsellor in a variety of group home and mental health settings, and acting as an advocate or counsellor in crisis centres or centres for women. Obtaining both a Four Year BA with Major Psychology and a college diploma would ordinarily involve at least five years of study, but this Brock-Sheridan articulation program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during

Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Social Service Worker program are available from the Office of the Dean of Social Sciences.

Yukon College Exchange and Degree

Completion Program

This collaborative program allows Yukon College students to attend Brock University upon completion of the first two years of their studies in Whitehorse, Yukon Territory. This program also allows Brock students to attend Yukon College to complete the second year of their studies. Students completing their degree upon transfer to Brock University will complete 3.0 third-year PSYC credits (including PSYC 3P30), 3.0 fourth-year PSYC credits and 4.0 elective credits. At least 3.0 elective credits must be chosen from courses numbered 2(*alpha*)00 or higher. These courses can be taken in any of the following terms, as long as all course requirements are met by the end of the spring term following Year Three. Yukon College students may also complete up to two credits on Letter of Permission from a recognized Canadian University. This curriculum can be completed in fourteen months if students begin taking courses in the Spring Term after they have completed Year Two of their studies at Yukon College. In fourteen months, students can complete either an Honours BA (Literature Review thesis) or a Four Year BA with a Major in Psychology (depending on Psychology program requirements). For students wishing to complete an Honours BA with an Empirical thesis, the program will take two full academic years. This program also allows Brock students attending Year Two at Yukon College to complete a combination of Psychology, Math and elective courses that are equivalent to the second-year program at Brock. Students will then return to Brock to complete the final two years of their studies. Students can complete an Honours BA or a Four Year BA with Major Psychology (depending on Psychology program requirements).

Program Notes

1. Honours students intending to pursue graduate studies in Psychology are also advised to take PSYC 3F40.
2. Students enrolled in PSYC 4F91 must enroll concurrently in PSYC 4P95.

3. If a student has completed PSYC 3F40 and wishes to complete a BA with Major, PSYC 3P30 will not be required.

4. WRIT 1P93 is recommended.

5. Students completing a four-year degree (BA with Major or Honours) must choose 7.0 credits from disciplines outside of Psychology. Students completing a Pass BA must choose 5.0 credits from disciplines outside of Psychology.

6. If not offered see Department for alternative.

7. Students who opt to take CHYS 3P48 or one ABA course during Spring/Summer Sessions following Year 2 complete one-half elective credit.

8. Two PSYC credits numbered 3(alpha)alpha)00 to 3(alpha)99, one PSYC credit numbered 3(alpha)90 to 4(alpha)99 and four elective credits are required. Students may complete a maximum of two credits on Letter of Permission from a recognized Canadian University.

9. Four and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99, one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99 and three elective credits are required. Students may complete a maximum of two credits on Letter of Permission from a recognized Canadian University.

10. For the Human Services Counselling program SOCI 2P21, 3P47, 3P83 recommended.

11. For the Montessori Education program PSYC 3F20, 3P33, 3P80 recommended as the PSYC 3(alpha)00 to 3(alpha)99 elective; PSYC 4P45, 4P7, 4P78, 4P79 recommended as the PSYC 4(alpha)00 to 4(alpha)99 elective; SOCI 2P21, 2P52, 2P55, 2P58, 2P83, 3P51, 3P30, 3P47, 3P83 or WISE 2P99 recommended as elective credit.

12. For the Social Service Worker program PSYC 3P11, 3P23, 3P60, 3P61, 3P74, 3P77, 3Q33 recommended as the PSYC 2(alpha)00 to 3(alpha)99 elective and PSYC 4P27, 4P35, PSYC 4V89-4V91 recommended as the PSYC 3(alpha)90 to 4(alpha)99 elective.

13. Combined majors enrolled in PSYC 4F90 or 4F91 must enroll in PSYC 4P93.

14. In 20 credit Honours degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or

above; and the remaining credits must be numbered 2(alpha)00 or above.

In this 20 credit BA with Major degree program a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least four and one-half credits must be numbered 2(alpha)90 or above; at least one and one-half credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits (see program notes 4 and 5)

Year 2

- Two and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
- PSYC 2F23
- one and one-half elective credits (see program note 5)

Year 3

- PSYC 3F40 and one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99, or PSYC 3P30 and two PSYC credits numbered 3(alpha)00 to 3(alpha)99 (see program note 1)
- PSYC 3P39
- two elective credits (see program note 5)

Year 4

- One PSYC credit numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
- PSYC 4F90 or 4F91 (see program note 2)
- PSYC 4P92 and 4P93
- two elective credits (see program note 5)

Psychology Co-op Empirical Thesis stream (Honours only)

Year 1

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits (see program notes 4 and 5)

Year 2

- PSYC 0N90 and 2F23
- two and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
- one and one-half elective credits (see program note 5)

Spring/Summer Sessions:

- PSYC 0N01

Year 3

- PSYC 3F40 and 3P39
- one and one-half PSYC credits numbered 3(alpha)00 or above
- two elective credits (see program note 5)

Spring/Summer Sessions:

- PSYC 0N02

Year 4

- PSYC 4F91, 4P92, 4P93 and 4P95
- one-half PSYC credit numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
- two elective credits (see program note 5)

Spring/Summer Sessions:

- PSYC 0N03

Psychology Co-op Literature Review Thesis stream (Honours only)

Year 1

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits (see program note notes 4 and 5)

Year 2

- PSYC 0N90 and 2F23
- two and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
- one and one-half elective credits (see program note 5)

Spring/Summer Sessions:

- PSYC 0N01

Year 3

- PSYC 3P30 and 3P39
- two PSYC credits numbered 3(alpha)00 or above
- two elective credits (see program note 5)

Spring/Summer Sessions:

- PSYC 0N02

Year 4

- PSYC 4F90, 4P92 and 4P93
- one PSYC credit numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
- two elective credits (see program note 5)

Spring/Summer Sessions:

- PSYC 0N03

BA with Major Program

Year 1

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits (see program notes 4 and 5)

Year 2

- Two and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
- PSYC 2F23
- one and one-half elective credits (see program note 5)

Year 3

- PSYC 3P30
- two and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
- two elective credits (see program note 5)

Year 4

- One and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99
- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99
- two elective credits (see program note 5)

BA with Major Co-op

Year 1

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits (see program notes 4 and 5)

Year 2

- PSYC 0N90 and 2F23
- two and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
- one and one-half elective credits (see program note 5)

Year 3 Fall term, Year 4 Winter term and Year 5

- PSYC 3P30
- four PSYC credits numbered 3(alpha)00 or above
- one and one-half PSYC credits numbered 3(alpha)90 or above
- four elective credits (see program note 5)

Year 3

- Winter Term:
- PSYC 0N01

Spring/Summer Sessions:

- PSYC 0N02

Year 4

- Fall Term:
- PSYC 0N03

Yukon College Exchange and Degree Completion Program

Honours

For Brock students attending Yukon College in Year Two

Year 1

- (taken at Brock University)
- PSYC 1F90
 - one Humanities context credit
 - one Science context credit
 - two elective credits (see program notes 4 and 5)

Year 2

- (taken at Yukon College)
- MATH 105 and 130
 - six from PSYC 201, PSYC 202, PSYC 203, PSYC 204, PSYC 205, PSYC 209, PSYC 230, GSTD 120, CRIM 103 and CRIM 210
 - two elective courses (excludes PHED and RRMT)

Year 3

- (taken at Brock University)
- PSYC 3F40 and one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99, or PSYC 3P30 and two PSYC credits numbered 3(alpha)00 to 3(alpha)99 (see program note 1)
 - PSYC 3P39
 - two elective credits (see program note 5)

Year 4

- (taken at Brock University)
- PSYC 4F90 or 4F91 (see program note 2)
 - PSYC 4P92 and 4P93
 - one PSYC credit numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
 - two elective credits (see program note 1)

Literature Review Thesis stream (Honours only)

Years 1 and 2

(taken at Yukon College)

Spring/Summer Sessions:

- Three PSYC credits numbered 3(alpha)00 to 3(alpha)99 or elective credits (see program note 8)

Year 3

- PSYC 3P30, 3P39, 4F90, 4P92 and 4P93
- Two PSYC credits numbered 3(alpha)00 to 4(alpha)99 or elective credits (see program note 8)
- one-half elective credit

Spring/Summer Sessions:

- Two PSYC credits numbered 3(alpha)90 to 4(alpha)99 or elective credits

Empirical Thesis stream (Honours only)

Years 1 and 2

(taken at Yukon College)

Year 3

- PSYC 3F40 and 3P39
- one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
- two elective credits (see program note 5)

Year 4

- PSYC 4F91, 4P92, 4P93 and 4P95
- one-half PSYC credit numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
- two elective credits (see program note 5)

BA with Major

For Brock students attending Yukon College in Year Two

Year 1

- (taken at Brock University)
- PSYC 1F90
 - one Humanities context credit
 - one Science context credit
 - two elective credits (see program notes 4 and 5)

Year 2

- (taken at Yukon College)
- MATH 105 and 130
 - six from PSYC 201, PSYC 202, PSYC 203, PSYC 204, PSYC 205, PSYC 209, PSYC 230, GSTD 120, CRIM 103 and CRIM 210
 - two elective courses (excludes PHED and RRMT)

Year 3

- (taken at Brock University)
- PSYC 3P30
 - two and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
 - two elective credits (see program note 5)

Year 4

- One and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99
- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99
- two elective credits (see program note 5)

BA With Major

Year 1 and 2

(taken at Yukon College)

Spring/Summer Sessions:

•Three PSYC credits numbered 3(alpha)00 to 3(alpha)99 or elective credits (see program note 9)

Year 3

•PSYC 3P30
•four and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99 or elective credits (see program note 9)
•one-half elective credit

Spring/Summer Sessions:

•Two PSYC credits numbered 3(alpha)00 to 4(alpha)99 or elective credits (see program note 9)

Pass Program

Year 1

•PSYC 1F90
•one Humanities context credit
•one Science context credit
•two elective credits (see program notes 4 and 5)

Year 2

•Two and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
•PSYC 2F23
•one and one-half elective credits (see program note 5)

Year 3

•Three PSYC credits numbered 3(alpha)00 to 3(alpha)99
•two elective credits (see program note 5)

Combined Major Program

Students may take a combined major in Psychology and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option. All combined major students should consult with the Administrator or Co-ordinator in each department/centre in order to avoid duplication of courses.

Honours

•PSYC 1F90, 2F23, 3P39 and 4P92
•one and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
•PSYC 3F40 and one-half PSYC credit numbered 3(alpha)00 to 3(alpha)99, or PSYC 3P30 and one PSYC credit numbered 3(alpha)00 to 3(alpha)99
•one PSYC credits numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
•one of PSYC 4F90, 4F91, one Honours thesis credit in the second discipline (see program notes 2 and 13)

BA with Major

•PSYC 1F90, 2F23 and 3P30
•one and one-half credits from PSYC 2P12, 2P20, 2P24, 2P25, 2P30, 2P31, 2P36, 2P37, 2P45, 2P49
•two and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99
•one PSYC credits numbered 3(alpha)90 to 4(alpha)99

Pass

•PSYC 1F90 and 2F23
•one PSYC credit numbered 2(alpha)00 to 2(alpha)99
•two PSYC credits numbered 3(alpha)00 to 3(alpha)99

Psychology and Biological Sciences

Consult the Biological Sciences entry for a listing of program requirements.

Psychology and Child and Youth Studies

This is a specialized Combined Honours program that has students choosing to focus on either Child and Youth Studies or on Psychology upon entry to Year Three. Consult the Child and Youth Studies entry for a listing of program requirements.

Minor in Psychology

Students in other disciplines can obtain a minor in Psychology within their degree program by completing the following courses with a minimum 60 percent overall average:

•PSYC 1F90
•PSYC 2F23 or MATH 1F92
•two additional PSYC credits

•one PSYC credit numbered 3(alpha)00 or above

Brock/Colleges Articulation Agreement

Behavioural Science Technology-St Lawrence College

Honours

Year 1

•PSYC 1F90
•one Humanities context credit
•one Science context credit
•two elective credits (see program note 4)

Spring/Summer Sessions:

•PSYC 2F23

Year 2

•PSYC 2P12, 3F20 and 3P30
•one and one-half credits from PSYC 2P24, 2P25, 2P30, 2P31, 2P45
•one of PSYC 3P18, 3P19, 3P51, 3P72, 3P75
•one elective credit (see program note 5 and 7)

Spring/Summer Sessions:

•CHYS 3P48 or one ABA course (taken on LOP; see program note 6)

Year 3

•taken at St Lawrence College

Year 4

•One of PSYC 3P18, 3P19, 3P51, 3P72, 3P75
PSYC 3P39, 4F90, 4P92 and 4P93
•one PSYC credit numbered 3(alpha)90 to 4(alpha)99

Spring/Summer Sessions:

•Field placement

BA with Major

Year 1

•PSYC 1F90
•one Humanities context credit
•one Science context credit
•two elective credits (see program note 4)

Spring/Summer Sessions:

•PSYC 2F23

Year 2

•PSYC 2P12, 3F20 and 3P30
•one and one-half credits from PSYC 2P24, 2P25, 2P30, 2P31, 2P45
•one of PSYC 3P18, 3P19, 3P51, 3P72, 3P75
•one elective credit (see program note 5 and 7)

Spring/Summer Sessions:

- CHYS 3P48 or one ABA course (taken on LOP; see program note 6)

Year 3

- taken at St Lawrence College

Year 4

- One credit from PSYC 3P18, 3P19, 3P51, 3P72, 3P75

- one and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99

- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99

Spring/Summer Sessions:

- Field placement

Human Services Counselling-Durham College

Year 1

- PSYC 1F90

- POLI 1P98 or one-half elective credit

- SOC1 1F90

- one Humanities context credit

- one Science context credit

- one-half elective credit (see program note 4)

Year 2

- PSYC 2F23, 2P12, 2P30, 2P31 and 3F20

- one of PSYC 2P20, 2P24, 2P25, 2P36, 2P37, 2P45, 2P49

- POLI 1P98 or one-half credit elective (not taken in year 1; see program notes 4 and 10)

- one-half elective credit (see program note 10)

Year 3

- taken at Durham College

Year 4

- PSYC 3P72

- PSYC 3F40 and one-half elective credit, or

- PSYC 3P30 and one elective credit (see program notes 1 and 10)

- one and one-half PSYC credits numbered 3(alpha)00 to 4(alpha)99

- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99

Spring/Summer Sessions:

- Field placement

Montessori Education- Sheridan College

This program does not lead to an Ontario Certificate of Qualification

Year 1

- PSYC 1F90

- CHYS 1F90

- one Humanities Context credit

- one Science Context credit

- one elective credit

Year 2

- PSYC 2F23 and 2P12

- two PSYC credits numbered 2(alpha)00 to 2(alpha)99

- one PSYC credit numbered 3(alpha)00 to 3(alpha)99 (see program note 11)

- one-half elective credit (see program note 13)

Year 3

- taken at Sheridan College

Year 4

- PSYC 3P30

- one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99 (see program note 11)

- two and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99 (see program note 11)

- one-half elective credit (see program note 13)

Policing and Criminal Justice-Niagara College

Consult the Policing and Criminal Justice entry for a listing of program requirements.

Social Service Worker-Sheridan College

Year 1

- PSYC 1F90

- SOC1 1F90

- one Humanities context credit

- one Science context credit

- one elective credit (see program note 4)

Year 2

- PSYC 2F23, 2P12, 2P30 and 2P31

- one-half PSYC credit numbered 2(alpha)00 to 2(alpha)99

- one PSYC credit numbered 300-399 (see program note 12)

- one elective credit (see program note 12)

Year 3

- taken at Sheridan College

Year 4

- PSYC 3P30

- two PSYC credits numbered 3(alpha)00 to 3(alpha)99

- one and one-half PSYC credits numbered 4(alpha)00 to 4(alpha)99 (see program note 12)

- one elective credit (see program note 12)

Graduate (MA, PhD) Program

The graduate programs allow for study and directed research with a concentration in behavioural neuroscience, life span development or social/personality. For further information, including faculty interests, see the current graduate calendar or the Psychology

Department website.

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

PSYC 1F90

Introduction to Psychology

Basic concepts and contemporary issues in psychology with special attention to learning, physiological, developmental, clinical and social psychology.

Lectures, seminar, 3 hours per week.

Note: prerequisite to all courses in Psychology except PSYC 2F23 and 3Q91.

PSYC 2F23

Statistics and Research Design in the Behavioural Sciences

Principles of research design and data analysis in the context of psychological research.

Lectures, tutorial, 4 hours per week.

Prerequisite: PSYC 1F90 or one Social Science credit.

Note: 4U Mathematics of Data Management or equivalent background recommended.

PSYC 2P12

Lifespan Development

Introduction to theories and research in human development across the lifespan. Topics include development in physical, perceptual, cognitive, linguistic, social and/or emotional domains.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), HEAR, SPLS majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 2F10 and PSYC 2F12.

PSYC 2P20

Cognition

How the mind processes information. Topics include recognition, attention, memory, problem solving, judgment and decision making.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), HEAR, SPLS majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F20.

PSYC 2P24

Classic Theories of Personality

Introduction to personality psychology using a "theorist by theorist" approach. Classic theories of personality, including, psychoanalytic, humanistic and social learning approaches.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F25.

PSYC 2P25

Personality and Individual Differences

Introduction to theory and research in personality and related individual differences. Topics include measurement and structure of personality characteristics; biological bases, genetic and environmental origins, and evolutionary function of personality; personality disorders; personality as a predictor of life outcomes; other domains of psychological variation (religious beliefs and political attitudes, sexuality, occupational interests, mental abilities).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F25.

PSYC 2P30

Fundamentals of Social Psychology

Theory, methods and research examining the influence of others on phenomena such as cognition, the self, attitudes, group processes and communication.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, COMM (single or combined), HLSC majors and PSYC minors until dates specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F30.

PSYC 2P31

The Social Psychology of Social Issues

Theory, methods and research relevant to topics such as personal relationships, aggression, altruism, health and the law.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, COMM (single or combined), HLSC majors and PSYC minors until dates specified in Registration guide.

Prerequisite: PSYC 2P30.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F30.

PSYC 2P35

Introduction to Brain and Behaviour

Biological aspects of behavioural neuroscience. Basics of the structure and function of the nervous system in relation to behaviour. Activities of the brain from the neuron through to interrelationships among neural systems. Topics include neuronal function, drugs and behaviour, brain plasticity and recovery from injury, sensation and perception, and the organization of the brain emphasizing human behaviour.

Lectures, 3 hours per week; seminar, 1 hour per week.

Restriction: open to PSYC (single or combined), CHSC, HEAR, HLSC, KINS, NEUR, SPLS majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: student may not concurrently register in PSYC (NEUR) 2P36.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 2F36 and PSYC 2P36.

* PSYC 2P36

Brain and Behaviour I

(also offered as NEUR 2P36)

Introduction to behavioural neuroscience - biological aspects of behaviour. Basics of the structure and function of the nervous system in relation to behaviour. Activities of the brain from the neuron through to interrelationships among neural systems. Topics include neuronal function, drugs and behaviour, brain plasticity and recovery from injury, sensation and perception, and the organization of the brain with an emphasis on human behaviour.

Lectures, 3 hours per week; lab, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HEAR, HLSC, KINS, NEUR, SPLS majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students may not concurrently register in PSYC 2P35.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 2F36 and PSYC 2P35.

* PSYC 2P37

Brain and Behaviour II

(also offered as NEUR 2P37)

The relationship between brain, physiology and behaviour. Topics relevant to neural mechanisms associated with human actions and cognitions such as motivation (sleep, sexual behaviour, eating), emotions and stress, learning and memory, communication and language, and thought (psychological/psychiatric disorders).

Lectures, 3 hours per week; lab, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HEAR, HLSC, KINS, NEUR, SPLS majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 2P35 or 2P36.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 2F36.

PSYC 2P45

Learning

Presentation of variables and/or conditions contributing to the learning process including a survey of the basic experimental findings and theoretical issues related to learning.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F45.

PSYC 2P49

Perception

Introduction to human perception emphasizing visual and auditory perception, including theory and applications to neurophysiology, speech recognition and development. Integration of smell, taste, balance and time perception to demonstrate the biological and cognitive bases of perception.

Lectures, lab, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F50.

PSYC 3F07

Experiential Psychology

Subjective experience (states of consciousness)

and methods as an alternate approach to mainstream psychology. Phenomena of dreams, psychedelic drugs, schizophrenia, religious mysticism and eastern meditative traditions. Conceptual frameworks from introspective and phenomenological traditions of psychology, neuroscience and psychiatry, as well as constructivist holistic approaches to the metaphoric bases of cognition and human consciousness.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

PSYC 3F20

Abnormal Psychology

Psychopathology and dysfunctional behaviour are discussed with respect to classification, diagnosis, etiology, treatment and prevention. Biological, psychological and social determinants of mental disorder are considered.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P28.

PSYC 3F40

Psychological Research

Research methods in several areas of psychology emphasizing development of the student's capacity to evaluate literature and formulate hypotheses through participation in individual research projects.

Lectures 3 hours per week.

Restriction: open to PSYC (single or combined) and NEUR majors with a minimum 75 percent major average and a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90 and 2F23.

Co-requisite: PSYC 3P39 (must be taken in the Fall session).

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P30, 3P41 and 3P42.

* PSYC 3F81

Neuroscience

(also offered as NEUR 3F81)

Integrative approach to neuroscience from basic elements of molecular neuroscience, physiology of excitable cells, neurophysiology of major brain systems to behavioural neuroscience and selected topics in affective and cognitive neuroscience. Emphasis on the interdisciplinary nature of the subject and the integrative aspects of brain function. General insight into a

number of classical disciplines including neuroanatomy, neurophysiology, neuropharmacology, electrophysiology, neurochemistry and neurology.

Lectures, 2 hours per week; lab, 3 hours alternating weeks.

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 2P36 and 2P37 (2F36) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 3P81 and 3P82.

PSYC 3P05

Advanced Perception

Historical and contemporary issues in perception, with an emphasis on visual and auditory systems. Different approaches to perception, such as cognitive, neuropsychology, applied, and social psychology.

Lectures, lab, 3 hours per week.

Prerequisite: PSYC 2P49.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 2F50 or 2P51.

PSYC 3P11

Theories of Development and Socialization (also offered as CHYS 3P11)

Interdisciplinary exploration of child and youth development and socialization, including the foundational literature in psychology, sociology and anthropology, as well as contemporary and critical interpretive theories of childhood and youth.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/BEd majors with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90 or permission of the Department.

Prerequisite: PSYC 2P12 (2F12) or CHYS 2F10.

PSYC 3P18

Adolescent Development

Theories and research pertaining to development during adolescence. Topics include biological, cognitive and socioemotional development, and the various contexts (family, peers, schools, culture) in which development occurs.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0

overall credits or 3.0 PSYC credits above PSYC 1F90. Not open to CHYS (single or combined) and CHYS (Pass)/BEd (Primary/Junior) majors.

Prerequisite: PSYC 1F90.

PSYC 3P19

Psychology of Aging

Theories and methods of lifespan development as applied to the special issues that emerge during late adulthood; how physiological, social and cognitive factors interact as individuals cope with the tasks of later years.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHYS (single or combined), CHSC, HLSC, LING, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P12 (2F12).

* PSYC 3P23

Psychology of Parenting

(also offered as CHYS 3P23)

Determinants, varieties and consequences of parenting, focusing on psychological research findings in contemporary parenting/parenthood issues. Topics include different styles of parenting, parent-child relationships, child maltreatment, parenting children with different temperaments, and parenting in ecological contexts.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHLH, CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P12 (2F12) or CHYS 2F10.

PSYC 3P28

Introduction to Abnormal Psychology

Selected mental disorders with respect to classification, diagnosis, etiology and treatment. Biological, psychological and social determinants of psychopathology.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits. Not open to PSYC (single or combined) majors.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3F20.

PSYC 3P30

Critical Thinking in Psychology

Development of scientific thinking and discovery procedures in psychology. The design of experiments and quasi-experiments. Control of variables, statistical power and alternative sources of data. Critical analysis of typical examples of contemporary psychological research.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), NEUR majors and PSYC minors with either a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90 and 2F23.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3F40, 3P40 and 3P41.

* PSYC 3P33

Psychology of Intergroup Behaviour

(also offered as COMM 3P33)

Social psychological theories and research in the area of intergroup relations and intergroup conflict. Topics include realistic conflict theory, social identity theory, social exchange, relative deprivation and research on intergroup perceptions and attitudes. Current issues/controversies and implications for the resolution of intergroup conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), COMM (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3P34

Psychology of Human Sexuality

Introduction to the psychological study of human sexuality. Biopsychosocial approaches are applied to different issues in human sexuality. Topics may include sexual differentiation, gender identity and sexual orientation, attraction and love, paraphilias, and sexual physiology.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in CHSC 2P50.

PSYC 3P35

Infant Development

Theory and research pertaining to human development from conception to 24 months including perceptual, cognitive, social and

emotional development. The impact of early experience on later development.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90, PSYC 2P12 (2F12) or CHYS 2F10.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P93 and 4P35.

* PSYC 3P39

Computer Data Analysis

(also offered as NEUR 3P39)

Applications of computers to management and analysis of data, including data entry, statistical procedures and interpretation of output, using SPSS.

Lectures/lab, 3 hours per week.

Restriction: open to PSYC (single or combined) and NEUR majors with a minimum 75 percent major average and a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90 and 2F23.

PSYC 3P41

Psychological Research I

Research methods in several areas of psychology emphasizing development of the student's capacity to evaluate literature and write a research proposal.

Lectures, 3 hours per week.

Restriction: open to PSYC (empirical thesis) Co-op students.

Prerequisites: PSYC 1F90 and 2F23.

Co-requisite: PSYC 3P39.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3F40 and 3P30.

PSYC 3P42

Psychological Research II

Research methods in several areas of psychology emphasizing research design, data acquisition, and writing an APA report.

Lectures, 3 hours per week.

Restriction: open to PSYC (empirical thesis) Co-op students.

Prerequisite: PSYC 3P41.

Completion of this course will replace previous assigned credit in PSYC 3F40 and 3P30.

PSYC 3P45

Comparative Psychology I

Introduction to comparative psychology; an emphasis will be placed on the similarity and differences of behaviour patterns across several species (including humans).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall

credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3P48

Directed Studies I

Topics, readings and/or research chosen in consultation with a faculty member who is willing to supervise the student.

Restriction: students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90 and permission of the Department.

Prerequisite: PSYC 1F90.

PSYC 3P49

Directed Studies II

Topics, readings and/or research chosen in consultation with a faculty member who is willing to supervise the student.

Restriction: students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90 and permission of the Department.

Prerequisite: PSYC 1F90

PSYC 3P51

Health Psychology

Introduction to psychological aspects of health and illness. How behaviour, social context and attitudes influence physiological processes and our health. Topics include health promotion, stress, psychoneuroimmunology, health and physical activity, pain and the health care system.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC majors and PSYC minors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

PSYC 3P53

Introduction to Forensic Psychology

Overview of the field of forensic psychology including psychopathy, risk assessment, criminal profiling, deception, eyewitness identification and jury decision-making.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3P54

Psychology of Western Consciousness

Attention, memory, hemispheric laterality and language are examined from a general systems theory perspective. Topics include nonconscious processes, altered states of consciousness, lucid dreams, self concept and the effects of drugs on consciousness. Western approaches to consciousness are contrasted and integrated with esoteric techniques for altering consciousness.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 1F90.

PSYC 3P55

Psychology of Eastern Consciousness

Asian psychology approached from a Buddhist perspective; the history, evolution, and practical significance of Buddhism. Topics include meditation, Taoism, Hinduism, Zen Buddhism, and Western applications such as biofeedback and therapy. Eastern approaches to consciousness are contrasted and integrated with Western psychology by examining attention, memory and language.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3P58

Psychology of Men

History of psychological thought about masculinity, from sociobiological theory to modern feminist critiques. Topics include theoretical perspectives on the study of gender differences, stereotypes of masculinity, male sexuality, the biology of maleness, and issues related to self-awareness, intimacy, health, the misuse of power and the possibility of reconstructing a more justifiable image of masculinity/maleness.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

* PSYC 3P59

Introduction to Human Neuropsychology

(also offered as NEUR 3P59)

Relation between brain function and behaviour examined through basic research and clinical syndromes. Topics include neural basis of perception, memory, language, emotion and executive functions.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC, LING, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 1.0 PSYC credit above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3P60

Children's Thinking

Theory and research pertaining to cognitive development. Topics include the development of perception, language, memory, problem solving, reading and social cognition.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90; one of PSYC 2P12 (2F12), 2P20 (2F20), 2P49 (2F50), CHYS 2F10.

Note: students may not concurrently register in CHYS 3P65.

Completion of this course will replace previously assigned grade and credit in CHYS 3P65.

PSYC 3P61

Child Language Acquisition: Early Stages

(also offered as CHYS 3P61 and LING 3P61)
Theories, research and methods in early language development. Linguistic stages in the development of child language at the level of grammar and meaning (phonology, morphology, syntax, semantics, pragmatics). Discourse as an indicator of the socialization process. Effects of interaction with care givers. Early bilingualism.

Lectures, seminar, 3 hours per week.

Prerequisite: PSYC 1F90 or LING 1P92 and 1P93 (1F91).

* PSYC 3P67

Bases of Neuropsychopharmacology

(also offered as NEUR 3P67)

Mechanisms of drug action and classification of psychoactive agents. Elements of pharmacokinetics (drug absorption, distribution, metabolism and elimination) and a review of the major groups of psychoactive agents including hypnotics, analgesics, anxiolytics, antidepressants, psychostimulants and neuroleptics. Emphasizing mechanisms and consequences of drug action on selected neurotransmitter systems (dopaminergic, noradrenergic, cholinergic, serotonergic).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P36 (2F36).

PSYC 3P68

Sleep and Wakefulness

Functions, mechanisms, rhythms, physiology and psychology of sleep contrasted with counterparts during wakefulness. Current issues in sleep research and sleep disorders medicine.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 2P36 (2F36).

PSYC 3P72

Drugs and Behaviour

Basic principles of the kinetics of drugs and drug action, drug effects and drug interactions. Psychology of addictive behaviour. Effects of psychoactive drugs on behaviour and experience. Focus on recreational drugs and psychiatric medications.

Lectures, 3 hours per week.

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3P74

Psychology of Computers in Education

(also offered as CHYS 3P74)

Uses of computers in education in light of current theories of child development.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHYS (single or combined), CHYS BA (Honours)/BED (Primary/Junior), CHYS BA (Pass)/Bed, BA Integrated Studies (Honours)/BED (Junior/Intermediate) and BSC Integrated Studies (Honours)/BED (Junior/Intermediate) majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: CHYS 2F10 or PSYC 2P12 (2F12).

Note: this is not a computer programming course.

PSYC 3P75

Stress

Modern theories and misconceptions about the effects of stress on psychology and health. Diverse material ranges from workplace theories of stress to the effect of stress on our immune system. Coping strategies, methods of stress appraisal and behavioural effects are also studied and physiological systems involved with the mammalian stress response.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

* PSYC 3P77

Social Development

(also offered as CHYS 3P77)

Social competence, aggression, friendship and other topics in social development from a variety of developmental perspectives. Methodological and intervention issues relevant to the study of social development.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/Bed majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P12 (2F12), CHYS 2F10 or permission of the instructor.

Note: students may not concurrently register in CHYS 3P24.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P24.

* PSYC 3P80

Psychology of Interpersonal Behaviour

(also offered as COMM 3P80)

Social psychology of interpersonal attraction and relationships, as studied through experimental, correlational and longitudinal designs. Reinforcement, exchange, attributional, equity and balance models. Levels of relationships. Aspects of the maintenance and dissolution of relationships and of interpersonal psychopathology.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), COMM (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

Note: PSYC 2P30 (2F30) recommended.

* PSYC 3P81

Neuroscience I

(offered also as NEUR 3P81)

Integrative approach to basic neuroscience including molecular neuroscience, physiology of excitable cells, neuroembryology, neurocytology, neurohistology, neuroanatomy and cellular electrophysiology. Emphasis on the interdisciplinary nature of the subject including elements of molecular medicine, biology, biophysics and biochemistry.

Lectures, 2 hours per week; lab, 3 hours alternating weeks.

Restriction: open to PSYC Co-op and NEUR Co-op majors with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90. Prerequisites: PSYC 2P36 and 2P37 (2F36) or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 3F81.

* PSYC 3P82

Neuroscience II

(offered also as NEUR 3P82)

Integrative approach to neurophysiology of major brain systems of the spinal cord, medulla, brain stem and mesencephalon, hypothalamus, limbic system and basal ganglia. Introduction to behavioral neuroscience, affective neuroscience, and cognitive neuroscience. Consideration of a number of classic biomedical disciplines including neurophysiology, neuropharmacology, electrophysiology, neurochemistry, neuropsychiatry, neurology and neuropathology.

Lectures, 2 hours per week; lab, 3 hours alternating weeks.

Restriction: PSYC Co-op and NEUR Co-op majors with a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 3P81.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 3F81.

PSYC 3P84

Psychological Trauma

Emotional, physiological and social components of psychological trauma including diagnostic concerns and treatments.

Lectures, 3 hours per week.

Restriction: open to PSYC (single or combined), NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

PSYC 3Q33

Conflict, Contradictions and Development

(also offered as CHYS 3Q33)

Conflict in early human development including the understanding of the causes, management and outcomes of conflicts. Cognitive and social strategies used to resolve conflicts.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) and CHYS BA (Pass)/Bed majors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: PSYC 2P12 (2F12), CHYS 2F10 or permission of the instructor.

* PSYC 3Q90

Consciousness and Society

(also offered as PHIL 3Q90)

Psychodynamic approaches to modern clinical

pathologies of narcissism, transpersonal psychologies of meditation and consciousness, and socio-cultural approaches to spiritual movements are used to examine both the nature of religious-mystical experience and the repeated appearance of mysticism throughout the 20th, century using the personal, social, and political conflicts associated with the life histories of Nietzsche, Emerson, Thoreau, Heidegger, Jung, Blavatsky, Gurdjieff.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), PHIL (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

PSYC 3Q91

Second Language Acquisition and Learning
(also offered as LING 3Q91)

Theories of subsequent-language learning. Topics include psychological aspects of language learning (behaviourism, cognitivism, humanism), language and culture, contrastive analysis, error analysis, interlanguage.

Lectures, seminar, 3 hours per week.

* PSYC 3Q95

Theories of Personality: Freud and Jung

(also offered as PHIL 3Q95)

Major clinically derived theories of personality with special attention to their bases in case study/life history methodology, focusing on Freud and Jung and their continuing relevance for current personality, developmental and transpersonal psychology. The possibly unique relation of "depth psychology" to numinous experience (mysticism, creativity, psychosis).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), PHIL (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

* PSYC 3Q96

Theories of Personality: Developments in Psychodynamic and Transpersonal Psychology

(also offered as PHIL 3Q96)

Major developments in the psychoanalytic and clinical tradition (Kohut, Winnicott, Klein) as they relate to analogous developments within transpersonal and Jungian approaches to "higher" states of consciousness. The conflicts and congruences between these perspectives illustrated by selected life histories (Melanie Klein, Wilhelm Reich, G. Gurdjieff).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or

combined), PHIL (single or combined) majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 1F90.

PSYC 4F90

Literature Review Thesis

Review of the research and theory in a focused area or problem in psychology.
Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours), a minimum 80 percent major average and permission of the Department.
Prerequisites: PSYC 3F40 or 3P30.
Note: PSYC 3P39 is recommended yet not required.

PSYC 4F91

Empirical Research Thesis

Research project carried out with a faculty supervisor whose permission must be obtained prior to registration.
Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours), a minimum 80 percent major average and permission of the Department.
Prerequisites: PSYC 3F40 or PSYC 3P41 and 3P42; PSYC 3P39.
Co-requisite: PSYC 4P95.

PSYC 4P10

Advanced Directed Studies I

Topic, readings and/or research chosen in consultation with a faculty member who is willing to supervise the student.
Restriction: open to PSYC (single or combined) and NEUR majors with a minimum of 13.5 overall credits and permission of the Department.

PSYC 4P11

Advanced Directed Studies II

Topic, readings and/or research activity chosen in consultation with a faculty member who is willing to supervise the student.
Restriction: open to PSYC (single or combined) and NEUR majors with a minimum of 13.5 overall credits and permission of the Department.

PSYC 4P22

Advanced Seminar in Human Memory

Historic and current ideas about memory and the implication these have for our approach to memory in research, everyday function, medical and legal contexts as revealed through such topics as: recollections, tip of the tongue, hypnosis and memory, eyewitness testimony and various memory disorders (psychogenic amnesia, childhood amnesia)
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or

combined), NEUR majors and PSYC minors with a minimum of 13.5 overall credits.
Prerequisite: PSYC 1F90.

PSYC 4P25

Psychological Measurement and Personality Research

Principles of psychological measurement, psychometric theory and test construction. Personality structure and the causes and functions of personality variation. Individual differences in the area of personality and associated domains, including cognitive abilities, interests, attitudes, religiosity, and sexuality. Personality structure and the causes and functions of personality variation. Psychometric theory and test construction.
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.
Prerequisites: PSYC 2F23 and 2P25 (2F25).

PSYC 4P27

Psychology of the Exceptional Child

Examination of selected topics related to atypical child development. Topics may include autism and William's Syndrome, 'gifted' children, mental retardation, ADHD, conduct disorder, eating disorders, and childhood depression and anxiety.
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.
Prerequisites: PSYC 1F90; PSYC 2P12 (2F12) or CHYS 2F10 or permission of the instructor.

PSYC 4P29

Cognitive Neuropsychology

Theories and research methods in cognitive neuropsychology, focusing on the investigation of brain models of information processing.
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or combined), CHSC, NEUR majors and PSYC minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 3P59 (3P98) or permission of the instructor.

PSYC 4P30

Introduction to Positive Psychology

Focus on the ordinary strengths and virtues of functioning. Topics include positive emotional states, cognitions (optimism, hope, self-efficacy), interpersonal orientations (attachment, love, forgiveness), subjective well-

being, spirituality and energy; character; applications to physical and mental health.
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or combined) majors and minors until the date specified in Registration guide. Students must have 13.5 credits or 5.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 1F90.

PSYC 4P34

Psychobiology of Human Sexuality

Advanced topics in human sexuality focusing on current research and a biopsychological perspective.
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits or 5.0 PSYC credits above PSYC 1F90.
Prerequisites: PSYC 1F90; PSYC 3P34 or CHSC 2P50 or permission of the instructor.

PSYC 4P37

Ecopsychology

Theories, methods and assessment tools used by relevant perspectives in psychology that apply to environmental issues. Multiple level comparison of theories and approaches focusing on attainment of individual and collective sustainable environmental solutions.
Lectures, seminar, 3 hours per week.
Restriction: open to PSYC (single or combined) majors and minors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits or 5.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 1F90.
Completion of this course will replace previous assigned grade and credit obtained in PSYC 4P89 or 4V97.

PSYC 4P38

Neuropsychology of Aging and Dementia

Neuropsychological changes associated with normal and pathological aging. Topics include causes and consequences of age-related change in intellectual, social and emotional function; implications for quality of life, rehabilitation and supportive care.
Lectures, seminar 3 hours per week.
Restriction: open to PSYC (single or combined) CHSC, HLSC, LING and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.5 overall credits or 5.0 PSYC credits above PSYC 1F90.
Prerequisite: PSYC 1F90.
Note: students who have a minimum of 5.0 NEUR credits may register. Contact the Psychology Department.

PSYC 4P41

Risk-Taking in Youth

(also offered as CHYS 4P41)

Topics may include youth lifestyle choices, problem behaviour theory, risk and protective factors, competence, and developmental pathways in the context of community, family, peer, and intrapersonal factors.

Seminar, 3 hours per week.

Restriction: open to CHYS BA (Honours)/BEd (Primary/Junior) and CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours). Prerequisite: one of PSYC 3P11, 3P18, 3P23, 3P74, 3Q33, CHYS 3P09, 3P12, 3P24, 3P65. Note: PSYC majors may register. Contact the Department of Child and Youth Studies.

PSYC 4P44

Social Psychology of Justice

Basic research and theories addressing how people think about and respond to justice and injustice as subjective concepts. Topics include the nature of people's motivation for justice, how justice is defined and the influence of justice concerns on human behaviour.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors with a minimum 13.5 overall credits.

Prerequisite: PSYC 1F90.

PSYC 4P45

Community Psychology

Community psychology as conceptualized in the past 20 years emphasizing the interplay between community psychology, deinstitutionalization and the community mental health movements. The contemporary drive for consumer/survivor involvement in the development and provision of service will be a major perspective.

Lectures, seminar, 3 hours per week; field work.

Restriction: open to PSYC (single or combined) majors with a minimum of 13.5 overall credits.

Prerequisite: PSYC 1F90.

PSYC 4P49

Human Emotion

Historical and current beliefs about the nature of human emotions. Topics may include the definition and measurement of emotions, connections between emotional experience, emotion physiology, and emotion regulation across positive and negative affect, the relationship between emotion and other domains of psychology, developmental changes in emotion across adulthood, and/or emotion-related psychopathology (depression, autism).

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors until the date specified in Registration guide. Students must have 13.5 credits or 5.0 PSYC credits above PSYC 1F90. Prerequisite: PSYC 1F90.

PSYC 4P55

Neural Mechanisms, Hormones and Behaviour

Relationships among the hormones of the endocrine system, the nervous system and behaviour; the involvement of hormones in sexual behaviour, the mechanisms of stress, and in cognition; and the relevant research methodologies.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits or 5.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P36 (2F36).

* PSYC 4P56

Maturation and Development

(also offered as CHYS 4P56)

Influences of brain maturation on psychological development and vice versa.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits or 5.0 PSYC credits above PSYC 1F90.

Prerequisite: one of PSYC 2P12 (2F12), 2P36 (2F36), CHYS 2F10.

PSYC 4P63

Human Psychophysiology

Concepts related to acquisition and analysis of bioelectrical signals recorded from the brain, pupillary system, skeletomotor system, cardiovascular system, electrodermal system and respiratory system. Applications to health and human factors include arousal, attention, emotion, stress, immunology, lie detection and brain injury.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined), NEUR majors and PSYC minors until the date specified in the Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2P36 (2F36).

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P96.

PSYC 4P69

Professional Topics in Psychology

Topics may include privacy legislation, confidentiality, research ethics, post-degree training and professional programs, and other issues that individuals in psychology-related professions may face.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined)

majors and minors until the date specified in Registration guide. Students must have 13.5 credits or 5.0 PSYC credits beyond PSYC 1F90. Prerequisite: PSYC 1F90.

PSYC 4P71

Psychology of Prejudice and Discrimination
Theory and research on the basic processes involved in prejudice and discrimination. Topics include stereotyping, emotions, competition, contemporary prejudice, implicit biases, individual differences, and prejudice reduction.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors who hold a minimum of 13.5 overall credits or 5.0 PSYC credits above PSYC 1F90. Prerequisite: PSYC 2P30 (2F30).

Completion of this course will replace previous assigned grade and credit obtained in PSYC 4V96.

PSYC 4P72

Psychology of Violent Predators

Multi-disciplinary approach in an effort to understand the psychology of criminals who engage in predatory violence, including serial killers, mass murderers, child molesters, and rapists. Theories, concepts and research from the fields of psychology, sociology, criminology and criminal justice that social scientists employ to understand and respond to violent criminals.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors who hold a minimum of 13.0 overall credits or 5.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 3F20 or 3P53.

PSYC 4P78

Topics in Clinical Psychology

Issues in assessment techniques, ethical and professional practice issues in clinical psychology.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors who hold a minimum of 13.5 overall credits or 5.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 3F20.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 4V81.

PSYC 4P79

Introduction to Counselling and Psychotherapy

Contemporary major theories of counselling and psychotherapy, including client/person-centered counselling, cognitive-behaviour therapy, interpersonal psychotherapy,

psychodynamic psychotherapy, and post-modern approaches.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors and minors who hold a minimum of 13.5 overall credits or 5.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 3F20.

Completion of this course will replace previously assigned grade and credit obtained in PSYC 4V82.

PSYC 4P80

Special Topics in Applied, Clinical and Health Psychology I

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified in registration guide.

Prerequisite: PSYC 1F90.

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P81

Special Topics in Applied, Clinical and Health Psychology II

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisites: PSYC 1F90.

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P82

Special Topics in Cognition I

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 2P20 (2F20).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P83

Special Topics in Cognition II

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 2P20 (2F20).

Note: a description of upcoming course

offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

* PSYC 4P84

Special Topics in Neuropsychology, Physiological and Comparative Psychology I (also offered as NEUR 4P84)

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) and NEUR majors with a minimum 13.5 credits until the date specified in Registration guide.

Prerequisite: PSYC 2P36 (2F36).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

Completion of this course will replace previous assigned grade and credit obtained in PSYC (NEUR) 4V86-4V89.

* PSYC 4P85

Special Topics in Neuropsychology, Physiological and Comparative Psychology II (also offered as NEUR 4P85)

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) and NEUR majors with a minimum 13.5 credits until the date specified in Registration guide.

Prerequisite: PSYC 2P36 (2F36).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

Completion of this course will replace previous assigned grade and credit in PSYC (NEUR) 4V86-4V89.

PSYC 4P86

Special Topics in Development I

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 2P12 (2F12).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P87

Special Topics in Development II

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 2P12 (2F12).

Note: a description of upcoming course

offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P88

Special Topics in Personality and Social Psychology I

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 2P24 (2F25) or 2P30 (2F30).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P89

Special Topics in Personality and Social Psychology II

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 2P24 (2F25) or 2P30 (2F30).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P90

Special Topics in Methodology

Structure and content of course varies.

Lectures/seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 credits until the date specified.

Prerequisite: PSYC 3F40 or 3P30.

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

PSYC 4P92

History of Psychology

Historical development of the multiple orientations within psychology. Topics include philosophical and scientific influences within psychology.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with a minimum 75 percent major average and a minimum of 13.5 credits or permission of the instructor.

Prerequisite: one of PSYC 3F40, 3P30, PSYC 3P41 and 3P42.

PSYC 4P93

Honours Thesis Seminar

Discussion of Undergraduate thesis research and preparation, including examination of various topics in Psychology.

Lectures, seminar, 3 hours per week.

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours) and permission of the Department.

Co-requisite: PSYC 4F90 or 4F91.

PSYC 4P95

Literature Research

Scientific literature relevant to the topic of the empirical thesis.

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours) and permission of the Department.

Co-requisite: PSYC 4F91.

CO-OP COURSES

PSYC 0N01

Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to PSYC Co-op students.

PSYC 0N02

Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to PSYC Co-op students.

PSYC 0N03

Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to PSYC Co-op students.

PSYC 0N04

Work Placement IV

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to PSYC Co-op students.

PSYC 0N05

Work Placement V

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to PSYC Co-op students.

PSYC 0N90

Co-op Training and Development

Framework for the development of learning objectives by students for individual work terms. Includes orientation to the Co-op experience, goal setting, résumé preparation, interview skills preparation.

Lectures, presentation, site visits, 3 hours per week.

Restriction: open to PSYC Co-op students.

Public Health

This program is offered through the Department of Community Health Sciences

Chair

Anthony F. Bogaert

Undergraduate Program Co-ordinator

Jackie Robb

General Information

Administrative Assistant

Joanne Boucher

905-688-5550, extension 4228

Academic South 329

<http://fabs.brocku.ca/chsc/>

The Honours Bachelor of Public Health focuses on individual, community and population health and wellness emphasizing health promotion, health administration, health policy, and health programming and evaluation. Students are prepared for careers in a broad range of community and public health fields, and postgraduate study in health-related disciplines.

Program Notes

1. To proceed to year 2, students must achieve a minimum grade of 60 percent in CHSC 1F90 and MATH 1P98 as well as have submitted a declaration to major.
2. At least one credit each year must be taken outside the Department of Community Health Sciences.
3. In the 20 credit degree program a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program (only)

Year 1

- CHSC 1F90
- MATH 1P98
- one Humanities context credit
- one Science context credit (BIOL 1F90 recommended)
- one and one-half elective credits

Year 2

- CHSC 2P07, 2P15, 2P21, 2P27, 2P49 and 2P97
- one credit from CHSC 2F95, 2P09, 2P40, 2P50, 2P51, 2P60, 2P65, 2P91
- one elective credit (see program note 3)

Year 3

- CHSC 3F20, 3P07, 3P21, 3P37, 3P50 and 3P60
- one-half credit from CHSC 3P26, 3P27, 3P40, 3P59, 3P80
- one elective credit (see program notes 2 and 3)

Year 4

- CHSC 3P94, 3P96, 4P37, 4P44 and 4P50
- two and one-half elective credits (see program note 4)

Description of Courses

See relevant calendar entry for course descriptions.

Recreation and Leisure Studies

Chair

Ann Marie Guilmette
Colleen Hood (as of July 1, 2009)

Professors

Colleen Hood, Peggy Hutchison

Associate Professors

Scott Forrester, Ann Marie Guilmette, Suzie Lane, Tim O'Connell, Shalini Singh

Assistant Professors

Martha Barnes, Mary Breunig, Sanghee Chun, Garrett Hutson, Trent Newmeyer, Erin Sharpe

Adjunct Professor

Glenn Stalker

Undergraduate Program Adviser

Michael Fawkes

Experiential Learning Co-ordinator

Janet Zanutto

Outdoor Recreation Specialist

Chris Pontsioen

General Information

Administrative Assistant

Sandra Notar

905-688-5550, extension 3259

Academic South 357

<http://fahs.brocku.ca/recl/>

The Department of Recreation and Leisure Studies offers four-year programs of study leading to a Bachelor of Recreation and Leisure Studies Honours and a Bachelor of Recreation and Leisure Studies with Major. The Department also offers a three-year (Pass) program leading to a Bachelor of Recreation and Leisure Studies. The program is designed to qualify graduates for a wide range of positions in the rapidly expanding field of leisure services.

The Community Recreation program focuses on the various dynamics of leisure services provision within diverse and changing communities. This program prepares students in competency areas related to local leisure services provision including administration, marketing, and organizational management. The program also prepares students to work in

the community settings in a way that meets the needs of diverse communities including youth and groups that are marginalized. Related competencies include community development, leadership, youth development, programming and program evaluation, policy analysis and reflective practice. Opportunities for fieldwork are emphasized throughout the curriculum.

The Outdoor Recreation program focuses on leadership in the natural environment. This program provides students with the skills, knowledge and dispositions necessary to serve as wilderness trip leaders, to facilitate groups in outdoor recreation settings, to work in a variety of outdoor and experiential education environments, and to serve as agents of social and environmental change in the world. All classroom and field-based activities include lectures, outdoor and experiential activities, and small group work.

The Inclusive and Therapeutic Recreation program prepares students to work with marginalized individuals (recent immigrants, people who experience poverty, people with disabilities and illnesses, older adults) using leisure to improve functional abilities and quality of life. The program focuses on issues related to building inclusive communities and assisting individuals to use leisure to achieve a healthy lifestyle and prepares students to work in community (Parks and Recreation Departments, Ys) and clinical settings (nursing homes, hospitals, rehabilitation centres). The Department of Recreation and Leisure Studies offers courses that can lead to achieving certification through the National Council for Therapeutic Recreation Certification (NCTRC).

Students can receive credit for participating in extended outdoor recreation field experiences offered by Outward Bound Canada and agencies that have a partnering relationship with the Department. Students are responsible for registering with sponsoring agency, logistics (e.g. transportation, fees) and supplying Department with documentation of successful completion at which point Brock credit will be given. Students must consult the Department before registering with Outward Bound Canada or sponsoring agencies. Depending on the nature and duration of the field experience, students may receive up to two credits (RECL 3Q36, RECL 4Q36, RECL 3P00, RECL 4P00); consult the Department.

Students can receive credit for participating in extended outdoor recreation field experiences offered by the National Outdoor Leadership School (NOLS). Students are responsible for registering with NOLS, logistics (e.g.

transportation, fees) and supplying Department with documentation of successful completion at which point Brock credit will be given. Students must consult the Department before registering with NOLS. Depending on the nature and duration of the field experience, students may receive up to two credits (RECL 3Q26, RECL 4Q26, RECL 3P00, RECL 4P00); consult the Department. Transfer credit is available if a student has received credit from another university or college for participation in a NOLS experience.

Program Notes

1. A minimum 65 percent overall average in RECL 1P91, 1P05, 1P12 and 1P96 is required to continue as a major in Recreation and Leisure Studies.
2. All students must take 3 context credits: one Humanities context credit, one Sciences context credit and one Social Sciences context credit. Two credits must be used to satisfy context credit requirements in year 1.
3. At least four elective credits (excluding context credits) must be taken outside of the Department of Recreation and Leisure Studies.
4. Admission to year 4 (honours) requires a minimum 70 percent major average, a minimum 70 percent non-major average and credit in RECL 3Q07 or 3Q17. Students must submit an application for year 4 studies by July 1.
5. Students in the honours program are strongly encouraged to take both RECL 3Q07 and 3Q17.
6. All inclusive and therapeutic recreation majors are required to take PEKN 1P90, PSYC 1F90, 2P12 and 3P28. PSYC 1F90 can be used to satisfy the Social Sciences context credit requirement.
7. Students in the honours program are strongly encouraged to take RECL 4F15.
8. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree

programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)90; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Community Recreation (Honours only)

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- two and one-half elective credits (see program notes 2 and 3)

Year 2

- RECL 2P00, 2P05, 2P07, 2P11 and 2P21
- two and one-half elective credits (see program notes 2 and 3)

Year 3

- RECL 2P92, 3P11 and 3P25
- RECL 3Q07 or 3Q17
- one of RECL 3P30, 3P31, 3P35, 3P40, 3P45, 3P70, 3P93 (see program note 4)
- one-half RECL credit numbered 2(*alpha*)90 or above (see program note 5)
- two elective credits (see program notes 3 and 4)

Year 4

- RECL 4P05, 4P17 and 4P21
- RECL 4P57 or 4P97
- one RECL credit numbered 3(*alpha*)90 or above
- two elective credits (see program notes 3, 5 and 7)

Inclusive and Therapeutic Recreation (Honours only)

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- PEKN 1P90
- PSYC 1F90 (see program note 6)
- one elective credits (see program notes 2, 3 and 6)

Year 2

- RECL 2P00, 2P07, 2P11, 2P21 and 2P52
- PSYC 2P12
- two elective credits (see program notes 2, 3 and 6)

Year 3

- RECL 2P92, 3P11, 3P22 and 3P32
- RECL 3Q07 or 3Q17
- PSYC 3P28
- one and one-half credits from RECL 2P12,

3P04, 3P23, 3P24, 3P25, 3P30, 3P31, 3P43, 4F15, 4P51 (see program note 4 and 7)

- one-half elective credit (see program notes 3, 4, 5 and 6)

Year 4

- RECL 4F02, 4P12, 4P17, 4P21 and 4P22
- RECL 4P57 or 4P97
- one and one-half elective credits (see program notes 3 and 5)

Outdoor Recreation (Honours only)

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- two and one-half elective credits (see program notes 2 and 3)

Year 2

- RECL 2F16, 2P00, 2P07, 2P11 and 2P21
- two elective credits (see program notes 2 and 3)

Year 3

- RECL 2P92, 3P11, 3P30 and 3P86
- RECL 3Q07 or 3Q17
- one-half credit from RECL 3P06, 3P26, 3P36, 3P76, 3Q16, 3Q26, 3Q36, 3Q46 (see program note 4)
- two elective credits (see program notes 3, 4 and 5)

Year 4

- RECL 4P57 or 4P97
- RECL 4P16, 4P17, 4P21 and 4P96
- one-half RECL credit numbered 3(*alpha*)90 or above (see program note 5)
- two elective credits (see program notes 3 and 7)

Bachelor of Recreation and Leisure Studies with Major

Community Recreation

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- two and one-half elective credits (see program notes 2 and 3)

Year 2

- RECL 2P00, 2P05, 2P07, 2P11 and 2P21
- two and one-half elective credits (see program notes 2 and 3)

Year 3

- RECL 2P92, 3P11 and 3P25
- one credit from RECL 3P30, 3P31, 3P35,

3P40, 3P45, 3P70, 3P93

- one-half RECL credit numbered 2(*alpha*)90 or above
- two elective credits (see program note 3)

Year 4

- RECL 4P05, 4F15 and 4P21
- one RECL elective credit numbered 3(*alpha*)90 or above
- two elective credits (see program note 3)

Inclusive and Therapeutic Recreation

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- PEKN 1P90
- PSYC 1F90 (see program note 6)
- one elective credit (see program notes 2, 3 and 6)

Year 2

- RECL 2P00, 2P07, 2P11, 2P21 and 2P52
- PSYC 2P12
- two elective credits (see program notes 2, 3, and 6)

Year 3

- RECL 2P92, 3P11, 3P22 and 3P32
- PSYC 3P28
- one and one-half credit from RECL 2P12, 3P04, 3P23, 3P24, 3P25, 3P30, 3P31, 3P43, 4P51
- one elective credit (see program notes 3, 4 and 6)

Year 4

- RECL 4F02, 4F15, 4P12, 4P21 and 4P22
- one and one-half elective credits (see program note 3)

Outdoor Recreation

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- two and one-half elective credits (see program notes 2 and 3)

Year 2

- RECL 2F16, 2P00, 2P07, 2P11 and 2P21
- two elective credits (see program notes 2 and 3)

Year 3

- RECL 2P92, 3P11, 3P30 and 3P86
- one of RECL 3P06, 3P26, 3P36, 3P76, 3Q16, 3Q26, 3Q36, 3Q46 (see program note 4)
- one-half RECL credit numbered 2(*alpha*)90 or above
- two elective credits (see program note 3)

Year 4

- RECL 4F15, 4P16, 4P21 and 4P96
- one-half RECL elective credit numbered 3(*alpha*)90 or above
- two elective credits (see program note 3)

Pass Program

Year 1

- RECL 1P05, 1P12, 1P91 and 1P96 (see program note 1)
- APCO 1P01
- two and one-half elective credits (see program notes 2 and 3)

Year 2

- RECL 2P00, 2P07, 2P11 and 2P21
- three elective credits (see program notes 2 and 3)

Year 3

- RECL 2P92 and 3P11
- two RECL credits numbered 2(*alpha*)90 or above
- two elective credits (see program note 3)

Brock/Colleges Articulation Agreement

Canadore College, Centennial College, Fanshawe College, Mohawk College, and Niagara College Recreation and Leisure Services Program Diploma graduates who have achieved a minimum 75 percent overall average will be granted up to seven and one-half credits, as determined by the Office of the Registrar at Brock, towards their BRLS degree.

Conestoga College, Humber College, Loyalist College, Seneca College and Sir Sanford Fleming College Recreation and Leisure Services Program Diploma graduates who have achieved a minimum of 75 percent overall average will be granted up to six and one-half credits, as determined by the Office of the Registrar at Brock, towards their BRLS degree.

Brock BRLS pass degree students, who have obtained a minimum 65 percent average, may complete their Recreation and Leisure Services Diploma at Canadore College, Centennial College, Conestoga College, Fanshawe College, Humber College, Loyalist College, Mohawk College, Niagara College or Sir Sanford Fleming College in two semesters as full-time students.

Niagara College Recreation and Leisure Services Program Diploma graduates who have achieved a minimum 80 percent overall average will be

granted up to nine credits, as determined by the Office of the Registrar at Brock, towards a BRLS Honours or With Major degree majoring in inclusive and therapeutic recreation.

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course
* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

RECL 1P03

Introduction to Leisure in Canadian Society
Understanding leisure in contemporary society. Enhancing quality of life for a variety of life stages and circumstances. Role of leisure in urban and rural communities. Benefits, opportunities, services, resources, and constraints on leisure.

Lectures, 3 hours per week.

Restriction: not open to RECL majors.

Completion of this course will replace previous assigned grade and credit obtained in RECL 1P91.

RECL 1P05

Introduction to Community Recreation
Introduction to administration of community recreation services and community development through recreation. Topics include planning, local governance, policy, community development, youth services, and social development.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors.

Prerequisite: RECL 1P91 or permission of the instructor.

RECL 1P12

Introduction to Inclusive and Therapeutic Recreation

Philosophical and theoretical underpinnings of inclusive and therapeutic recreation services, including concepts and models of service delivery.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors.

Prerequisite: RECL 1P91 or permission of the instructor.

RECL 1P91

Introduction to Leisure Studies

Nature, significance and theories of recreation, leisure, and tourism, participation and opportunities for involvement and experiences, resource management, delivery and facilitation structures.

Lectures, seminar, lab/tutorial, 4 hours per week.

Restriction: open to RECL majors.

Completion of this course will replace previous assigned grade and credit obtained in RECL 1P03.

RECL 1P96

Introduction to Outdoor Recreation

Fundamental concepts and historical perspectives; themes central to outdoor recreation including parks, wilderness, natural resources, adventure recreation, and leadership.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors.

Prerequisite: RECL 1P91 or permission of the instructor.

RECL 2F16

Outdoor Recreation Theory and Practices

Examination of outdoor recreation theories and engagement in a variety of introductory outdoor field experiences. May involve backpacking, winter camping, rock climbing, canoeing, snowshoeing and cross country skiing.

Lectures, lab, field experiences, 3 hours per week.

Restriction: open to Outdoor Recreation majors with a minimum of 4.0 overall credits or permission of the instructor.

Prerequisite: RECL 1P96 or permission of the instructor.

Note: course includes required weekend experiences; field experience fee will be charged; consult the Department.

Completion of this course will replace previous assigned grade and credit obtained in RECL 2P16 and 2P66.

RECL 2P00

Recreation Programming

Consumer behaviour and factors affecting recreation participation. Planning, developing, implementing and evaluating programs and services; leadership and supervision responsibilities.

Lectures, seminar, 3 hours per week; plus fieldwork.

Restriction: open to RECL majors with a minimum of 4.0 overall credits.

Prerequisite: RECL 1P91 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

RECL 2P05

Benefits of Community Recreation

Personal, social, economic, environmental and community benefits of incorporating leisure into lifestyle changes.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors with a minimum of 4.0 credits.

Prerequisite: RECL 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 3P94.

RECL 2P07

Introduction to Research Design and Evaluation

Principles and techniques for research. Issues concerning the construction, administration and evaluation of data collection as well as the processing and analysis of data.

Lectures, lab, 3 hours per week.

Restriction: open to RECL majors with a minimum of 4.0 credits.

Prerequisite: RECL 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 2P08 and SPMA 2P07.

RECL 2P11

The Social Psychology of Leisure and Recreation

Dimensions of human behaviour during free time including lifestyle, social habits and motives for leisure and recreation.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors with a minimum of 4.0 overall credits.

Prerequisite: RECL 1P91 or permission of the instructor.

RECL 2P12

Leisure Across the Lifespan

Practical and theoretical aspects of lifespan development relating to the conceptualization and implementation of recreation and leisure services.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors until date specified in the Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 1P03 or 1P91 or permission of the instructor.

RECL 2P21

Leadership in Parks, Recreation, and Leisure Services

Leadership theory and practice at the small group, agency, and community level in a range of parks, recreation, and leisure services

contexts. Essential skills of leadership focusing on ethical and value-based leadership with diverse people and communities.

Restriction: open to RECL majors with a minimum of 4.0 overall credits.

Prerequisite: RECL 1P91 or permission of the instructor.

RECL 2P52

Leisure and Disabilities

Examination of various disabilities (e.g. intellectual, emotional, social and physical) and illnesses. Leisure lifestyles within these contexts and the facilitation of meaningful leisure opportunities for all persons.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors with a minimum of 4.0 overall credits.

Prerequisite: RECL 1P12 or permission of the instructor.

RECL 2P92

Leisure and Diversity

Understanding diversity within the leisure context in Canadian society. Issues related to disability, illness, age (youth and older adults), gender, poverty, sexual identity and race/ethnicity. Emphasis on attitudes and creating meaningful leisure opportunities and leisure lifestyles in diverse communities.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P21 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 1P09.

RECL 3P00

Directed Readings

Topic not covered in the department's regular course offerings.

Restriction: students must have a minimum 75 percent major average, a minimum 7.0 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise.

RECL 3P04

Leisure and Health Relationships

Physical, psychological and social factors that affect leisure and health behaviours, including self-concept, social support and stress management. The role of leisure in the pursuit of life satisfaction.

Lectures, 3 hours per week.

Restriction: open to RECL majors until date specified in Registration guide. Students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 1P03 or 1P91 or permission of the instructor.

RECL 3P06

Outdoor Recreation Resource Management

Social and ecological principles in the management of people in outdoor settings. Theoretical and applied perspectives on decision-making systems (governance), management frameworks, and site considerations.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 1P96 or permission of the instructor.

RECL 3P11

Sociological Aspects of Leisure

Theories and methods common to the social investigation of leisure. Classic and topical literature demonstrating the impact leisure has on outcomes of interest and the role of leisure in society.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisites: RECL 2P07 and 2P11 or permission of the instructor.

RECL 3P13

Play and Culture

Play in socio-cultural contexts; children's play and playgrounds; games and gaming; word play (storytelling, drama, humour); play and youth culture, adult play and leisure; festivals and celebrations.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 overall credits until date specified in Registration guide.

Prerequisite: RECL 1P03 or 1P91 or permission of the instructor.

RECL 3P22

Leisure Education and Counselling in Inclusive and Therapeutic Recreation

Tools, techniques and strategies for leisure education and counselling. Creating leisure awareness in individuals who are marginalized due to disability, age, or other factors.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P52 or permission of the instructor.

RECL 3P23

Therapeutic Benefits of Humour

Functions and dynamics of superiority, arousal and incongruity humour theories. Contributions of humour to well-being, tension relief, personal efficacy and competency and social facilitation.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P11 or permission of the instructor.

RECL 3P24

Psychosocial Coping and Adaptation

Role of leisure in the processes of psychosocial coping, and adaptation to negative life events and conflicts in society. Differentiation between coping, adaptation, and post-traumatic growth. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P11 or permission of the instructor.

RECL 3P25

Community Development in Recreation

Various theoretical perspectives on community organization and development. Methods available to the recreation practitioner to facilitate the development of recreation services in communities. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 9.0 overall credits.

Prerequisite: RECL 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 3P21.

RECL 3P26

Outdoor and Environmental Education

Theoretical and practical investigation of the outdoors as a setting to develop environmental awareness and connection to place. *Lectures, 3 hours per week; plus fieldwork.*

Restriction: open to RECL, BPhEd, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Junior/Intermediate) and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 7.0 overall credits. Prerequisite: RECL 1P96 or PEKN 1P93 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

RECL 3P30

Risk Management in Recreation

Issues and concerns with the identification and management of recreation and leisure programs on individual, organizational and industry-wide levels. Legal and industry standards for risk management. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P00 or permission of the instructor.

RECL 3P31

Canadian Leisure Policy

Policy perspectives on leisure and recreation from all levels of government, non-governmental organizations and corporations. Historical and contemporary cases of leisure policy in the Canadian context. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P11.

RECL 3P32

Services and Techniques in Inclusive and Therapeutic Recreation

Procedures necessary for assessment, planning, implementation, management and evaluation in inclusive and therapeutic recreation services. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 2P52 (3P02) or permission of the instructor.

RECL 3P35

Youth Culture, Development and Leisure Engagement

Exploration and examination of the developmental stages of youth and the role of leisure and recreation along these stages, policies that shape the provision of leisure services for youth, youth recreation management and programming, youth cultures, and current issues and contexts necessary to deliver youth leisure services within a variety of settings, agencies and organizations. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisite: RECL 1P91 or permission of the instructor.

RECL 3P36

Adventure-Based Learning in Recreation

Theoretical and practical investigation of historical, social, and psychological foundations of adventure recreation, focusing on the use of adventure programming to develop learning in self and groups. *Lectures, 3 hours per week; plus fieldwork.*

Restriction: open to RECL majors until date specified in the Registration guide. Students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 1P03, 1P91 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

RECL 3P40

Marketing in Recreation Service Organizations

Marketing concepts and methods available to public, commercial, and private tourism and recreation organizations. Topics include societal

marketing philosophy, issues surrounding the marketing of services, market research, market segmentation, and marketing mix strategies related to programming, distributing, pricing, and promoting tourism and recreation services. *Lectures, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 credits.

Prerequisite: RECL 2P05 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P51, 2P52 and SPMA 3P65.

* RECL 3P43

Gender, Leisure and Families

(also offered as WISE 3P43)

Reciprocal relationships between leisure and gender, gender roles, and family structures. Issues of resistance and reconstruction of gender roles within families and leisure. *Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 2P11, WISE 1F90 or permission of the instructor.

RECL 3P45

Campus Recreation

Practical and theoretical aspects of campus recreation relating to different programming areas, values of recreational sports and the role of campus recreational sports programs in the context of higher education settings. *Lecture, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 credits.

Prerequisite: RECL 2P00 or permission of the instructor.

RECL 3P55

Field Experience in Recreation and Leisure

Leisure forms (recreation, play, sport, the arts) in a different socio-cultural context (national or international); recreation as a tool for social development; comparative analysis of leisure policy and service delivery. *Lectures, lab, fieldwork*

Restriction: students must have a minimum of 9.0 overall credits and permission of the Department.

Note: students must complete an application and interview prior to being admitted. Students are required to pay their own expenses.

RECL 3P70

Financing Recreation Service Organizations

Finance for public and commercial recreation organizations. Topics include budgeting, income sources, pricing, grant writing, and resource acquisition in addition to alternative revenue generation practices including sponsorship, donations, partnerships, and volunteer support.

Lectures, 3 hours per week.

Restriction: open to RECL majors until date specified in the Registration guide. Students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 2P05, 2P07 or permission of the instructor.

RECL 3P76

Outdoor Program Management

Examination and analysis of the organization and operation of outdoor recreation programs, challenge courses, residential and day camps and/or environmental education programs.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 credits.

Prerequisites: RECL 1P96 and 2P00 or permission of the instructor.

RECL 3P86

Advanced Outdoor Leadership Theory and Practices

Examination of advanced outdoor leadership theories and pedagogy. Engagement in an extended outdoor field experience, leadership skill development and co-instructional opportunities.

Field trip, seven days; pre-trip session, three days; post-trip session, four days.

Restriction: open to RECL majors with a minimum of 13.5 overall credits.

Prerequisite: RECL 2F16 or permission of the instructor.

Note: this course will be conducted the first two weeks of the Spring session. Field experience fee will be charged; consult the Department.

RECL 3P93

Principles of Sustainability, Community Recreation and Leisure

Case applications in sustainable recreation/leisure pursuits, with respect to local conditions (natural, social and economic factors). Initiating and developing sustainable leisure and recreation practices.

Lectures, 3 hours per week.

Restriction: open to RECL majors until date specified in the Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: RECL 1P03 or 1P91 or permission of the instructor.

RECL 3P95

Leisure Services Field Work

Practical experiences in specific leisure service agencies. Placement in a community recreation or leisure setting.

Seminar, field work, 3 hours per week.

Restriction: open to RECL majors with a minimum of 9.5 overall credits.

Completion of this course will replace previous assigned grade and credit obtained in RECL 4F15.

RECL 3Q07

Quantitative Analysis

Quantitative means of understanding, interpreting and analyzing statistical data and information.

Lectures, lab, 3 hours per week.

Restriction: open to RECL majors until date specified in the Registration guide. Students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 2P07 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P08.

RECL 3Q16

Environmental and Ecological Literacy

Examination of relevant theories and concepts including the roles of environmental and heritage interpretation as pathways to ecological literacy.

Lectures, lab, 3 hours per week.

Restriction: open to RECL majors with a minimum of 7.0 credits.

Prerequisite: RECL 1P91 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

RECL 3Q17

Qualitative Approaches to Inquiry

Theories, approaches, designs, methods and procedures for conducting qualitative studies.

Lectures, seminar, 3 hours per week.

Restriction: open to RECL majors until date specified in the Registration guide. Students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 2P07 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in CHSC 3P37, and PEKN 3P18.

RECL 3Q26

National Outdoor Leadership Field Experience I

May include practice of wilderness expedition skills, leadership, group dynamics, safety, judgment and environmental studies.

Extended field experience.

Restriction: permission of Department.

Note: students can receive credit for participating in extended outdoor recreation field experiences offered by NOLS. Students are responsible for registering with sponsoring agency, logistics (e.g. transportation, fees) and supplying Department with documentation of successful completion.

RECL 3Q36

Outward Bound Canada Field Experience I
Expedition management, outdoor leadership, wilderness travel, risk management, environmental assessment and ecological stewardship through participation in an Outward Bound Canada course.

Extended field experience.

Restriction: permission of Department.

Note: students can receive credit for participating in extended outdoor recreation field experiences offered by Outward Bound Canada. Students are responsible for registering with sponsoring agency, logistics (e.g. transportation, fees) and supplying Department with documentation of successful completion.

RECL 3Q46

Wilderness First Responder

Fundamental concepts and practical application of wilderness first aid in remote outdoor settings, engagement in outdoor emergency scenarios and tools, techniques, and strategies for evacuation of patients in remote settings.

Lectures, practical experiences, 80 hours.

Restriction: permission of the Department.

Note: students can receive credit for participating in approved Wilderness First Responder courses; consult the Department. Students are responsible for registering with sponsoring agency, logistics (e.g. transportation, fees) and supplying Department with documentation of successful completion. Credit will not be given for re-certification.

RECL 3V40-3V99

Special Studies in Recreation and Leisure

Series of lectures, seminars and practical experiences offered in specialized areas of recreation and leisure.

Restriction: open to RECL majors and permission of the Department.

RECL 4F02

Internship in Inclusive or Therapeutic Recreation

Minimum of three months, full-time internship in either an inclusive recreation setting (e.g. integrated camp, municipal program) or a therapeutic recreation setting (e.g. nursing home, hospital, rehabilitation facility).

Orientation, seminar, evaluation workshops, 12 hours.

Restriction: open to Inclusive and Therapeutic Recreation majors with a minimum of 17.5 credits or approval for year 4 (honours).

Prerequisites: RECL 4P12 and 4P22 or permission of the instructor.

Note: internship proposal must be submitted no later than February 1st each year for approval by the Department. Internship may be remunerated or volunteer.

Note: course materials fee will be charged;

consult the Department.

RECL 4F15

Program Evaluation in Professional Practice

Program evaluation and needs assessment in planning, managing, and administering delivery of leisure services and programs. Theory integrated with professional development and practical experiences in recreation and leisure organizations.

Lectures, fieldwork, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits.

Prerequisite: RECL 2P07 or permission of the instructor.

Note: materials fee will be charged; consult the Department.

Completion of this course will replace previous assigned grade and credit obtained in RECL 3P95.

RECL 4F25

Internship in Community Recreation

Minimum of three months (12 weeks) full time internship in an approved community based recreation service organization (municipality, not-for-profit organization, grassroots community organization).

Orientation, seminar, evaluation workshops, 12 hours.

Restriction: open to Community Recreation majors with a minimum of 17.5 overall credits. Prerequisite: RECL 4P05 or permission of the instructor.

Note: materials fee will be charged; consult the Department.

RECL 4F26

Internship in Outdoor Recreation

Minimum of three months (12 week) full time internship in an approved outdoor recreation based organization (conservation authority, outdoor outfitter, camp organization, outdoor/experiential education centre).

Orientation, seminar, evaluation workshops, 12 hours.

Restriction: open to Outdoor Recreation majors with a minimum of 17.5 overall credits. Prerequisite: RECL 4P16, RECL 4P96 or permission of the instructor.

Note: materials fee will be charged; consult the Department.

RECL 4F55

International Field Experience in Recreation and Leisure

Leisure forms (recreation, play, sport, the arts) in an international context; recreation as a tool for social development; comparative analysis of leisure policy and service delivery; leisure and socio-cultural relationships.

Lectures, lab, fieldwork.

Restriction: open to RECL majors with a minimum of 13.5 overall credits and permission of the Department.

Note: students must complete an application and interview prior to being admitted into the course. Students are required to pay their own expenses.

RECL 4P00

Advanced Directed Readings

Topic not covered in the department's regular course offerings.

Restriction: students must have a minimum 75 percent major average, a minimum of 13.5 overall credits and permission of the Department.

Note: topics must be chosen in consultation with a faculty member willing to supervise.

RECL 4P05

Community and Recreation Planning

Types of recreation plans emphasizing all steps of a comprehensive strategic planning model that can be used in any recreation planning initiative.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisite: RECL 3P40, 3P70 or permission of the instructor.

RECL 4P10

Advanced Topics in Community Recreation Services

Issues and concerns related to administration and management of recreation services.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisite: one of RECL 3P25, 3P40, 3P70.

RECL 4P12

Advanced Practices in Inclusive Recreation

Critique of history, philosophy, theories and procedures underlying inclusive recreation in Canadian society. Issues related to the practice of inclusive recreation.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisites: RECL 3P22 and 3P32 or permission of the instructor.

RECL 4P16

Advanced Wilderness Program Planning

Analysis and application of the planning and execution of an extended outdoor wilderness trip.

Lectures, 3 hours per week.

Restriction: open to Outdoor Recreation majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisites: RECL 3P30 and 3P86 or permission of the instructor.

Note: additional ten day field trip is required.

Field experience fee will be charged; consult the Department.

RECL 4P17

Honours Thesis Proposal

Development of a research proposal, providing the framework for an individual or group thesis.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits and approval to year 4 (honours).

Prerequisite: RECL 2P07; RECL 3Q07 or 3Q17

Note: the proposal will be formally presented to the project supervisor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 4F07 and 4F97.

RECL 4P21

Cultural Politics of Leisure

Leisure as a cultural and political phenomenon. Emphasis on popular leisure pursuits such as toys, television and film, sport, gambling and deviant leisure. Issues of power, status, representation, commodification and social control.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisite: RECL 3P11 or permission of the instructor.

RECL 4P22

Advanced Practices in Therapeutic Recreation

Critique of contemporary intervention strategies used in therapeutic recreation service. Issues related to professional practice.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisites: RECL 3P22 and 3P32 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 4P02.

RECL 4P50

Entrepreneurship in Recreation Service Organizations

Starting a new recreation service business including the study of the characteristics of an entrepreneur, the identification and evaluation of business opportunities in the recreation services field, the assembly of resources and the development of a business plan. Entrepreneurship as it relates to the management of recreation service organizations.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits.

Prerequisite: RECL 3P40, 3P70 or permission

of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 3P50.

RECL 4P51

Group Dynamics in Recreation

Analysis and application of group dynamics theory, techniques and research to successful group facilitation in a recreation context.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisite: RECL 2P21 or permission of the instructor.

RECL 4P57

Group Honours Thesis

Collection and analysis of data and evaluation of findings based on the proposal developed in RECL 4P17.

Restriction: open to RECL majors with a minimum of 13.5 overall credits and approval to year 4 (honours).

Co-requisite: RECL 4P17.

RECL 4P93

Global Policies in Recreation and Leisure

International perspectives and comparisons relating to provisioning for recreation and leisure facilities at local, regional and national levels; international frameworks and processes; issues and cases in recreation policy.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 credits or approval to year 4 (honours).

Prerequisite: RECL 3P11, 3P31 or permission of the instructor.

RECL 4P95

Urban Leisure and Youth

Urban development issues and impacts on youth. Urbanism and urban leisure lifestyles, cultures and identities. Youth social relations and the environment as contexts for leisure.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 credits or approval to year 4 (honours).

Prerequisite: RECL 3P11, 3P35 or permission of the instructor.

RECL 4P96

Issues in Outdoor Recreation

Cultural, contemporary and future issues and concerns in outdoor recreation.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisites: RECL 3P30 and 3P86 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in RECL 4P06.

RECL 4P97

Individual Honours Thesis

Collection and analysis of data and evaluation of findings based on the proposal developed in RECL 4P17.

Restriction: open to RECL majors with a minimum 80 percent major average, minimum 13.5 overall credits, approval to year 4 (honours), permission of the Department and a faculty member.

Co-requisite: RECL 4P17.

Completion of this course will replace previous assigned grade and credit obtained in RECL 4F97.

RECL 4Q26

National Outdoor Leadership Field Experience II

May include practice of wilderness expedition skills, leadership, group dynamics, safety, judgment and environmental studies.

Extended field experience.

Restriction: permission of Department.

Note: students can receive credit for participating in extended outdoor recreation field experiences offered by NOLS. Students are responsible for registering with sponsoring agency, logistics (e.g. transportation, fees) and supplying Department with documentation of successful completion.

RECL 4Q36

Outward Bound Canada Field Experience II

Remote wilderness experience with cultural exchange in Inuit communities on Baffin Island with Outward Bound Canada. May involve skiing, dogsledding, home stays and trips with Inuit hunters and elders.

Extended field experience.

Restriction: permission of Department.

Note: students can receive credit for participating in extended outdoor recreation field experiences offered by Outward Bound Canada. Students are responsible for registering with sponsoring agency, logistics (e.g. transportation, fees) and supplying Department with documentation of successful completion.

RECL 4Q96

Experiential Education in Outdoor Recreation

Historical, philosophical, spiritual, psychological foundations, theories and practices of experiential education in outdoor recreation.

Lectures, 3 hours per week.

Restriction: open to RECL majors with a minimum of 13.5 overall credits or approval to year 4 (honours).

Prerequisite: RECL 1P96 or permission of the instructor.

Sociology

Chair

Murray E. G. Smith
(John Sorenson as of July 1, 2009)

Professors

June Corman, Ann Duffy, Thomas Dunk,
Daniel G. Glenday, Jane Helleiner, Murray E.
G. Smith, John Sorenson

Associate Professors

Kate Bezanson, Jonah Butovsky, Janet Conway,
Michelle Webber, Ana Isla

Assistant Professors

Nancy Cook, Ifeanyi Ezeonu, Ellen Faulkner,
Margot Francis, Kevin Gosine, Tamari Kitossa,
Hijin Park, Mary-Beth Raddon, Dennis Soron

Department Administrator

Viola Bartel

Undergraduate Adviser

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Jill DeBon

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The Department of Sociology offers students a unique opportunity to cultivate their intellectual curiosity and social awareness, and to develop their capacity to engage in a critical, informed and self-reflective way with the key social institutions, relationships and processes shaping the world in which they live.

Sociology, by its very nature, encompasses all spheres of social life. Accordingly, it allows students to delve into a rich variety of fascinating topics of the greatest historical and contemporary relevance: animal studies; gender; sexism; family life; sexuality; race and racism; cultural identity; globalization; imperialism and colonialism; immigration; poverty and class inequality; work and the economy; education; religion; the environment; crime, prisons and social repression and social movements. Underlying the wide range of issues taken up in the department's teaching and research activities is a shared commitment

to analyzing inequality, oppression, exploitation in all of their varied manifestations and exploring the forms of resistance and struggle to which they give rise.

Students of Sociology develop useful skills that they can carry forward into many areas of their future lives. They learn the basic principles and techniques of social research and are given the opportunity to develop more advanced skills in both qualitative and statistical analysis. They expand their critical thinking, theory-construction and problem-solving abilities and sharpen their skills in oral and written expression. Finally, by learning to develop and to support their ideas while remaining responsive to contending opinions and perspectives, they greatly enhance their ability to work constructively with others, to think outside the narrow confines of ingrained cultural prejudices and habitual forms of "common sense," and to respond creatively and proactively to a wide range of personal, social and political challenges.

Students declaring a major in Sociology can pursue one of four programs: an Honours BA program either in Sociology alone or as a combined major and a Pass BA program either (single or combined). In addition to combined major programs in other academic departments, Sociology students may co-major in interdisciplinary Centres such as Canadian Studies, Labour Studies or Women's Studies.

Students with a minimum 70 percent Sociology average may declare the BA Honours or combined Honours program at any time. The Honours program provides students with the opportunity for a more intensive examination of issues in the field. Request for admission to Year 4 (Honours) is by application (available on line at <http://www.brocku.ca/registrar/forms/index.html> or the Registrar's Office) and requires a minimum 70 percent major average and completion of a minimum 13.5 overall credits. Submit honours applications to the Department Administrator.

Students declaring a major in Sociology (Honours, Pass) are responsible for ensuring that their programs satisfy the departmental requirements. The Administrator and Assistant Adviser provide academic advising to Sociology students upon request. To declare a major in Sociology, normally at the completion of SOCI 1F90, a declaration of major form must be completed (available on-line at <http://www.brocku.ca/registrar/forms/index.html> or at the Office of the Registrar) by June 1st and a minimum 65 percent Sociology average is required. Declarations are approved by the Department Administrator or Assistant Adviser.

Sociology and Labour Studies-George Brown College

This program involves courses offered through Brock and George Brown College of Applied Arts and Technology. This four-year program combines courses and training in applied labour studies settings at George Brown College with a degree in Sociology and Labour Studies at Brock. The program caters to individuals who wish to have a career in a wide variety of areas including unionized environments, occupational health and safety, politics, or human resources. The program allows students to gain both solid applied skills in these areas, and a strong theoretical knowledge about a variety of these topics. Students who successfully complete the requirements for this program will be granted both a degree from Brock, and two certificates from George Brown College 1) a certificate in Contemporary Labour Perspectives from the George Brown School of Labour, and 2) a Post-Graduate Certificate in Human Resources Management. Gaining both a degree and these certificates would ordinarily involve attending college after gaining a university degree, but the Brock and George Brown program combines the two in a single integrated package that can be completed in four years. Enrolment is limited.

Please consult the Labour Studies entry for a listing of program requirements.

Sociology and Labour Studies-Mohawk College

This program involves courses offered through Brock University and Mohawk College of Applied Arts and Technology. This four-year program combines training in a variety of applied labour studies settings at Mohawk College with an honours degree in Sociology and Labour Studies at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in various aspects of labour studies. The program leads to career opportunities in a wide variety of areas including unionized environments, occupational health and safety, politics, and human resources. Obtaining both an honours degree and a college certificate would ordinarily involve at least five years of study, but this Brock-Mohawk program combines the two in a single integrated package that can be completed in four years. Enrolment is limited.

Please consult the Labour Studies entry for a listing of program requirements.

Policing and Criminal Justice

The Policing and Criminal Justice program involves courses offered through Brock and Niagara College of Applied Arts and Technology. This four-year program combines training in policing and criminal justice with

an education in a chosen academic discipline, which may be Human Geography, Political Science, Psychology or Sociology. For students majoring in Sociology, this four-year program leads to a BA (Honours) in Sociology and a diploma in Police Foundations from Niagara College. The program caters to the increasing demand in society for professionals who possess both solid applied skills and the substantive knowledge needed to apply them to the areas of policing and criminal justice. This would ordinarily involve attending college after gaining a university degree, but the Brock and Niagara program combines the two in a single integrated package. Consult the Policing and Criminal Justice listing for further details. Enrolment is limited.

Program Notes

1. Eligibility to continue in Sociology in Year 2 requires a minimum 65 percent major average. Students who do not achieve the required major average may request an opportunity to upgrade their marks and be reinstated subject to departmental approval.
2. WRIT 1P93 is recommended.
3. SOCI 2P10 is recommended.
4. Students with limited experience in computer applications are advised to take APCO 1P01.
5. Sociology majors are encouraged to choose electives from other departments to broaden their academic experience. If SOCI majors register in more than one-half credit from required SOCI courses as electives, they may be deregistered.
6. SOCI 4F90 is restricted to students with a minimum 80 percent (single or combined) major average and permission of the Department Administrator.
7. SOCI 4F91 is restricted to students with a minimum 75 percent (single or combined) major average or permission of the Department Administrator.
8. Acceptable alternatives from the student's co-major may be substituted for SOCI 4F90 or 4F91 (Honours only). However, the student must take additional SOCI credits at the same level, to total eight SOCI credits for an Honours degree.

9. Courses given outside the Department may be given SOCI credit provided that they are part of an integrated program and written approval is obtained from the Department Administrator.

10. With permission of the Department Administrator, courses in related disciplines numbered 3(alpha)90 or above may be considered for SOCI credit.

11. Students with credit in PSYC 2F23 may substitute one SOCI credit numbered 1(alpha)90 or above in lieu of SOCI 2P11 and 2P13.

12. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- SOCI 1F90
- one Humanities context credit
- one Sciences context credit
- two elective credits (see program notes 3 and 4)

Year 2

- SOCI 2P10, 2P11, 2P12 and 2P13
- one SOCI credit numbered 2(alpha)00 or above
- two elective credits

Year 3

- SOCI 3P00, 3P01 and 3P12
- one and one-half SOCI credits numbered 2(alpha)90 or above
- two elective credits

Year 4

- Three SOCI credits numbered 3(alpha)90 or above (see program notes 6, 7 and 10)
- two elective credits

Pass Program

Year 1

- SOCI 1F90
- one Humanities context credit
- one Sciences context credit
- two elective credits (see program notes 3 and 4)

Year 2

- SOCI 2P11, 2P12 and 2P13
- one and one-half SOCI credits numbered 2(alpha)00 or above
- two elective credits (see program note 2)

Year 3

- SOCI 3P00 and 3P01
- two SOCI credits numbered 2(alpha)90 or above
- two elective credits

Combined Major Program

Honours

Year 1

- SOCI 1F90
- one credit from the co-major discipline
- one Humanities context credit
- one Sciences context credit
- one elective (see program notes 3 and 4)

Year 2

- SOCI 2P10, 2P11 and 2P13 (see program note 11)
- one-half SOCI credit numbered 2(alpha)00 or above
- two credits from the co-major discipline one elective credit

Year 3

- SOCI 3P00 and 3P01
- SOCI 2P12 or 3P12
- one-half SOCI credit numbered 2(alpha)90 or above
- two credits from the co-major discipline
- one elective credit (see program note 12)

Year 4

- Two SOCI credits numbered 3(alpha)90 or above (see program notes 6, 7, 8 and 10)
- two credits from the co-major discipline (see program note 9)
- one elective credit (see program note 12)

Pass

Year 1

- SOCI 1F90
- one credit from the co-major discipline
- one Humanities context credit
- one Sciences context credit
- one elective credit (see program note 3)

Year 2

- SOCI 2P11, 2P12 and 2P13
- one-half SOCI credit numbered 2(*alpha*)00 or above
- two credits from the co-major discipline
- one elective credit (see program note 2)

Year 3

- SOCI 3P00 and 3P01
- one SOCI credit numbered 2(*alpha*)90 or above
- two credits from the co-major discipline
- one elective credit

Sociology and Child and Youth Studies

Consult the Child and Youth Studies entry for a listing of the program requirements.

Sociology and Labour Studies

Consult the Labour Studies entry for a listing of the program requirements.

Certificate in Criminology

The Sociology Department offers a program leading to a Certificate in Criminology. This program provides an overview for people interested in criminology and wanting to embark on a program of part-time studies. The requirements for admission to the certificate program are the same as for admission to the degree program.

Under exceptional circumstances, the Department may require the substitution of other relevant courses for those usually required.

See "Certificate Requirements" under Academic Regulations.

The Certificate in Criminology is awarded upon completion of the following courses with a minimum 70 percent overall average:

- SOCI 1F90, 2P33, 2P61 and 2P62
- one of SOCI 2P65, 2P71, 3P46, 3P47, 3P51, 3P83
- one credit from SOCI 3P33, 3P61, 3P62, 3P63, 3P64, 3P65, 3P67, 3P68, 3P82, 3P84
- one credit from SOCI 4P33, 4P61, 4P62, 4P65, 4V80-4V84

Concentration Program

Concentration in Criminology

Combining courses from several areas provides a broad liberal arts background with specialization in three areas of criminology: criminal justice; social and moral regulation; law and society.

Students may earn a Concentration in Criminology by successfully completing the following courses together with the requirements from a BA (Honours) in Sociology:

- SOCI 1F90, 2P11, 2P33, 2P61 and 2P62
- one of SOCI 2P65, 2P71, 3P46, 3P47, 3P51, 3P83
- one and one half credits from SOCI 3P33, 3P61, 3P62, 3P63, 3P64, 3P65, 3P67, 3P68, 3P82, 3P84
- one credit from SOCI 4P33, 4P61, 4P62, 4P65, 4V80-4V84

Concentration in Critical Animal Studies

Combining courses from several areas provides a broad liberal arts background with specialization in animals and society.

Students may earn a Concentration in Critical Animal Studies by successfully completing the following courses together with the requirements for a BA (Honours) in Sociology:

- SOCI 1F90, 2P10 and 2P11
- one of SOCI 2P20, 2P33, 2P52, 2P58, 2P65, 2P71, 2P73, 2P83, 2P90, 2P96
- two credits from SOCI 2P81, 2P85, 3P47, 3P65, 3P80, 3P85, 4P65, 4P85
- one and one-half credits from SOCI 3P20, 3P33, 3P36, 3P51, 3P66, 3P70, 3P71, 4F80, 4P15, 4P47, 4P51, 4P52, 4P70, 4Q41

Concentration in Social Justice and Equity

Combining courses from several areas provides a broad liberal arts background with specialization in areas of social inequality.

Students may earn a Concentration in Social Justice and Equity by successfully completing the following courses together with the requirements for a BA (Honours) in Sociology:

- SOCI 1F90 and 2P11
- one and one half credits from SOCI 2P20, 2P22, 2P31, 2P32, 2P33, 2P34, 2P45, 2P57, 2P65, 2P71, 2P73, 2P81, 2P83, 2P85, 2P86, 2P90, 2P96, 2P99
- two credits from SOCI 3P20, 3P30, 3P33,

3P36, 3P46, 3P47, 3P51, 3P58, 3P65, 3P66, 3P70, 3P71

- one credit from SOCI 4F30, 4F40, 4F50, 4F80, 4P22, 4P31, 4P32, 4P33, 4P47, 4P51, 4P53, 4P65, 4P70, 4P85, 4Q41

Minor Program

Minor in Criminology

Students in other disciplines can obtain a Minor in Criminology within their degree program by completing the following courses with a minimum 60 percent overall average:

- SOCI 1F90, 2P33, 2P61 and 2P62
- one of SOCI 2P65, 2P71, 3P46, 3P47, 3P51, 3P83
- one credit from SOCI 3P33, 3P61, 3P62, 3P63, 3P64, 3P65, 3P82, 3P84

Minor in Critical Animal Studies

Students in other disciplines can obtain a Minor in Critical Animal Studies within their degree program by completing the following courses with a minimum 60 percent overall average:

- SOCI 1F90
- one and one half credits from SOCI 2P81, 2P85, 3P47, 3P65, 3P80, 3P85
- one and one half credits from SOCI 2P52, 2P65, 2P71, 2P73, 3P66, 3P70, 3P71

Minor in Sociology

Students in other disciplines can obtain a Minor in Sociology within their degree program by completing the following courses with a minimum 60 percent overall average:

- SOCI 1F90
- one and one half SOCI credits numbered 1(*alpha*)90 or above
- one and one half SOCI credits numbered 2(*alpha*)90 or above

Brock/Colleges Articulation Agreement

Policing and Criminal Justice-Niagara College

Consult the Policing and Criminal Justice entry for a listing of the program requirements.

Sociology and Labour Studies-George Brown College

Consult the Labour Studies entry for a listing of program requirements

Sociology and Labour Studies-Mohawk College

Consult the Labour Studies entry for a listing of program requirements

MA in Social Justice and Equity Studies

Sociology is the administrative home of the interdisciplinary MA in Social Justice and Equity Studies. This graduate program unites scholars from a variety of undergraduate units including Sociology, Geography, Women's Studies, Child and Youth Studies, History, English Language and Literature, Communications, Popular Culture and Film, Political Science, Dramatic Arts, Education, Tourism and Environment and Community Health Science. For further information see <http://www.brocku.ca/webcal/current/graduate/SJES.html>

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

SOCI 1F90

Introduction to Sociology

Major theoretical paradigms, core concepts and research methodologies. Sociological perspectives on contemporary problems in a Canadian, cross-cultural and global contexts. *Lectures, seminar, 3 hours per week.*

SOCI 1P80

Introduction to Cultural Anthropology

Major anthropological theories, concepts and methodologies. Topics may include comparative perspectives on kinship, sexuality, politics, economics, social inequality and social change. *Lectures, seminar, 3 hours per week.*

SOCI 2P10

Critical Thinking and Expression

Develop critical reading, thinking and expression skills identifying theoretical assumptions, assessing logic in arguments and evaluation of evidence. Finding sources, documentation, written expression and organizational skills in the context of article critiques, book reviews and library research papers. *Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P11

Introduction to Research Methods

Research techniques employed by sociologists and the formulation of research designs appropriate to various kinds of intellectual problems in the social sciences, including the relationship between social theory and social research, the logic of research design, fundamental techniques of data collection and ethical issues in social research. *Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P12

Qualitative and Observational Methods

Selected qualitative methods commonly used in social research, including participant observation, unobtrusive methods, case studies, interviews and historical analysis. *Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 2P11.

SOCI 2P13

Introduction to Social Statistics

Statistical reasoning and fundamental statistical techniques used to analyse social data. Handwritten mathematical calculations and computer exercises using the SPSS software package. *Lectures, seminar, lab, 3 hours per week.*

Restriction: open to SOCI (single or

combined), WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 2P11.

*** SOCI 2P20**

Sexualities and Society

(also offered as WISE 2P20)

Topics may include the structuring of sexual identities, sexuality and inequality, legal and social regulation of sexuality and social justice issues. *Lectures, seminar, 3 hours per week.*

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or WISE 1F90.

*** SOCI 2P21**

Sociology of Families

(also offered as WISE 2P21)

Family patterns including gender roles and the dynamics of family change and development. Topics include marriage and family issues, gender role socialization and change, dual careers, alternative lifestyles, gender roles in cross-cultural perspective and marital and family relationships past, present and future. *Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined), WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P38.

SOCI 2P22

Education and Equity

Contemporary issues in education in Canada and globally. Topics may include implications of globalization, teacher education, teachers and professors as workers, equity issues (gender, race, sexuality, age and class), and efforts to alter curriculum and pedagogy (critical, feminist, anti-racist.) *Lectures, seminar, 3 hours per week.*

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90.

SOCI 2P31

Problems and Possibilities in Economic Life

Topics may include the links between economic structure and social organization, ecological implications and alternative ways of organizing material life to provide for needs such as gifts, bartering, the grey market, co-operatives, mutual aid associations and democratic socialist planning. *Lectures, seminar, 3 hours per week.*

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.
Prerequisite: SOCI 1F90 or permission of the Department Administrator.

* SOCI 2P32

In and Out of Work in the Global Economy
(also offered as LABR 2P32)

Examination of paid and unpaid work in industrialized and industrializing countries. Topics may include patterns of un/under-employment, peripheral employment, home-working and worker resistance.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or LABR 1F90.

SOCI 2P33

Law and Social Justice

Examination of the complex relations between law, inequality and social change. Theoretical approaches to the sociology of law. The role of law in the differential distribution and relations of power along different points of disadvantage.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P34

Contemporary Labour Movements

(also offered as LABR 2P34)

Union controversies and issues facing the modern labour movement. Includes economic, political and sociological perspectives and may include an international comparative component.

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90 or LABR 1F90.

SOCI 2P38

Childhood, Youth and Society

(also offered as CHYS 2P38)

Historical, cross-cultural and sociological perspectives on the relationship between childhood, youth and society. Topics include children and youth in schools, communities, popular culture and state policy.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to SOCI (single or combined), CHLH, CHYS (single or combined), CHYS BA (Honours)/BED (Primary/Junior) and CHYS BA(Pass)/BED (Primary/Junior) majors until date specified in Registration guide.

Prerequisite: CHYS 1F90.

* SOCI 2P45

Sociology of African Canadians

(also offered as WISE 2P45)

Sociological perspectives and issues in the lives of African Canadians. Topics may include contemporary and historical immigration patterns; slavery; criminal justice; family; gender analysis; racism; sexual identity; labour; the civil rights movement; desegregation; Diasporan debates; and contributions in arts and science. Addresses men and women's issues equally.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or WISE 1F90.

SOCI 2P52

Socialization

Development of shared meanings of symbols and commonly accepted forms of behaviour. Sources of influence including parents, peers and television; studies of variations in patterns of socialization both within Canada and transnationally.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P54

Documentary Film

(also offered as COMM 2P54 and FILM 2P54)

History, theory, aesthetics and cultural implications of documentary film and other visual media.

Lectures, seminar, 3 hours per week; plus weekly film lab.

Prerequisite: one of SOCI 1F90, COMM 1F90, FILM 1F94 or permission of the instructor.

* SOCI 2P55

Interpersonal Communication

(also offered as COMM 2P55)

Perspectives on human communication including verbal and non-verbal communication.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), COMM majors and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or COMM 1F90.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 2P58 and RECL 3P14.

SOCI 2P57

Aging and the Life Course

Research, from a life course perspective, on aging in Canada and internationally. Topics may include cultural, social class and gender differences in aging and the impact of aging on industrialized countries.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P58

Self and Society

Relationship between the individual and social structure as revealed through everyday social interaction. Theoretical perspectives on the self, identity, group dynamics, symbols, language, emotion and the nature of reality.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

Completion of this course will replace previous assigned grade and credit obtained in SOCI (COMM) 2P55. Students will not receive earned credit for SOCI 2P58 if RECL 3P14 has been successfully completed.

SOCI 2P61

Introduction to Criminology

Historical development of major schools of criminology, the development of criminal laws. Topics may include methodological problems in the study of crime, victimization and selected types of criminal activity.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P62

The Criminal Justice System

Administration and operation of the Canadian criminal justice system. The flow of offenders through the system and the roles of police, courts and corrections in processing offenders. The degree to which the administration of justice is an interactive process. Identification of inequities in the Canadian criminal justice system.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisites: SOCI 1F90 and 2P61.

SOCI 2P65

Liberties, Rights and Protections

Theoretical and empirical issues of civil liberties and human rights in criminological perspective. Topics may include criminalization and criminal justice; security, surveillance and control; international crimes; persecution and protection.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRM and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 2P70

Popular Music and Society

(also offered as COMM 2P70, MUSI 2P70 and PCUL 2P70)

Critical approaches to popular music in its social, cultural, political and economic contexts.

Lectures, seminar, lab 4 hours per week.

Restriction: open to SOCI (single or combined), COMM, MUSI (single or combined) and PCUL majors until date specified in the Registration guide.

Prerequisite: one of SOCI 1F90, COMM 1F90, MUSI 1F10, PCUL 1F00, 1F92 or permission of the instructor.

*** SOCI 2P71**

Social Class and Social Conflict

(also offered as LABR 2P71)

Classical and contemporary approaches to the study of social class. Topics may include class relations and class conflict, elites, social mobility, poverty and social marginalization, the Canadian class structure in comparison to other industrialized nations.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR majors, CRM, SOCI and LABR minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or LABR 1F90.

*** SOCI 2P73**

Globalization, Inequality and New World Disorders

(also offered as LABR 2P73)

Global spread of capitalism, historical origins and perpetuation of underdevelopment, the destruction of traditional societies and environmental impact. Socio-economic structures and political institutions of selected Third World countries and their relationships to metropolitan, industrialized power centres.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or LABR 1F90.

*** SOCI 2P80**

Labour, Environment and Consumption

(also offered as LABR 2P80)

Topics may include global comparative consumption patterns and the relationship between labour and environmental interests.

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90 or LABR 1F90.

SOCI 2P81

Sociology of Food and Agriculture

Social and health issues related to food and food production. Topics may include the dramatic changes in the way food is produced, the risks and benefits of different forms of food produced, who produces food and the constraints they face.

Lectures, seminar, 3 hours a week.

Restriction: open to SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

*** SOCI 2P83**

Cultural Anthropology of the Contemporary World

(also offered as INTC 2P83)

Global issues emphasizing local struggles for environmental, economic and social justice.

Lectures, seminar, 3 hours per week.

Prerequisite: one of SOCI 1F90, 1P80 (2P82), INTC (INTL) 1F90.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P83.

SOCI 2P85

Animals and Human Society

Relationships between animals and human societies from various theoretical perspectives. Topics may include cultural attitudes, symbolism, social meanings, animal rights, animals as food, entertainment and models for human societies, experimentation, environmental issues and related matters.

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90.

SOCI 2P86

Women in the Economy

(also offered as CANA 2P86, ECON 2P86, LABR 2P86 and WISE 2P86)

Women in the Canadian labour market. Topics include the allocation of time between the household and the labour market, gender segregation in the work place, how earnings are determined, causes of occupational and earnings difference by gender, role of investment in education and discrimination, recent developments in the labour market and their impact on women and men, selected policy issues.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 4.0 credits.

SOCI 2P90

Women's Issues: Sexuality, Class, Ethnicity

(also offered as WISE 2P90)

Diverse theoretical perspectives on the intersecting locations of women in terms of sexuality, class, ethnicity and other expressions of social inequality. Classic feminist perspectives as applied to these issues and related social policies.

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90, WISE 1F90 or permission of the instructor.

SOCI 2P91

Directed Studies I

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: permission of the instructor.

Note: consultation is done prior to enrolment.

A written agreement is to be signed by the Chair and filed in the Department.

SOCI 2P92

Directed Studies II

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: permission of the instructor.

Note: consultation is done prior to enrolment.

A written agreement is to be signed by the Chair and filed in the Department.

SOCI 2P96

Women and Development

(also offered as INTC 2P96, LABR 2P96 and WISE 2P96)

Examination of the major social consequences of the theoretical paradigms of development (economic development, sustainable development and women/gender in development); theoretical material, practical knowledge and debates on diverse experiences of women living in the non-industrial world using feminist perspectives.

Lectures, seminar, 3 hours per week.

Prerequisite: one of SOCI 1F90, INTC (INTL) 1F90, LABR 1F90, WISE 1F90 or permission of the instructor.

SOCI 2P99

Canadian Women in a Global Context

(also offered as INTC 2P99 and WISE 2P99)

Social, political, economic and cultural issues. Topics may include rights of Aboriginal women, reproductive rights and ethics, marginalization of immigrant women, activist movements, and the impact and inadequacy of government policy.

Lectures, seminar, 3 hours per week.

Prerequisite: WISE 2P90 or permission of the instructor.

SOCI 2Q90

Mothering and Motherhood: Images, Issues and Patterns
(also offered as WISE 2Q90)

Motherhood as it is theorized/analyzed in interdisciplinary feminist scholarship and portrayed in women's fictional or autobiographical writings and art forms. The historical, socio-cultural, psychological, political and racial differences of mothering and mothering roles.

Lectures, 3 hours per week.

Prerequisite: one of SOCI 1F90, INTC (INTL) 1F90, WISE 1F90.

SOCI 2V80-2V89

Selected Topics in Sociology

Issues in sociology.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

SOCI 3P00

Introduction to Early Modern Social Theory

Central ideas of the social sciences, their intellectual origin and their change over time. The works of major social philosophers from the 18th and 19th centuries as well as classical sociological theorists.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 3P01

Contemporary Social Theory

Major contemporary perspectives of society including functionalist, Marxist, neo-Marxist, cultural, symbolic interactionist; feminist, critical race, post-structural, queer and post-colonial theories. Theoretical origins and development in historical context, their assumptions, conceptual distinctions, methodological features and ethical implications.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 3P00.

SOCI 3P12

Applied Quantitative Data Analysis

Advanced quantitative methods of data analysis focusing on the development and application of technical skills, including data processing, accessing public information systems, multivariate analysis and advanced regression

techniques.

Lectures, lab, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisites: SOCI 1F90, 2P11 and 2P13.

SOCI 3P14

Media Industries

(also offered as COMM 3P14 and PCUL 3P14)

Media industries emphasizing Canadian media production in its economic, political and technological environments.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), COMM (single or combined) and PCUL (single or combined) majors with a minimum of 8.0 overall credits.

Prerequisite: SOCI 2P12 or COMM 2P20.

* SOCI 3P20

Queer Communities and Popular Culture
(also offered as WISE 3P20)

Growth of queer communities and their influence on popular print, audio and visual media. Topics include gay, lesbian, bisexual, two-spirited and transgendered (glbt) influence on contributions to a wide range of culture including film, fashion, sport, theatre and cyberspace.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined) majors, and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or WISE 1F90.

* SOCI 3P26

Medical Sociology

(also offered as CHSC 3P26)

Social factors associated with physical health, illness and impairments; health care delivery systems and the factors which influence their utilization.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), CHSC majors and SOCI minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

* SOCI 3P27

Psychiatric Sociology

(also offered as CHSC 3P27)

Social factors associated with psychiatric illness; increased utilization of social science theory and research in the field of psychiatry.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), CHSC majors and SOCI minors until date specified in Registration guide.

Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

* SOCI 3P30

Women, Work and Family

(also offered as LABR 3P30 and WISE 3P30)
Examination of the transformation of women's paid labour force involvement and evaluation of personal and public strategies to address the work/family conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR, WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00, LABR 1F90.

Note: SOCI 2P32 recommended.

SOCI 3P31

Complex Organizations

(also offered as LABR 3P31)

Research on the nature of complex organizations using theories such as those of the French Regulation school. Formal and informal aspects of organizational roles; how morale, motivation, work discipline and conflict are regulated, feminist critiques of the traditional literature.

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90, or LABR 1F90.

SOCI 3P33

Law and Social Regulation

Legal, administrative and moral regulation of deviant, risky or populations perceived as undesirable and the production of desirable citizens.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisites: SOCI 1F90 and 2P33.

* SOCI 3P34

Information Technology and Work

(also offered as LABR 3P34)

Application of information technology to the labour process. Topics include the relationship of this technology to the number and types of jobs available, to the total hours worked over a lifetime and to the increased importance given to education and work.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or LABR 1F90.

SOCI 3P36

Critical Issues in Contemporary Society

Social problems in advanced industrial societies and Canada in particular. Focus on social problems stemming from economic and political crises. Topics may include unemployment, regionalism, ethnic/racial conflict, sovereignty, nationalism, concentrated economic power, and state and market. Proposed strategies of remedial social change.

Lectures, seminar, 3 hours per week.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

SOCI 3P44

Gender and Sexuality in Childhood and Youth

(also offered as CHYS 3P44 and WISE 3P44) Historical, cross-cultural and sociological approaches to the development of gender identities and sexuality amongst children and youth. Topics include the role of families, schools, peers and state policies.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), CHYS (single or combined), CHYS BA (Honours)/BED (Primary/Junior), CHYS BA (Pass)/BED and WISE (single or combined) majors, WISE and SOCI minors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: one of SOCI 2P11 and 2P13, CHYS 2P38, WISE 2P90, 2P91.

* SOCI 3P46

Aboriginal Peoples in Canadian and Global Perspectives

(also offered as ABST 3P46)

Contemporary struggles for cultural survival, land, self-determination and rights in the context of colonialism in Canada and globally. Diversity of indigenous peoples, including their internal debates and divides. Indigenous perspectives.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

SOCI 3P47

Racism and Anti-Racism

Topics may include theoretical, historical and comparative perspectives on the structuring of racial and ethnic identities, ethnic and racial privilege and oppression and anti-racist struggles.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

* SOCI 3P51

Gender and Society

(also offered as WISE 3P51)

Gender as an organizing principle in society. The social construction of masculinity and femininity from historical and cross-cultural perspectives. Gender in principal institutions of Canadian society: economy, state, family, education and military. Issues include men and women in non-traditional occupations, women in the military, gender and power.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined) majors, CRMR, SOCI and WISE minors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00.

SOCI 3P54

Issues in Documentary Film

(also offered as COMM 3P54 and FILM 3P54)

Advanced studies in selected aspects of documentary film and other visual media.

Lectures, seminar, 3 hours per week; plus weekly film lab.

Prerequisite: SOCI 2P54.

* SOCI 3P55

Sociology of Professional Wrestling

(also offered as SPMA 3P55)

Comprehensive and critical analysis of pro wrestling as cultural phenomenon. Topics to be covered include the history of pro wrestling; the organization of pro wrestling - national and international comparisons; occupational recruitment and retention; the business of pro wrestling multi-media complex.

Lecture, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and SPMA majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or SPMA 1P91 and 1P92.

* SOCI 3P58

Women and Aging

(also offered as WISE 3P58)

Examination of women's socially constructed experience of aging in Canada and internationally. Topics may include older women and poverty, aging women and the paid labor force, agism and women, violence against older women, older women and disability.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00.

Note: SOCI 2P57 recommended.

SOCI 3P61

Sociology of Punishment

Major sociological approaches to punishment in modern society. Critical assessment of the structure and policies of Canadian correctional institutions. Sentencing, rehabilitation, prisoners' rights, special populations, subcultures, penal reform, pre-trial detention and community sanctions (probation, fines, community service and parole).

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 2P61.

SOCI 3P62

Youth Justice System

Critical assessment of the youth justice system and the philosophy underlying separate treatment.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisites: SOCI 1F90, 2P61 and 2P62.

SOCI 3P63

Crime, Surveillance and Security

Critical exploration of contemporary efforts to prevent crime, produce order and enhance security through decentralized and proactive initiatives. Conceptions of risk, order and disorder, community and security through examination of topics that may include gated communities, crime stoppers, community policing, urban planning and design, private policing, regulation of public space and surveillance technologies.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 2P61 or 2P62.

SOCI 3P64

Policing Society

Examination of the nature, structure and roles of policing in society emphasizing history of policing in Canada, and its public and private forms. Key legal, social and political issues relating to policing and law enforcement. Topics may include accountability, discretion, police powers, decentralization, private policing, policing protests and global policing.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 2P61 or 2P62.

SOCI 3P65

Animals and the Law

Overview of the legal status of animals and how this affects their treatment. Topics may include animal rights and animal welfare, anti-cruelty legislation, regulations and standards concerning use of animals in agriculture, biotechnology, entertainment and vivisection.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

* SOCI 3P66

Social Movements

(also offered as LABR 3P66)

Survey of the impact of ideology on behaviour and the subsequent development of social movements or specific examinations of particular movements such as separatism, nationalism, fascism, Marxism or feminism.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90, LABR 1F90 or permission of the Department Administrator.

SOCI 3P67

Crime and the Media

Media construction of crime and the implications for criminal justice policies.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisites: SOCI 1F90 and 2P61.

SOCI 3P68

Gang Violence

Street gangs and gang violence in North America. Topics may include theories of gang formation, the social construction of gang problems, the cultural diffusion of gang activities, gang typologies and subculture, and policing gang violence.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisites: SOCI 2P61 and 2P62.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4V80.

SOCI 3P70

Social Justice Research

Exploration of social justice issues through a critical reading of original case studies including theoretical perspective, methodological approach, findings and implications.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined)

majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 3P71

The State and Society

The state as a social, economic, political and ideological institution emphasizing Canada. Topics may include theories of the state (such as Marxist, liberal and feminist); welfare and post-welfare state theory; state power in a global context; and selected case studies of states, public policy and social justice.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the Department Administrator.

SOCI 3P73

Popular Music and Youth Culture

(also offered as COMM 3P73, MUSI 3P73 and PCUL 3P73)

Cultural relationship between young people and popular music. Topics include music's role in the formation of identity, the connection between musical taste and various forms of youth fashion or style, and the impact of new technologies on the ways in which young people access music.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single and combined), COMM, MUSI (single and combined) and PCUL majors with a minimum of 8.0 overall credits or permission of the instructor.

* SOCI 3P80

Environmental Justice

(also offered as WISE 3P80)

Historical review of relationships between environment and human societies from various theoretical perspectives. Inequalities and social justice struggles. Topics may include sustainability, biodiversity, eco-tourism, population, consumerism, environmental management.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or WISE 1F90.

* SOCI 3P82

Women and Crime

(also offered as WISE 3P82)

feminist criminological theory and selected topics on crime, prisons and the Canadian criminal justice system as they pertain to women. Topics may include women's crime rates, violence by and against women, prostitution, drug use, "girl gangs," women's

prisons, women police officers, women in the security sector, women and terrorism, and Domestic Violence Courts.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), WISE (single or combined), majors, CRMR, SOCI and WISE minors until date specified in Registration guide.

Prerequisite: one of SOCI 2P61 WISE 1F90, 2P00.

* SOCI 3P83

Family Conflict and Violence

(also offered as CHYS 3P83)

Conflict within modern family relationships. Considerations include contemporary research on spousal violence, power and decision-making, sexual abuse and child abuse. Socio-historical factors that contribute to increased family stress. Institutional and interpersonal strategies for reducing family conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior) CHYS BA (Pass)/BEd (Primary/Junior) majors, CRMR and SOCI minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90.

SOCI 3P84

Victimology

Victims of crime and factors connected to the victim, including a historical perspective on the study of victimology, theories related to the explanation of victimization, the modern evolution of victim rights, provincial, federal and international legislation related to victims, and the development of victim services.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: SOCI 2P61 or 2P62.

SOCI 3P85

Animals in Cross-Cultural Perspective

Human relationships with animals in various cultures. Topics may include utilitarian, economic, symbolic and emotional relationships with animals, Ethnographic case studies.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: SOCI 1F90.

SOCI 3P90

Directed Studies III

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: permission of the instructor.
Note: topics must be chosen in consultation with a faculty member prior to enrolment. A written agreement is to be signed by the Chair and filed in the Department.

SOCI 3P91

Directed Studies IV

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: permission of the instructor.

Note: topics must be chosen in consultation with a faculty member prior to enrolment. A written agreement is to be signed by the Chair and filed in the Department.

SOCI 3P92

Advanced Seminar in Eco-Feminism

(also offered as WISE 3P92)

Local, national and/or global processes relating to struggles for equality and environmental crises from a social science perspective.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00.

Completion of this course will replace previous assigned grade and credit obtained in SOCI/ WISE 3V98.

SOCI 3V10-3V19

Selected Research Topics

Selected methodological issues in sociology.

Lectures, lab, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

SOCI 3V80-3V99

Selected Topics in Sociology

Selected issues in sociology

Lectures, seminar 3 hours per week.

SOCI 4F01

Honours Seminar

Examination and assessment of problems in research.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors with a minimum 80 percent major average and approval to year 4 (honours) or permission of the Department.

Prerequisites: SOCI 3P01 and 3P12.

* SOCI 4F30

Work and Restructuring

(also offered as LABR 4F30)

Selected issues related to the organization of work, social class, the workforce and unions.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or

combined), LABR and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of SOCI2P32, 2P86, 3P30.

Completion of this course will replace previous assigned grade and credit obtained in SOCI (LABR/WISE) 4P32.

SOCI 4F40

Structuring of Racial Privilege

Selected issues related to the structuring of racial and ethnic privilege.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 3P47.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4P47.

* SOCI 4F50

Structuring of Gender Privilege

(also offered as WISE 4F50)

Selected issues related to the restructuring of gender privilege.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year (honours). Prerequisite: SOCI 2P90 or 3P51.

Completion of this course will replace previous assigned grade and credit obtained in SOCI (WISE) 4P51.

SOCI 4F80

Critical Animal Studies

Selected issues related to the interaction between animals and human Society.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 2P85 or 3P85.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4P85.

SOCI 4F90

Honours Thesis

Students electing this option will be required to undertake an independent research project under the supervision of a member of the department.

Restriction: open to SOCI (single or combined) majors with a minimum 80 percent major average, approval to year 4 (honours) and permission of the Department Administrator. Prerequisites: SOCI 3P01 and 3P12.

Note: the results of the project will be presented as a thesis. Students are required to submit a

detailed (one page minimum) letter of intent by March 31. For more information contact the Department Administrator.

SOCI 4F91

Honours Practicum

Student electing this option typically will serve as a research associate with a local social service agency. Exact nature of projects will vary with the agency; however, the faculty director, agency supervisor and student will negotiate a mutually acceptable set of expectations.

Restriction: open to SOCI (single or combined) majors with a minimum 75 percent major average and approval to year 4 (honours) or permission of the Department Administrator.

Prerequisites: SOCI 3P01 and 3P12.

SOCI 4P02

Selected Topics in Social Theory

Selected topics in early or late modern theory and theoretical sociology. In-depth explorations of specific theoretical paradigms, philosophies of social science, theoretical research programs, or comparative analysis of alternative or contending theoretical strategies or projects.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: SOCI 3P00 and 3P01.

SOCI 4P10

Advanced Topics in Quantitative Analysis

Topics may include an introduction to ANOVA, multiple regression, regression diagnostics, surveys, structural equation modelling and various computer software programs.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 3P12 or permission of the Administrator.

* SOCI 4P11

Critical Approaches to Applied Social Research Design

(also offered as GEOG 4P11 and POLI 4P11) Application of social science skills in community and public-sector settings, including various qualitative and quantitative research strategies to empower communities and inform social policy development. Includes evaluation of a community agency or social program of choice.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors, GEOG (single or combined) majors, GEOG (Honours)/BEd majors, and POLS (single or combined) majors until date specified in Registration guide. Students must hold a

minimum of 10.0 overall credits.
Prerequisite: one of SOCI 2P11, GEOG 2P10, 2P12, POLI 2P80 or permission of the Department Administrator.

**SOCI 4P15
Advanced Critical Analysis**

Focus on the particular research project of the instructor. Topics include research design, critical literature review, theoretical assumptions, data collection, evidence, analysis and implications.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

*** SOCI 4P22**

Education and Equity
(also offered as WISE 4P22)

Selected issues in education in Canada and globally. Topics may include access, representation, experience, and careers of students, teachers and faculty; student cultures; student supervision; efforts to alter pedagogy and curriculum; and implications of globalization.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Note: SOCI 2P22 recommended.

SOCI 4P23

Research on Media and Popular Culture
(also offered as COMM 4P23 and PCUL 4P23)

Advanced research seminar on the relations between mass media and popular culture.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), COMM (single or combined) or PCUL (single or combined) majors with approval to year 4 (honours) or permission of the instructor

Prerequisite: SOCI 3P14, COMM 3P15 or permission of the instructor.

*** SOCI 4P26**

Sociology of Health
(also offered as CHSC 4P26)

Selected social policy issues in medical sociology, psychiatric sociology or related subdisciplines. Topics may include the politics of individualizing health problems, clinical sociology and related topics.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and CHSC majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Note: SOCI 3P26 or 3P27 recommended.

SOCI 4P31

Women, Work and Unions

(also offered as LABR 4P31 and WISE 4P31)
Theoretical and research developments concerning women's paid and unpaid work. Topics may include union activism, collective bargaining priorities and related government policies.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of SOCI 1F90, LABR 1F90 WISE 1F90.

*** SOCI 4P32**

Sociology of Work

(also offered as LABR 4P32 and WISE 4P32)
Theoretical and research developments in the sociology of work. Topics may include the impact of technological innovation on the labour process, reconceptualizations of work and leisure, changes in the gendered nature of work, the role of the contemporary labour movement and international perspectives on labour and the labour force.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or LABR credits or permission of the Department Administrator.
Note: SOCI 2P32 recommended.

Completion of this course will replace previous assigned grade and credit obtained in SOCI (LABR/WISE) 4F30.

SOCI 4P33

Law and Society

Specific relationships between Canada's legal institutions and social structure and institutions; law and Aboriginal peoples, family and gender issues, environment, work and technology, feminist critique of legal theory and practice.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 3P33.

SOCI 4P38

Issues in Childhood, Youth and Society

(also offered as CHYS 4P38)

Canadian and international research on childhood and youth in changing societies. Topics include the globalization of childhood and youth, child labour, child welfare and Canadian policy.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to SOCI (single or combined), CHYS (single or combined) and CHYS BA (Honours)/BEd (Primary/Junior) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisites: CHYS 2P38; one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P94, SOCI 3P36, 3P70.

SOCI 4P47

Racism and Anti-Racism

Topics may include current theoretical perspectives on racism, ethnicity and anti-racism; Canadian and global perspectives on the articulation of racism with other forms of privilege and inequality; and anti-racist struggles for social justice and equity.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 1F90.

Note: SOCI 3P47 recommended.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4F40.

*** SOCI 4P51**

Gender and Society

(also offered as WISE 4P51)

Selected issues in gender and society. Topics may include feminist theories, work, family, state, popular culture, race, militarism and violence.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or WISE credits or permission of the Department Administrator.
Note: SOCI 3P51 recommended.

Completion of this course will replace previous assigned grade and credit obtained in SOCI (WISE) 4F50.

SOCI 4P52

Sociology of Knowledge

Knowledge as a social product; the cultural and temporal variations in knowledge as causal and as limiting factors in human behaviour.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI credits or permission of the Department Administrator.

Note: SOCI 3P00 or 3P01 recommended.

* SOCI 4P53

Masculinities, Culture and Economy

(also offered as LABR 4P53 and WISE 4P53)
Theoretical and empirical issues in the study of relationships between masculinities and cultural and economic processes and structures. May include ethnicity, racialization, sexuality, nationalism, popular culture, leisure, changes in work and the labour market, class formation, and regional identity.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI credits or permission of the Department Administrator.

SOCI 4P61

Criminal Justice

Topics may include critical perspectives on law and social control, feminist perspectives on law and criminology and the politics of law and criminal justice.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: SOCI 2P61 and 2P62.

SOCI 4P62

Social and Moral Regulation

Topics may include critical theoretical perspectives on deviance, moral regulation and the politics of social control.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: SOCI 2P33 and 2P61.

SOCI 4P65

Animals and the Law

Topics may include ideas of justice, animal protection, animal abuse and violence, commodification and property status of animals, legal rights for animals, wildlife trade, endangered species, international laws.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Note: SOCI 3P65 recommended.

SOCI 4P70

Social Issues in the Community

Organizational responses, resistance strategies, constraints on social action and policy alternatives.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

SOCI 4P81

Selected Issues in Criminology

Comparative sociological perspectives on issues in criminology.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: SOCI 2P61 and 2P62.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4V81.

SOCI 4P85

Animals and Human Societies

Sociology of animal-human interaction. Topics may include exploration of animal-human bonds and boundaries; theoretical arguments on the nature of animal rights; ethical treatment of animals; animals and the law; representation of animals; and cultural meanings of animals.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Note: SOCI 2P85 recommended.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4F80.

SOCI 4P87

Social Inequality

Advanced study of social inequality and social class in a comparative perspective.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4V87.

SOCI 4P88

Social Problems

Advanced study of social problems using various social research methodologies.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4V10.

SOCI 4P89

Controversies in Sociology

Advanced study of controversies in Sociology emphasizing issues in the 21st century. Topics may include racism, gender, social class and sexuality.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4V85.

SOCI 4P90

Directed Studies V

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: open to SOCI (single or combined) majors with approval to year 4 (honours) and permission of the instructor.

Note: consultation is done prior to enrolment. A written agreement is signed by the Chair and filed in the Department.

SOCI 4P91

Directed Studies VI

Topic, readings and methods of evaluation chosen in consultation with a faculty member willing to supervise the student.

Restriction: open to SOCI (single or combined) majors with approval to year 4 (honours) and permission of the instructor.

Note: consultation is done prior to enrolment. A written agreement is signed by the Chair and filed in the Department.

* SOCI 4Q41

Social Policy

(also offered as WISE 4Q41)

Canadian and international social policy issues. Topics may include aboriginal peoples, women and public policy, labour relations, health care delivery, multiculturalism, Canadian federalism, family policy.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 1F90, WISE 1F90 or permission of the instructor.

SOCI 4V10-4V19

Selected Research Topics

Selected methodological issues in sociology.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

SOCI 4V80-4V89

Special Topics in Sociology

Selected issues in sociology. Course content will vary, depending upon the interests of instructors and students.

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Spanish

This program is offered through the Department of Modern Languages, Literatures and Cultures

Chair

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Academic Adviser

Liz Kaethler

General Information

Administrative Assistant

Cora Solway

905-688-5550, extension 3312

Mackenzie Chown A240

<http://www.brocku.ca/modernlanguages/index.html>

The Department aims to provide students with a thorough and comprehensive knowledge of spoken and written Spanish, its literatures, linguistics and cultures. In addition to the courses taught in the target language, the Spanish program offers courses in culture, film, Latin American gender taught in English that are acceptable for credit toward a Spanish degree. Students are encouraged to participate a study program in Latin America or Spain.

Third-year Abroad

Students have the opportunity to study during their third year at a Spanish-speaking University. In addition to studying Spanish language, literature and culture, students may also take courses in Business, the Humanities, the Social Sciences and other areas. Students must apply in their second year and have credit in SPAN 1F90 or 1F91.

Study in Latin America and Spain

Students should consult with the Department about other opportunities for intensive study abroad courses at different levels in Spain (Alcalá de Henares) or Latin America.

One-Month Study Abroad

This program offers students an opportunity to study for a month in the summer in Latin America or Spain. Students must consult with the Department prior to registration to determine the location.

Participants may earn a credit in Spanish language from beginner to advanced as appropriate as well as one-half credit from SPAN 2V90-2V99.

Program Notes

1. Students with two or more years of high school Spanish standing or previous university Spanish credit take SPAN 1F90, and may not take SPAN 1F00 without permission of the Department. Permission is granted only in the most exceptional cases. Advanced heritage speakers take SPAN 1F91.
2. Students without two or more years of high school Spanish or equivalent in the language take SPAN 1F00.
3. SPAN 1F00 is an introductory language course. Students who register in this course must submit an official high school transcript to the instructor as proof of their level of competence in order to receive Departmental confirmation of registration before the end of the second week of classes (see Undergraduate Academic Calendar). Failure to do so will result in deregistration from the course.
4. Unless otherwise noted in the course description, courses numbered 2(alpha)00 and above are taught in the language, while courses numbered 1F90 and below are taught in the language to the extent possible.
5. SPAN 1F00 may be taken for degree credit, but cannot be used to meet requirements for major programs in Spanish. However, SPAN 1F00 may be included in a minor program in Spanish.
6. SPAN 1F00, 1F90, 2P18, 2P19 and 2P20 constitute a sequence. Once credit has been obtained in one of these courses, students are not allowed to take for credit a course in the language with a lower number in the sequence. Students may not take two courses at different levels in the sequence during the same term. This regulation also applies to courses taken at other institutions.
7. Departmental courses noted as given in English may be included in major programs. Single Honours programs may include no more than two and one-half credits in such courses; single Pass programs may include no more than one and one-half credits in such courses; combined Pass programs may include no more than one credit in such courses. Combined Honours programs may include no more than one and one-half credits in such courses. If both combined Honours programs are chosen, from French, Italian or Spanish, one and one-half credits in each language is allowed.

8. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

In order to complete the single Honours program in Spanish in the normal four year period, students must supplement courses from other institutions in Canada, or preferably from a study abroad program in a Spanish-speaking country. Another option is to complete the program on a part-time basis.

Year 1

- SPAN 1F90 or 1F91(see program note 1)
- one Sciences context credit
- one Social Sciences context credit
- two elective credits

Year 2

- SPAN 2P18 or 2P19
- SPAN 2P20
- one and one-half SPAN or MLLC credits
- numbered 2(alpha)00 or above (see program note 7)
- two and one-half elective credits

Year 3

- Three and one-half SPAN or MLLC credits
- numbered 2(alpha)90 or above (see program note 7)
- one and one-half elective credits

Year 4

- One SPAN or MLLC credit numbered 2(alpha)90 or above (see program note 7)
- three SPAN or MLLC credits numbered 3(alpha)90 or above (see program note 7)
- one elective credit

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Students may take a combined major in Spanish and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all departments/centres provide a combined major option.

Honours

Year 1

- SPAN 1F90 or 1F91 (see program note 1)
- one credit from the co-major discipline
- one Sciences context credit
- one Social Sciences context credit
- one elective credit

Year 2

- SPAN 2P18 or 2P19
- SPAN 2P20
- one SPAN or MLLC credit numbered 2(alpha)00 or above (see program note 7)
- two credits from the co-major discipline
- one elective credit

Year 3

- Two and one-half SPAN or MLLC credits numbered 2(alpha)90 or above (see program note 7)
- two credits from the co-major discipline
- one-half elective credit

Year 4

- Two and one-half SPAN or MLLC credits numbered 3(alpha)90 or above (see program note 7)
- two credits from the co-major discipline
- one-half elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Minor in Spanish

Students in other disciplines may obtain a Minor in Spanish within their degree program by completing the following courses with a minimum 60 percent average:

- SPAN 1F90 or 1F91
 - SPAN 2P18 or 2P19
 - SPAN 2P20
 - one SPAN credit (see program notes 5 and 8)
 - one SPAN literature and/or culture credit numbered 2(alpha)00 or above (see program note 8)
-

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

SPAN 1F00

Introductory Spanish

Elements of Spanish grammar. Oral, written and reading practice. Selected readings and multimedia materials.

Lectures, 3 hours per week.

Note: for students with no background in the language.

SPAN 1F90

Intermediate Spanish

Composition and oral practice. Review of Spanish grammar. Introduction to Spanish literature, Latin American and Peninsular culture and topics of current interest.

Lectures, 4 hours per week.

Prerequisite: one Spanish credit, two or more years of high school Spanish or permission of the Department.

Note: students with advanced standing or near native ability must take SPAN 1F91.

SPAN 1F91

Spanish for Heritage Speakers

Grammar and sentence structure, spelling and punctuation, interference between English and Spanish, and colloquial versus formal usages.

Lectures, 4 hours per week.

Note: for students with an advanced level of oral proficiency or near native ability yet no previous formal study of Spanish.

* SPAN 1P95

Conquest and Colonization

(also offered as PORT 1P95 and INTC 1P95) Creation of a new culture founded on Amerindian, Iberian and African traditions; visual arts, architecture, literature and music; disparity between cultural identity and economic and political identity, utopian ideals, alienation through imitation, rediscovery of autochthonous cultural models.

Lectures, 3 hours per week.

Note: given in English.

* SPAN 2P10

Latin American Cultures Since Independence (also offered as INTC 2P10 and PORT 2P10) Social, political and cultural history of the Latin American nations through text and images. Topics include cultural hybridization and identity.

Lectures, 3 hours per week.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P10.

* SPAN 2P11

Iberian Culture

(also offered as INTC 2P11 and PORT 2P11) Social, political and cultural history of Portugal and Spain through historical and literary texts, film and other visual arts.

Lectures, 3 hours per week.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in INTL 2P11.

SPAN 2P18

Grammar and Conversation

Grammar review with emphasis on further development of oral and listening comprehension skills.

Prerequisite: SPAN 1F90, 1F91 or permission of the instructor.

Note: SPAN 2P18 and 2P19 constitute a sequence. Students are encouraged to take both courses.

SPAN 2P19

Grammar and Composition

Grammar review with emphasis on further development of writing and reading skills.

Lectures, 3 hours per week.

Prerequisite: SPAN 1F90, 1F91 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in SPAN 2P21.

SPAN 2P20

Analysis and Approaches to Literary Texts

Introduction to research methods applied to Hispanic literature, terminology, critical theory and general historical survey of genres in Hispanic literature. Practical skills of criticism.

Lectures, 3 hours per week.

Prerequisite: SPAN 2P19 or permission of the instructor.

* SPAN 2P82

Latin American and Iberian Film

(also offered as PORT 2P82)

Spanish and Latin American representations of identity crises involving issues of nationality, ethnicity, gender, religion and politics. Pastiche, parody and camp aesthetics, and the envisioning of new possibilities of solidarity leading to social transformations.

Lectures, 3 hours per week; plus weekly film lab.

Prerequisite: SPAN 1F90, 1F91 or permission of the instructor.

Note: Spanish and Portuguese language films with English subtitles. Given in English.

SPAN 2P90

Race and Ethnicity in Modern Latin American Narrative

How race and ethnicity have shaped Latin American societies and cultures in the 20th century. Topics include interactions of Iberian, European, Native and African peoples; official and unofficial management of multiethnic and multicultural societies. Authors may include Carpentier, Freyre and Ferré.

Lectures, 3 hours per week.

Prerequisite: SPAN 1F90, 1F91 or permission of instructor.

* SPAN 2P93

Hispanic Theatre in Translation

(also offered as DART 2P93)

Introduction to Hispanic dramatic literature and performative culture from Spain and Latin America. Discussion of social and cultural background of each play; play analysis; creative and critical thinking.

Lectures 3 hours per week.

Prerequisite: one of SPAN 1F90, 1F91, DART 1F93, 1F95, DART 1P97 and 1P99 (1F99).

Note: the assignments are designed to adapt to the student's major. Given in English.

SPAN 2V90-2V99

Culture in Spanish-Speaking Regions

Culture of a country or region in its geographical context. Background preparation

research preceding an intensive study period on location.

Restriction: permission of the Department.

Note: students are expected to pay their own expenses.

* SPAN 3P94

Iberian Narrative

(also offered as PORT 3P94)

Themes and narrative techniques that characterize the works of major 20th-century authors as well as contemporary Spanish and Portuguese authors.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 3P95

Contemporary Latin American Narrative

Multidisciplinary approach (historical, sociological, psychological, mythical) to the study of texts from different cultures and genres.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 3P97

Modern Spanish Literature and Culture

Crises of national identity in poetry and narrative; literary theories dealing with genre, conventions of romanticism, naturalism, realism in context of Iberian culture.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 3P98

Chronicle and Testimonial Writing

Historiography, collective memory versus official history, relation of past to future, oral history and its transcription into testimonial literature.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 3P99

Hispanic Linguistics

Overview of major trends and issues in Hispanic linguistics. Topics may include language variation and change, language contact, dialectology, sociolinguistics, text linguistics. Issues of research methodology for the various areas.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 3Q90

Early Modern Spanish Literature and Culture

Themes and trends in 16th- and 17th-century Spanish drama, prose and poetry; evolution of a national theatre, picaresque, and birth of the

modern novel. Film adaptations of key texts to aid comprehension and to consider performative culture.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 3Q92

Grammatical Structures: Theory and Practice

Systematic study of complex grammatical structures. Syntactic analysis and principles. Concepts of semantics and style.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

* SPAN 4P01

Latin American Women's Perspectives

(also offered as WISE 4P01)

Cultural production of Latin American women and their impact on society; wide selection of media including testimonial writing, oral history, narrative, drama, poetry, visual arts, music. Innovations in popular and literary culture allowing women to rearticulate relationships of power.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21); SPAN 2P20, WISE 1F90 or permission of the instructor.

Note: given in English.

SPAN 4P04

Translation: Applications

Lexical, morphological, syntactic and semantic interrelationships between source text and target text; application of translation methodologies to a variety of texts.

Lectures, 3 hours per week.

Prerequisites: SPAN 3Q92 and MLLC 3P94 or permission of the instructor.

SPAN 4P10

Readings in Medieval Iberian Narrative

(also offered as PORT 4P10)

Development of narrative traditions through the early fifteenth century and their historical contexts.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 4P15

Imagining Identity in the Early Modern Hispanic World

Religious, political and cultural discourses employed in the construction of identities in the Hispanic world. May include gendered identities, definitions of Spanish Christian identity, Creole identities and "counter-identities", such as Converso, Morisco and Mestizo.

Lectures, 3 hours per week.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor.

SPAN 4V60-4V69

Special Research Topics in Spanish Literature
Course content will vary, depending upon the interests of instructors and students.

Lectures, 3 hours per week.

Prerequisites: two SPAN credits numbered 3(alpha)00 or above.

SPAN 4V62

2009-2010: Cervantes and Don Quixote

Cervantes' influential Don Quixote in the context of early modern Spanish literary and cultural production.

Prerequisites: SPAN 2P19 (2P21) and 2P20 or permission of the instructor

Lectures, 3 hours per week.

Sport Management

Chair

Joanne MacLean

Associate Professors

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Lisa M. Kikulis, Joanne MacLean, Julie Stevens,
Lucie Thibault

Assistant Professors

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The Department of Sport Management offers a four-year program leading to a Bachelor of Sport Management (BSM). The requirement for graduation with a BSM (Honours) is a minimum 70 percent major average and a minimum 60 percent non-major average. The requirement for graduation with a BSM is a minimum 60 percent major average and a minimum 60 percent overall average.

The program is designed to meet the needs of a rapidly expanding sport industry and incorporate fieldwork experiences for students.

Students will be prepared for sport management career opportunities that include marketing, public relations, promotions, communications, human resources and financial, facility and event management in a variety of public, commercial and non-profit organizations.

Re-admission and Transfer Eligibility

The application form for re-admission or for transfer into the BSM program (Request to *Declare or Change Majors*) is available on the web at <http://www.brocku.ca/registrar/forms/index> or at the Registrar's Office. The Request to *Declare or Change Majors* form to transfer into the BSM must be completed and returned to the Office of the Registrar by May 1. The BSM is a limited enrolment program. Admission is not guaranteed by attainment of the minimum requirements outlined below.

To be eligible for re-admission, or for transfer from another program, to the BSM program, a student must meet all of the following requirements:

Completion of SPMA 1P91, 1P92, MGMT 1P51 and 1P52 with a minimum 60 percent in each.

A minimum 65 percent average overall in all SPMA major courses taken to date, (including the above courses and any upper year SPMA courses) which would be included in the calculation of the BSM major average.

A minimum 60 percent overall average.

Program Notes

1. A minimum 60 percent in each of SPMA 1P91, 1P92, MGMT 1P51 and 1P52, a minimum 60 percent major average and a minimum 60 percent overall average are required to continue as a major in Sport Management.

2. All students must take 3 context credits: one Humanities context credit, one Sciences context credit and one Social Sciences context credit. Two credits must be used to satisfy context requirements by the end of year 2 and the third context credit must be completed no later than the end of year 3.

3. Students may choose to take WRIT 1P93 or 1P94 in year 2. If students choose this option then an additional one-half elective credit must be taken in year 1. Students may choose to take ENTR 2P51 in year 3. If students choose this option, then an additional one-half elective credit must be taken in year 2.

4. SPMA majors must take a minimum of two non-SPMA elective credits (excluding cross-listed and context courses).

5. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Sport Management

Year 1

•SPMA 1P91 and 1P92

•MGMT 1P51 and 1P52
•WRIT 1P93 or 1P94 (see program note 3)
•two and one-half elective credits (see program notes 2 and 4)

Year 2

•SPMA 2P05, 2P06, 2P07, 2P21, 2P27 and 2P96
•ENTR 2P51 (see program note 3)
•one and one-half elective credits (see program notes 2, 3 and 4)

Year 3

•SPMA 3P08, 3P21, 3P27 and 3P65
•SPMA 3P07 or 3P17
•two and one-half elective credits (see program notes 2 and 4)

Year 4

•Three SPMA credits numbered 4(alpha)00 or above
•two elective credits (see program note 4)

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

SPMA 1P91

Introduction to Sport Management

Micro aspects of management applied to sport, including human resources, sport marketing, sponsorship, finance, event management, sport law, and related issues.

Lectures, seminar, 3 hours per week, plus field experience.

Restriction: open to SPMA majors until date specified in Registration guide. Not open to BBA and BAcc majors.

Note: a field experience fee may be charged; consult the Department.

Completion of this course will replace previous assigned grade and obtained credit in PEKN 2P01.

SPMA 1P92

Understanding Sport Industry Sectors

Macro aspects of the sport industry, including key actors, governance, funding, current research and industry trends in public, commercial, and non-profit sectors.

Lectures, seminar, 3 hours per week, plus field experience.

Restriction: open to SPMA majors until date specified in Registration guide.

Note: a field experience fee may be charged; consult the Department.

Completion of this course will replace previous assigned grade and obtained credit in PEKN 2P01.

SPMA 2P00

Professional Sport in North America

Topics may include ownership, league operations, role of media, labour/management relationships, and commercial sport industry.

Lectures, 3 hours per week.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Note: a field experience fee may be charged; consult the Department.

SPMA 2P05

Management Concepts in Sport Organizations

Organizational theory related to sport organizations; topics may include organizational structure, strategy, technology, power, and politics.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Not open to BBA and BAcc majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Completion of this course will replace previous assigned grade and credit obtained in OBHR 2P51 and 2P52.

SPMA 2P06

Sport Policy

Sport policy within the Canadian sport system. Topics include government involvement in sport and policy issues.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

SPMA 2P07

Research Design and Evaluation

Issues concerning the construction, administration, and evaluation of data collection as well as the processing and analysis of data.

Lectures, lab, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Completion of this course will replace previous assigned grade and obtained credit in PEKN 2P08 and RECL 2P07.

SPMA 2P09

Labour Relations in Professional Sports (also offered as LABR 2P09)

Economic, political and social impacts of labour relations in professional sports. Topics may include free agency, collective bargaining, strikes and lockouts, and the role of players' associations.

Lectures, seminar, 3 hours per week.

Prerequisite: SPMA 1P91, LABR 1F90 or permission of the instructor.

SPMA 2P21

Organizational Behaviour in Sport Organizations

Behaviours of people in sport organizations. Topics may include individual (motivation, job satisfaction) and interpersonal (communication, group dynamics) processes and management functions concerning employees in sport organizations.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Not open to BBA and BAcc majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Completion of this course will replace previous assigned grade and credit obtained in OBHR 2P51 and 2P52.

SPMA 2P22

Media and Sport

(also offered as COMM 2P22 and PCUL 2P22)

Representation of sport in film, television and advertising. Topics may include issues of race, gender, business, politics, and ideology in both professional and non-professional sports.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA, COMM (single or combined) and PCUL (single or combined) majors with a minimum of 5.0 overall credits or permission of the instructor.

SPMA 2P27

Financial Practices in Sport Management I

Introduction to financial principles. Topics include for-profit and non-profit budgeting, bookkeeping, financial accounting, grant applications and taxation.

Lectures, 3 hours per week.

Restriction: open to SPMA majors. Not open to BBA and BAcc majors.

Prerequisites: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Completion of this course will replace previous assigned grade and credit obtained in SPMA 3P97.

SPMA 2P96

Introduction to Sport and the Law

Sport-related legal issues and concepts. Topics may include negligence and liability, risk management, violence, discrimination, doping, employment and labour law, principles of procedural fairness.

Lectures, 3 hours per week.

Restriction: open to SPMA majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

SPMA 2P97

Facility Management

Sport facility theory and operation emphasizing planning, assessment, and feasibility functions in private and public facilities.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Note: a site visit fee may be charged; consult the Department.

SPMA 3P02

Sport Management Field Work

Placement in an internal Brock University sport or sport-related organization.

Tutorials, 2 hours alternating weeks, plus field work.

Restriction: open to SPMA majors with a minimum of 8.0 overall credits.

Prerequisites: SPMA 2P05 and 2P06.

SPMA 3P06

Globalization of Sport

Examination of political, economic, social, and cultural forces leading to the globalization of sport. Topics may include migration of athletes, sporting goods manufacturing in developing and least developed countries, global sport-media complex, international sport organizations, and the resurgence of nationalism.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 2P06.

SPMA 3P07

Quantitative Analysis for Sport Management

Quantitative means of understanding, evaluating, and interpreting statistical information.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 2P07.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P08 and RECL 3Q07.

SPMA 3P08

Sport Event Management

Examination of the planning model and current practices for major sport events, including provincial, national, and international championships. Topics include feasibility studies, bidding, operational planning, implementation, monitoring, management, evaluation, and renewal of sport events.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA majors who have a minimum of 8.0 overall credits.

Prerequisite: SPMA 2P05.

SPMA 3P17

Qualitative Analysis for Sport Management

Examination of qualitative approaches emphasizing development of skills in a wide range of data collection and analytic techniques, and modes of communicating research.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 2P07.

Completion of this course will replace previous assigned grade and credit obtained in PEKN 3P18 and RECL 3Q17.

SPMA 3P21

Managing Human Resources in Sport Organizations

Theories, research and current practices emphasizing the fundamentals of managing employees. Topics may include job design, recruitment, interview and selection, salary negotiation, orientation, training, evaluation and termination.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits. Not open to BBA and BAcc majors.

Prerequisite: SPMA 2P21.

Completion of this course will replace previous assigned grade and credit obtained in OBHR 2P51, 2P52 and RECL 3P20.

SPMA 3P27

Financial Practices in Sport Management II

Advanced topics in financial management, including time value of money, debt and equity financing, capital budgeting and spending earnings.

Lectures, 3 hours per week.

Restriction: open to SPMA majors who have a minimum of 8.0 overall credits. Not open to BBA and BAcc majors.

Prerequisite: SPMA 2P27.

Completion of this course will replace previous assigned grade and credit obtained in SPMA 3P97.

SPMA 3P55

The Sociology of Professional Wrestling (also offered as SOCI 3P55)

Comprehensive and critical analysis of pro wrestling as cultural phenomenon. Topics to be covered include the history of pro wrestling; the organization of pro wrestling-national and international comparisons; occupational recruitment and retention; the business of pro wrestling multi-media complex.

Lectures, seminar, 3 hours per week.

Restriction: open to SOCI (single or combined) and SPMA majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or SPMA 1P91 and SPMA 1P92 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 4V86.

SPMA 3P65

Sport Marketing

Marketing concepts and strategies utilized in and through sport and the sport industry. Topics include segmentation, the components of the marketing mix, market research, and the development of a marketing plan.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits. Not open to BBA and BAcc majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Completion of this course will replace previous assigned grade and credit obtained in MKTG 2P51, 2P52 and MKTG (OEVI) 4P92.

SPMA 3P75

Sport Sales and Promotion

Comprehensive overview of the strategies and techniques for promoting and selling the sport product, including sales and promotion theory, advertising, media planning, and promotional applications of sport marketing.

Lectures, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 3P65.

SPMA 3P85

Sport and the Consumer

Comprehensive analysis of the consumers of sport and the behaviours dictating their consumption of sport and sport-related goods and services. Characteristics of participants, fans, spectators, volunteers, community, and corporate partners.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 3P65.

SPMA 3P86

Law and Commercial Transactions in Sport
Identifying and protecting commercial assets of a sport organization, including copyright, trade-marks, patents, and personality rights. Introduction to drafting and reviewing commercial agreements.

Lectures, seminar, tutorial, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 2P96.

SPMA 3P90

Analysis of the Sport Industry: Canadian Hockey

International, national and regional structures which govern the Canadian hockey industry from amateur and professional perspectives. Topics may include management and marketing strategies, youth development, legal, and political influences, business and capital challenges and contemporary and future issues.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum of 60 percent).

Note: a site visit fee may be charged; consult the Department.

SPMA 3P93

Sport for Development

Principles and practices of sport as a development strategy to achieve broader social, education, economic, health and humanitarian goals in communities within national and international contexts.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 8.0 overall credits.

Prerequisites: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

SPMA 3P97

Financial Practices in Sport Management

Finance for public, non-profit and commercial sector sport organizations. Topics include financial accounting, time value of money, for-profit and non-profit budgeting, and sources of finance and revenue.

Lectures, 3 hours per week.

Restriction: open to SPMA majors who have a minimum of 8.0 overall credits and permission of the Department. Not open to BBA and BAcc majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (minimum 60 percent).

Completion of this course will replace previous assigned grade and credit obtained in SPMA 2P27 and 3P27.

SPMA 3P99

Special Studies in Sport Management

Directed study in specialized areas of sport management.

Restriction: open to SPMA majors with a minimum 70 percent major average, minimum of 8.0 overall credits and permission of the instructor.

Note: application forms are available online at <http://www.fahs.brocku.ca/spma/currentstudents>.

SPMA 3V90-3V99

Special Topics in Sport Management

Practical experiences offered in specialized areas of sport management.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

SPMA 4F01

Sport Management Internship Project

Major project of mutual interest to the student and organization in which the student is placed for SPMA 4F02. Project will be developed and carried out in consultation with the internship supervisor and the course instructor.

Restriction: open to SPMA majors with a minimum 70 percent major average, a minimum of 13.0 overall credits and permission of the instructor.

Co-requisite: SPMA 4F02.

Note: enrolment limited. Students may not concurrently register in SPMA 4F03, 4F04, or 4F05.

SPMA 4F02

Sport Management Internship

Internship in an approved sport or sport-related organization.

Restriction: open to SPMA majors with a minimum 70 percent major average, a minimum of 13.0 overall credits and permission of the instructor.

Co-requisite: SPMA 4F01.

Note: enrolment limited. Placement will be a full-time experience over the period of one term. Internship applications are available from the Department and must be submitted no later than March 31. Students are responsible for obtaining the internship in consultation with the instructor. Depending upon the nature of the placement, a criminal reference check may be required. Students may not concurrently register in SPMA 4F03, 4F04 or 4F05.

Completion of this course will replace previous assigned grade and credit obtained in SPMA 4P92.

SPMA 4F03

Honours Research Project

Analysis of research assumptions and methodologies in sport management, including

a group research project identifying a research problem, reviewing literature and research methods completing an ethics application, collecting and analyzing data, and presenting the findings.

Lectures, seminar, tutorial, 3 hours per week.

Restriction: open to SPMA majors with a minimum 70 percent major average, 13.0 overall credits and permission of the instructor.

Prerequisite: SPMA 3P07 (minimum of 70 percent) or 3P17 (minimum of 70 percent).
Note: interested students consult the Department. Scheduled tutorials and class meetings are held throughout the year. Students may not concurrently register in SPMA 4F01 and 4F02.

SPMA 4F04

Literature Research and Seminar

Detailed study of the literature relevant to the topic of the Honours Research Thesis, under faculty supervision.

Lectures, tutorial, 3 hours per week.

Restriction: open to SPMA majors with a minimum 70 percent major average, a minimum of 13.0 overall credits and permission of the instructor.

Prerequisite: SPMA 3P07 (minimum 70 percent) or 3P17 (minimum 70 percent).

Co-requisite: SPMA 4F05.

Note: scheduled tutorials and class meetings are held throughout the year. Students may not concurrently register in SPMA 4F01 and 4F02.

SPMA 4F05

Honours Research Thesis

Individual research project carried out under the supervision of a faculty advisor. Topics are to be chosen in consultation with faculty willing to supervise.

Lectures, seminar, tutorial, 3 hours per week.

Restriction: open to SPMA majors with a minimum 70 percent major average, a minimum of 13.0 overall credits and permission of the instructor.

Prerequisite: SPMA 3P07 (minimum 70 percent) or 3P17 (minimum 70 percent).

Co-requisite: SPMA 4F04.

Note: interested students consult the Department. Scheduled tutorials and class meetings are held throughout the year. Students may not concurrently register in SPMA 4F01 and 4F02.

SPMA 4P07

Sport Sponsorship

Examination of the management and delivery of the sport sponsorship marketing exchange process. Topics may include branding, acquisition, pricing, assessment, and evaluation principles of sponsorship.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 3P65.

SPMA 4P08

Sport Management Ethics

Examination of ethical theories, principles and applications, with case study analyses, and personal and professional ethical issues in sport management.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 2P05.

Completion of this course will replace previous assigned grade and obtained credit in PEKN 4P11.

SPMA 4P09

Leadership in Sport Management

Overview and analysis of various leadership theories and their application to sport management. Topics may include leadership styles, roles, and behaviours in the context of sport organizations.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 3P21.

SPMA 4P10

Managing Change and Innovation in Sport Organizations

Examination of the nature of change and innovation within sport organizations; theoretical and practical approaches to analyzing and managing change.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 2P05.

SPMA 4P18

Sport and Social Responsibility

Examination of contemporary of social responsibility relative to sport and the sport industry. Topics include business ethics, community investment, consumer awareness, corporate citizenship, employee relations, accountability, global initiatives, human rights, environmental investment, stakeholder management, and sustainable development.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 2P05.

SPMA 4P25

Strategic Alliances in Sport Management

Strategic management coupled with an overview of various perspectives of interorganizational relationships.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits
Prerequisite: SPMA 2P05.

SPMA 4P27

Application of Economics to Sport Management

Sport decision making within the framework of economic theory. Topics may include demand for and supply of sport events, event pricing and salary decisions, and the economics of sport facilities investment.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 3P27 (3P97).

Completion of this course will replace previous assigned grade and credit obtained in SPMA 4P06.

SPMA 4P86

Legal Drafting and Contract Analysis for Sport Management

Analysis of the structure and use of basic contracts by the sport manager including athlete agreements, contracts of employment services, sponsorship, and licensing and sale agreements.

Lectures, tutorial, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 2P96.

SPMA 4P91

Power, Politics and Policy in Sport

Relationship between power, politics and policy in sport organizations and how social, political, economic and cultural influences affect sport policy. Topics may include content and scope of policy, struggle for power within and between organizations, role of non-governmental organizations, sport as a tool for development, and role of advocacy, public participation and deliberative democracy in policy.

Lectures, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 2P06.

Completion of this course will replace previous assigned grade and credit obtained in SPMA 4V91.

SPMA 4P92

Sport Management Practicum

Field placement with sport-related groups and organizations.

Tutorial, 2 hours alternating weeks over 2 semesters; 80 hour placement.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits and permission of the instructor.

Note: enrolment limited.

Completion of this course will replace previous assigned grade and credit obtained in SPMA 4F02.

SPMA 4P93

Sport for Development Field Experience

May include planning, communication, relationship building, leadership development, program delivery and evaluation in a national or international humanitarian sport project.

Lectures, labs, fieldwork.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits and permission of the instructor.

Prerequisite: SPMA 3P93.

Note: enrolment limited. Students must complete an application and interview prior to being admitted into the course and attend an orientation session. Students must be at least 18 years of age and have a valid passport, visa and immunizations as required. Students are required to pay their own expenses.

SPMA 4P95

Advanced Sport Marketing Seminar

Historical, contemporary and future issues and trends in sport marketing.

Lectures, labs, fieldwork.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 3P65.

SPMA 4P96

Negotiation of Deals and Disputes in Sport Organizations

Introduction to the theory, processes, and practice of negotiation. Topics may include conflict analysis; interest-based negotiation; distributive and integrative negotiations, strategies, techniques and styles; ethical considerations and dispute resolution tools.

Lectures, tutorial, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Prerequisite: SPMA 2P96.

SPMA 4P98

Major Games Field Course

Observation and analysis of operations of a major sport event. Topics may include marketing, human resources, sponsorship, finance, venue management and strategic alliances.

Lectures, labs, fieldwork.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits and permission of the instructor

Prerequisite: SPMA 3P08.

Note: enrolment limited. Students must complete an application and interview prior to being admitted into the course and attend an orientation session. Students must be at least

18 years of age and have a valid passport, visa and immunizations as required. Students are required to pay their own expenses.

SPMA 4P99

Advanced Special Studies in Sport Management

Advanced directed study in specialized areas of sport management.

Restriction: open to SPMA majors with a minimum 70 percent major average, a minimum of 13.0 overall credits and permission of instructor.

Note: application forms available online at <http://www.fahs.brocku.ca/spma/currentstudents>.

SPMA 4V90-4V99

Advanced Topics in Sport Management

Practical experiences offered in specialized areas of sport management.

Lectures, seminar, 3 hours per week.

Restriction: open to SPMA majors with a minimum of 13.0 overall credits.

Studies in Arts and Culture

Director
Jean Bridge

Assistant Professor
Sharilyn Ingram

Co-operating faculty from:
Canadian Studies, Communications, Popular Culture and Film, Dramatic Arts, Music, Physical Education and Kinesiology, and Visual Arts

Academic Adviser
Alisa Cunningham

General Information

Administrative Assistant
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The Centre for Studies in Arts and Culture, part of the Marilyn I. Walker School of Fine and Performing Arts, is concerned with the cultural production, reception and interpretation of the fine and performing arts. From the classics to popular culture, from ancient drawings and rituals to the avant-garde, from the modern to the postmodern, the program examines the products of, and our readings of, individual or collaborative artistic endeavours from the perspective of both the cultural producer and the audience. Through the critical analysis of works of art, dance, film, video, music theatre or digital media, students will gain an awareness of the ways artistic media have functioned in the past or the new ways in which the arts continue to grow.

Our aim is to contribute to the vitality of the arts by developing informed audiences, consumers or critics who are engaged by interdisciplinary practice as well as the theories by which we interpret creative work, whether dance, video, music, theatre or the visual arts.

Ultimately, the Centre for Studies in Arts and Culture is dedicated to developing a context in which the contemporary artist, performer or art critic can examine pragmatic and theoretical approaches to understanding the creative process.

The Studies in Arts and Culture program is designed for students who wish to gain a critical view of contemporary culture from the perspectives of observer, creator and performer. Students are required to discuss their program with the Director.

Language Requirement for Humanities Majors

Students in the Centre for Studies in Arts and Culture are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirements, both half-credits must be in the same language. It is recommended that students satisfy this requirement by year 2.

Program Note

1. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- Two credits from CANA 1F91, DART 1F93, 1F95, MUSI 1F00, 1F10, VISA 1Q98 and 1Q99
- COMM 1F90 or FILM 1F94
- one language credit (see language requirement)
- one Sciences context credit or one Social Sciences context credit

Year 2

- Three credits from STAC 2P93, 2P94, CANA 2P91, 2P92, DART 2F94, 2P96 and 2P97, IASC 2P60, PEKN 2P06, VISA 2F05, 2P26, 2P27, 2P50, 2P51, 2P52, 2P53, 2P90, 2Q98
- one credit from COMM 2F92, 2P54, 2P56, FILM 2P94, PCUL 2P20, 2P21 (PCUL 2P20 and 2P21 recommended)
- the Sciences context credit or Social Sciences context credit not taken in year 1

Year 3

- Two credits from STAC 3P01, 3P14, CANA 3P15, 3P17, DART 3F94, MUSI 3P95, PEKN 3P06, 3P76, VISA 3F01, 3P05, 3P06, 3P41 and 3P42, 3P50
- one credit from FILM 2P91, 3P20, 3P21, 3P91, FILM 3P93 and 3P95 or FILM 3P97 and 3P98
- two elective credits

Year 4

- STAC 4F40
- three credits from STAC 3V90-3V99, 3P98, 3P99, 4V70-4V79, 4F99, DART 4F90, MUSI 3P95, PEKN 4P06, VISA 3P90, 3P91, 3V95-3V99, 4V70-4V79, HIST 3F90
- one credit from COMM 3P92, FILM 3P93 and 3P95 or 3P97 and 3P98, 4P30, 4P31, 4P34, PCUL 3P96

Pass Program

Satisfactory completion of the first three years of the honours program entitles students to apply for a Pass degree.

Minor in Studies in Arts and Culture

Students in other disciplines can obtain a minor in Studies in Arts and Culture within their degree program by completing the following courses with a minimum 60 percent overall average:

- Two credits from DART 1F93, 1F95, MUSI 1F00, 1F10, VISA 1Q98 and 1Q99
- one credit from STAC 2P93, 2P94, DART 2F94, 2P96, 2P97, 3P01 and 3P14, PEKN 2P06, 3P06, VISA 2P50, 2P51, 2P52, 2P53, 2P90, 3F01
- one credit from STAC 3V90-3V99, 3P98, 3P99, 4F40, DART 3F94, MUSI 3P95, PEKN 3P76, 4P06, 4P13, VISA 3P50, 3P90, 3P91

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

- # Indicates a cross listed course
- * Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

STAC 2M90-2M99

Special Studies in the Fine and Performing Arts

Studies of a particular artform (dance) or of a selected area across a range of forms (arts administration).

Lectures, seminar, 3 hours per week.

Note: topics to be announced by the Centre of Studies in Arts and Culture.

* STAC 2P93

Critical Practice in the Fine and Performing Arts

(also offered as IASC 2P93)

Interdisciplinary approach to key ideas about music, art, dance and drama through critical readings and guided exposure to selected public fine and performing art events. Exploration of issues in aesthetics and criticism using varied theoretical approaches.

Lectures, seminar, 3 hours per week.

Prerequisite: one of DART 1F93, IASC 1F00, MUSI 1F10, PEKN 4P16 (3P76), VISA 1Q98 and 1Q99.

Note: event attendance is required; events fees required.

Completion of this course will replace previous assigned grade and credit obtained in STAC 2F90.

* STAC 2P94

Embodied Text: Art Beyond the Artifact

(also offered as IASC 2P94)

How art functions outside the conventions associated with words, texts, paintings and scores. Experiencing musical, visual, movement, and theatre vocabularies through exploration of spatial/temporal/aesthetic/embodied forms of art in performance.

Seminar, workshop, 4 hours per week.

Prerequisite: STAC 2P93 (2F90) or permission of the instructor.

* STAC 3P01

Media Transformations in The Creative Arts

(also offered as IASC 3P01 and VISA 3P01)

The trajectory and influences of new media on the development of and discourses in 20th Century and contemporary creative production including the arts, broadcast, film, video, and electronic arenas such as the internet, games and interactive media. Overview of

fundamental concepts, practices and language. Consideration of aesthetics, production, script and story, direction, authorship, collaborative process and distribution.

Lectures, 3 hours per week.

Prerequisites: two STAC, COMM, ENGL, IASC, VISA or WRIT credits or permission of the instructor.

STAC 3P10

Expanded Video Process and Production

(also offered as IASC 3P10, VISA 3P10)

Practical and conceptual strategies in moving image production using digital video capture, other time-based media and emerging technologies. Contextualization in contemporary discourses. Script, location, directing actors, sequence, production design, planning and process, editing and effects.

Lectures, studio work, 5 hours per week.

Restriction: Open to VISA (single or combined) until the date specified in the Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: two STAC, IASC or VISA credits or permission of the instructor.

Note: enrolment limited to 18 students. Material fees required. Students might need additional materials, which they must supply.

* STAC 3P14

Dramatic Creation for Contemporary Cultural Practice

(also offered as DART 3P14, IASC 3P14 and VISA 3P14)

Components of dramatic story. Understanding character, dramatic action, structure, direction, improvisation, tempo, rhythm, voice and body potential. Theory and practical application in projects for creators in the arts, media and film.

Seminar, workshop 3 hours per week.

Prerequisites: two STAC, COMM, DART, IASC or VISA credits or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply. Students will not receive earned credit for STAC 3P14 if DART 2F92, 3P92 or 3P53 have been successfully completed.

STAC 3P98

Reporting Arts and Culture

(also offered as WRIT 3P98)

Contexts, genres, conventions, and practices of arts journalism in Canada; critical reading of selected texts in arts journalism; practical experience researching and writing arts news, reviews, features, and publicity for print and electronic media.

Lectures, lab, three hours per week.

Prerequisites: two credits numbered 2(alpha)00 or above in STAC, COMM, ENGL, WRIT or permission of the instructor.

* STAC 3P99

Interpretive and Critical Writing in the Arts (also offered as VISA 3P99 and WRIT 3P99) Principles and methodologies for the written presentation and representation of works of art, artists' practice and events within general and specific disciplinary contexts, discourses and frameworks. Examples from across the arts; practice based projects from real world events and performances. Orientation to specialized publics in print and other media.

Seminar, 3 hours per week.

Restriction: students must have a minimum 10.0 overall credits or permission of the instructor.

Note: event attendance is required; events fees required.

Completion of this course will replace previous assigned grade and credit obtained in STAC (VISA/WRIT) 3V99.

STAC 3V90-3V99

Special Studies in the Fine and Performing Arts

Interdisciplinary study of specific issues within the fine and performing arts.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum of 10.0 overall credits.

Note: topics to be announced; materials fee may be required.

STAC 3V96

2009-2010: Imitation in Art and Culture

(also offered as LART 3V96 and VISA 3V96)

Imitation in Western visual art and culture from Plato to Postmodernism, focusing on the Renaissance and the modern period.

Seminar, 3 hours per week.

STAC 3V97

2009-2010: Appropriation in Art and Culture

(also offered as LART 3V97 and VISA 3V97)

Authorship and appropriation in visual and literary culture. Topics include the historical development of the notions of the artist, copyright and plagiarism, quotation, parody and intertextuality, the role of found objects, collage and montage, and the significance of digital technologies. Historical and contemporary examples from a wide range of media.

Lectures, 3 hours per week.

* STAC 4F40

Arts Management

(also offered as DART 4F40 and VISA 4F40)

Effective management of arts organizations to fulfill social and artistic mandates.

Seminar, 3 hours per week.

Restriction: open to STAC, DART (single and combined) and VISA (single and combined) majors until date specified in Registration

guide. Students must have a minimum of 10.0 overall credits.

Note: materials fee may be required.

STAC 4F99

Honours Thesis

Critical, historical or creative project in the fine or performing arts of mutual interest to the student and the instructor.

Restriction: permission of the Director.

Note: students are urged to arrange and plan their projects in the spring for the following year.

STAC 4V70-4V79

Advanced Studies in Arts and Culture

* STAC 4V72

2009-2010: Crossing Boundaries between Fine Art and Entertainment

(also offered as VISA 4V72)

The exchange between high art and entertainment, considering intertextuality and cultural appropriation; the changing role of museums and community-based arts; and the migration of values and tastes between market-driven and not-for-profit cultural outcomes.

Seminar, 3 hours per week.

Restriction: students must have a minimum 15.0 overall credits or permission of the instructor.

Note: event attendance is required; events fees required.

Tourism and Environment

Chair

John Middleton
Anthony J. Ward (as of July 1, 2009)

Professor Emeritus

Robert C. Hoover

Professor

David A. Fennell

Associate Professors

David T. Brown, Atsuko Hashimoto, Karen L. Krug, John Middleton, Ryan Plummer, David J. Telfer, Anthony J. Ward

Assistant Professor

Danuta de Grosbois

Academic Adviser

Jeanette Ramsay

General Information

Administrative Assistant

JoAnne Toews

905-688-5550, extension 3292
Shaver Building, Room 100
<http://www.brocku.ca/tren>

The Department of Tourism and Environment provides an interdisciplinary approach to studying the environment, tourism, and the human-environment interface. Emphasis is placed on exploring the socio-ecological system at local, national, and international scales. It consolidates the former Centre for the Environment and Tourism Studies program.

The Department of Tourism and Environment strives to foster knowledge of sustainability (environmental, social, economic and political) and the tourism environment. Programs of study are designed for students pursuing careers in tourism administration, environmental management, economic development, or planning in local organizations, multinational corporations or municipal, provincial or national government agencies.

Students are also able to combine the Tourism and Environment Degree with a Minor in Intercultural Studies. Students interested in pursuing the Minor in International Studies are

required to follow the prescribed set of courses for the Minor outlined in the Intercultural Studies section of the calendar.

Brock University is uniquely positioned on the Niagara Escarpment (a biosphere reserve) and minutes away from Niagara Falls, one of the premier international tourism destinations in the world.

The Department of Tourism and Environment offers a BA Honours and a BA with Major in Tourism and Environment, both of which are four-year programs. The requirement for graduation with a BA Honours degree in Tourism and Environment is a minimum of 70 percent major average and a minimum of 60 percent non-major average in the remaining credits. The requirement for graduation with a BA in Tourism and Environment is a minimum 60 percent major average and a minimum 60 percent overall average.

Program Notes

1. A minimum grade of 60 percent in TREN 1F90 is required to continue as a major.
2. Recommended electives in the first year include at least one of MATH 1P98; MGMT 1P51, 1P52; WRIT 1P93; a language elective.
3. If field courses are taken as electives, a maximum of 1.5 credits may be taken from TREN 3F70, 3F94, 3P70, 3P71.
4. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- TREN 1F90 (see program note 1)
- one Humanities context credit
- one Sciences context credit
- two elective credits (see program note 2)

Year 2

- TREN 2P13
- one credit from TREN 2P10, 2P12, 2P14, 2P91 (see program note 4)
- one credit from TREN 2P11, 2P28, 2P41

- one credit from TREN 2P16, 2P26, 2P42, 2P93 (see program note 4)
- one non-TREN elective credit
- one-half elective credit

Year 3

- TREN 3P23
- one of TREN 3P10, 3P15, 3P16, 3P17, 3P18, 3P22, 3P94
- one of TREN 3P11, 3P21, 3P25, 3P49
- one of TREN 3P12, 3P13, 3P95
- one non-TREN credit
- one elective credit (see program note 3)

Year 4

- TREN 4F90 and 4F91
- one TREN credit numbered 3(alpha)90 or above
- one TREN credit
- one non-TREN elective credit

BA with Major Program

Year 1

- TREN 1F90 (see program note 1)
- one Humanities context credit
- one Sciences context credit
- two elective credits (see program note 2)

Year 2

- TREN 2P13
- one credit from TREN 2P10, 2P12, 2P14, 2P91 (see program note 4)
- one credit from TREN 2P11, 2P28, 2P41
- one credit from TREN 2P16, 2P26, 2P42, 2P93 (see program note 4)
- one non-TREN elective credit
- one-half elective credit

Year 3

- One of TREN 3P10, 3P15, 3P16, 3P17, 3P18, 3P22, 3P94
- one of TREN 3P11, 3P21, 3P25, 3P49
- one of TREN 3P12, 3P13, 3P95
- one and one-half TREN credits (see program notes 3 and 4)
- one non-TREN elective credit
- one elective credit (see program note 4)

Year 4

- Three TREN credits numbered 3(alpha)90 or above
- one TREN credit
- one non-TREN elective credit

Certificate in Environment

The Certificate in Environment provides focused training for those who already hold a degree, or have equivalent professional experience. Prospective students should consult with the Chair before beginning the certificate program.

The MATH/COSC requirement will be waived if equivalent courses have already been taken. Courses cannot be counted twice; therefore no TREN course can count for both a degree and a certificate.

See "Certificate Requirements" under Academic Regulations.

The Certificate is awarded upon completion of the following credits with a minimum 60 percent overall average:

Four TREN credits numbered 2(*alpha*)90 or above (chosen in consultation with the Chair)
MATH 1P98
one-half COSC credit

Minor Program

Minor in Environmental Studies

Students in other disciplines may obtain a Minor in Environmental Studies by successfully completing the following courses with a minimum of 60 percent overall average:

- TREN 1F90, 2P28, 3P19 and 3P22
- one and one-half TREN credits numbered 2(*alpha*)00 or above

Minor in Tourism Studies

Students in other disciplines can obtain a Minor in Tourism Studies within their degree program by completing the following courses with a minimum 60 percent overall average:

- TREN 1F90 and 3P11
- two credits from TREN 2P10, 2P26, 3P10, 3P12, 3P13, 3P16, 3P17, 3P65, 3P70, 3P71, 3P92, 3P93
- TREN 2P11 or 2P12
- one of TREN 4P10, 4P11, 4P12, 4P13, 4P15

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

- # Indicates a cross listed course
- * Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

TREN 1F90
Tourism, Sustainability and Environment
Theories, principles, and concepts related to the study of tourism, sustainability and the environment. Key components include tourist demand and motivation, tourism supply, principles of ecology and resource management, impacts of tourism, sustainability imperative, marketing and management of tourism, tourism in lesser developed countries, tourism and climate change, tourism health and safety, ecotourism and alternative tourism, and ethics and responsibility in tourism. Case studies of principles of sustainability applied to tourism.
Lectures, seminar, 3 hours per week.

TREN 2P10
Culture, Heritage and Tourism
Principles of preservation, conservation, and management of built and cultural resources for heritage tourism destinations on a variety of scales from World Heritage Sites to local heritage and cultural tourism attractions. Regional identities and environments and the importance of small and medium sized enterprises.
Lectures, seminar 3 hours per week.
Restriction: open to TREN majors until date specified in Registration guide.
Prerequisite: TREN 1F90 or permission of instructor.

TREN 2P11
Sustainable Business Operation in Tourism
Structure, operating characteristics and sustainability management practices of different sectors of the tourism industry (entertainment and recreation, accommodation, food and beverage, transportation, travel services).

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide
Prerequisite: TREN 1F90 or permission of the instructor.

TREN 2P12

Tourist Behaviour

Socio-cultural dimensions of tourists and tourists' behaviours during the process of taking a holiday. Issues of motivation, social role, and attitudes in tourist settings. Ethical and delinquent behaviours, host and guest relationships, typology of tourists, and decision-making processes.

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.
Prerequisite: TREN 1F90 or permission of the instructor.

TREN 2P13

Introduction to Research Methods in Tourism and Environment

Principles of research design, data collection and analysis in the context of research in tourism and environment.

Lectures, seminar/lab, 3 hours per week.

Restriction: open to TREN majors.
Prerequisite: TREN 1F90 or permission of the instructor.

TREN 2P14

Institutional Arrangements in Tourism and Environment

Systems of decision making in tourism and the environment. Institutional models and solutions. Analysis of Canadian, provincial, and regional case studies.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.
Prerequisite: TREN 1F90 or permission of the instructor.

TREN 2P16

Human-Dominated Ecosystems

Human impacts in natural and built ecosystems from local to global scales. Key environmental issues and the principles and policies that affect them emphasizing policy options, problem solving, and possibilities for creative planned change. Local examples from the Greenbelt and Niagara Escarpment.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.
Prerequisite: TREN 1F90 or permission of the instructor.

TREN 2P26

Nature-based Tourism

Emergence and global importance of different forms of nature based tourism emphasizing non-consumptive (ecotourism) and consumptive (fishing) forms.

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.

Prerequisite: TREN 1F90.

TREN 2P28

Economics of the Environment

(also offered as ECON 2P28)

Economic perspectives on environmental and natural resource issues. Topics may include valuing environment improvements, population growth issues, sustainable development, forestry and fishery management, ozone depletion and climate change.

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

TREN 2P41

Economics of Tourism and Leisure Activities (also offered as ECON 2P41)

Introduction to the economic analysis of the tourism industry. Determinants of the demand and supply for tourism and recreation; impact of tourism, recreation and leisure on regional and national economies. Topics may include ecotourism and the impact of government policies on tourism and recreation.

Lectures, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide. Students must hold a minimum of 4.0 overall credits. Not open to ECON (single or combined) majors, BBE, INPE, ECON minor.

Note: major credit will not be granted to BBE, ECON students or INPE majors.

TREN 2P42

Biodiversity Conservation

Conservation of species and ecosystems in ecological, social and economic contexts. Co-existence of humans and wild life in parks, Biosphere Reserves such as the Niagara Escarpment, zoos, and productive landscapes such as the Greenbelt.

Lectures, seminar, field work, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.

Prerequisite: TREN 1F90 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 3P20.

TREN 2P91

Ethics, Equity and Environmental Thought

Meaning of terms and distinctions in ethical theory as they apply to environmental issues. Background theory on equity, and case studies illustrating its place in developing sustainable approaches to environmental issues. Introduction to major ecophilosophies and their contributions, limitations and significance.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.

Prerequisite: TREN 1F90 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 3P19.

TREN 2P93

Sustainable Integrated Waste Management

Waste reduction, reuse and recycling; environmentally sensible design. Waste auditing, optimal materials use and life cycle analysis. Sewage treatment technologies. Composting for managing organic waste and sewage. Tourism and waste management on land, on the water and in the air; managing wastes in remote and environmentally sensitive areas, camps and resorts. Policy, legislation and case studies.

Lectures, seminar, workshop, 3 hours per week.

Restriction: open to TREN majors until date specified in Registration guide.

Prerequisite: TREN 1F90 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in TREN 3P14.

TREN 3F70

Field Course

Intensive field course with relevance to Tourism and Environment.

Restriction: permission of the instructor.

Note: consult the Department prior to registration. Students are expected to cover all their own expenses.

* TREN 3F94

International Field Course

(also offered as INTC 3F94)

Intensive field course in another country, with relevance to Tourism and Environment.

Restriction: permission of the instructor.

Note: consult the Department prior to registration. Students are expected to cover all their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3F94.

TREN 3P10

Tourism Planning and Development

Planning and development of tourism resorts, attractions, tourism sites and regional economies through tourism; consideration of regional, provincial and national developments.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

* TREN 3P11

International Tourism

(also offered as INTC 3P11)

Changes in power relations, environment, society, culture and economy through the globalization of tourism. Human rights and inequality in international tourism.

Lectures, 3 hours per week.

Restriction: open to TREN majors and INTL minors until date specified in Registration guide. Students must hold a minimum of 8.0 overall credits.

Prerequisite: TREN 1F90, INTC (INTL 1F90) or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P11.

TREN 3P13

Tourist Destination Branding

Creation of destination images and branding issues, related issues of IT and distribution channels for tourism products.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P15

Environmental Management

Contextual background and perspectives for managing the environment and natural resources. Examination of associated theories and principles. Applied considerations (assessment, planning, implementation, evaluation/monitoring) gained through development of a management plan.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P16

Tourism and Aquatic Ecosystems

History and current issues of tourism related to aquatic environments. Functioning of aquatic ecosystems and their management. Case-study based analysis of theory and critical aspects of operations.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P17

Strategic Program Planning in Ecotourism

Intersection of theory and practice for the policy and planning of sustainable ecotourism programs.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

Note: field trip during the second week of class. Field trip fee.

TREN 3P18

Sustainable Transportation

Interdisciplinary survey of the environmental, cultural, social and economic effects of automobiles, airplanes, trains and watercraft in built and natural environments. Impacts of tourist mobility. Principles, policies, and planning for sustainable transportation.

Lectures, seminar, workshop, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

* TREN 3P21

Global Conventions on Environment and Development

(also offered as INTC 3P21)

Attempts of the global community to set policy through processes such as the World Conservation Strategy, the Brundtland Commission, Agenda 21 and the UN Intergovernmental Panel on Climate Change.

Lectures, seminar, workshop, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90, INTC (INTL) 1F90 or permission of instructor.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P21.

TREN 3P22

Ecosystem-Based Planning

Principles of ecosystem-based planning of human settlements and natural infrastructure, using the Niagara region, the Toronto waterfront, the Greenbelt, the Niagara Escarpment, and other local and regional examples as case studies. Translation of principles of ecosystem-based planning into practice. The role of governments, agencies, ministries, academic institutions, NGOs and private citizens in facilitating ecosystem-based planning. Current initiatives and future prospects for ecosystem-based planning. Inventory of natural, social, cultural, historical and economic resources and the development of practical, implementable policy plans for significant local landscape features.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P23

Research Design

Research on focused issues or tasks emphasizing problem definition, establishment of terms of reference, report preparation, communication, and formal presentation.

Seminar, workshop, 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 2P13 or permission of instructor.

TREN 3P25

Global Issues in Tourism and the Environment

Interaction of tourism mobility and the environment with the politics of nation states and regions. Political economy of tourism, implications of foreign policy, travel restrictions, borders and barriers to the movement of people, resources and trade.

Lectures 3 hours per week.

Restriction: open to TREN majors with a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

* TREN 3P49

Gender and Environment

(also offered as WISE 3P49)

Theoretical perspectives on feminism and eco-philosophies such as eco-feminism, deep ecology and social ecology. Implications for

local, national and global policy.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN, WISE majors, minors and certificate students with a minimum of 8.0 overall credits or permission of the instructor.

Prerequisite: one of TREN 1F90, WISE 2P90, 2P91 or permission of instructor.

TREN 3P65

Geography of Rural Development and Tourism

(also offered as GEOG 3P65)

Overview of tourism as it intersects with rural development theory, processes and planning. Examination of various social, environmental, cultural and economic problems, consequences and opportunities of tourism in a rural development context. Incorporates examples of rural festivals, wineries and agri-tourism as means to understand appropriate rural tourism development.

Lectures, seminar, 4 hours per week.

Restriction: open to TREN, GEOG (single or combined) and GEOG (Honours)/BED (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: TREN 1F90, GEOG 1F90 or permission of the instructor.

TREN 3P66

Environmental Policy, Law, and Administration

(also offered as POLI 3P66)

Development of the issue of pollution, including perceptions of the problem of different actors, public participation, governmental reactions and legislation, the implementation of potential solutions and international cooperation. Topics may include toxic wastes, acid rain, energy, the Great Lakes, risk assessment and ideologies.

Lectures, seminar, 3 hours per week.

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* TREN 3P70

International Field Course

(also offered as INTC 3P70)

Intensive field course in another country of relevance to Tourism and Environment.

Restriction: permission of the instructor.

Prerequisite: TREN 1F90, INTC (INTL) 1F90.

Note: consult the Department prior to registration. Students are expected to cover all their own expenses.

Completion of this course will replace previous assigned grade and credit obtained in INTL 3P70.

TREN 3P71

Field Course

Intensive field course of relevance to Tourism and Environment.

Restriction: open to students who hold a minimum of 8.0 overall credits and permission of the instructor.

Prerequisite: TREN 1F90.

Note: Consult the Department prior to registration. Students are expected to cover all their own expenses.

TREN 3P90

Directed Studies I

Topics and readings to be chosen in consultation with a faculty member who is willing to supervise the student.

Restriction: open to TREN majors who hold a minimum of 8.0 overall credits and permission of Chair.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P91

Directed Studies II

Topics and readings to be chosen in consultation with a faculty member who is willing to supervise the student.

Restriction: open to TREN majors who hold a minimum of 8.0 overall credits and permission of Chair.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P92

Environment I

Explores one topic in the field of Tourism and Environment

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors who hold a minimum of 8.0 overall credits or permission of instructor.

TREN 3P93

Environment II

Explores one topic in the field of Tourism and Environment

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors who hold a minimum of 8.0 overall credits or permission of instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P94

Sustainability and Complex Adaptive Systems

Consideration of sustainable development from complex systems theory. How individuals and societies respond to complexity and uncertainty. Examination and application of social-ecological systems concepts and approaches in pursuing resilience.

Lectures, 3 hours per week.

Restriction: open to TREN, WISE majors,

minors and certificate students with a minimum of 8.0 overall credits or permission of the instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 3P95

Managerial Decision Making for Sustainable Tourism

Introduction to theories, concepts and tools of decision making in pursuit of organizational objectives. Analysis of decision making process, determinants of successful decisions and roles of uncertainty, risk, power and conflict. The concepts and methods are illustrated with cases from tourism industry focusing on the challenges of implementing principles of sustainability.

Lectures, 3 hours per week.

Restriction: open to TREN, WISE majors, minors and certificate students with a minimum of 8.0 overall credits or permission of the instructor.

Prerequisite: TREN 1F90 or permission of instructor.

TREN 4F90

Honours Thesis

Original Research project under faculty supervision.

Restriction: open to TREN majors with a minimum 80 percent major average and approval to year 4 (honours) or permission of the Chair.

Prerequisite: TREN 3P23 or permission of the instructor.

Co-requisite: TREN 4F91.

Note: scheduled tutorials and class meetings are held throughout the year. An oral defence of the final report may be required. Consult the Chair prior to registration.

TREN 4F91

Literature Research and Seminar

Detailed study of the literature relevant to the topic of the honours thesis, under faculty supervision.

Restriction: open to TREN majors with a minimum 80 percent major average and approval to year 4 (honours) or permission of the Chair.

Prerequisite: TREN 3P23 or permission of the instructor.

Co-requisite: 4F90.

Note: scheduled tutorials and class meetings are held throughout the year. An oral defence of the final report may be required. Consult the Chair prior to registration.

TREN 4P10

Themes in Tourism Development

Historical, contemporary and future themes in tourism and development theory. Implications of selecting tourism as a development strategy

under various tourism development paradigms.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of the instructor.

* TREN 4P11

Cross-Cultural Perspectives of Tourism and Environment

(also offered as INTC 4P11)

Cultural differences in philosophy and approaches to the natural and social environments, tourism resources, natural resources, environmental policies and management.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors and INTL minors with a minimum of 12.0 overall credits or permission of the instructor.

TREN 4P12

Tourism, Sex and Health

Relationship between tourist's behaviours and health issues. Sex tourism paradigms, infectious disease, migration of disease associated with tourism.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of the instructor.

TREN 4P13

Sustainable Destination Management and Issues

Tourism destination management concepts through the use of case studies. Theories, principles and implications of clustering, partnerships, strategic alliances and innovation between various destination stakeholders.

Lectures, 3 hours per week.

Restriction: open to TREN majors with minimum of 12.0 overall credits or permission of the instructor

TREN 4P14

Issues in Environmental Studies

Exploration of contemporary topics in environmental studies.

Seminar, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of the instructor.

TREN 4P15

Tourism Ethics

Exploration of values and moral development relating to tourism.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of instructor.

TREN 4P16

Great Works in Environmentalism

Systematic breakdown of major works in the development of environmentalism, and the implications for the present day.

Lectures, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of instructor.

TREN 4P17

Sustainable Rural Tourism

Critical analysis of definitions of policies for and approaches to rural tourism and agritourism in terms of sustainability principles.

Lectures, seminar, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of instructor.

TREN 4P18

Quantitative Ecosystem Analysis

Computer modelling and other numerical techniques for exploring human impacts on ecosystems and for developing feasible policy and management options for the future.

Seminar, workshop, 3 hours per week.

Restriction: open to TREN majors with minimum of 12.0 overall credits or permission of instructor.

TREN 4P19

Environmental Heritage

Identification, inventory, interpretation and conservation of natural and built environmental heritage features with a focus on the Niagara Region including the Greenbelt and the Niagara Escarpment. Significant natural landscapes and habitats; important residential, commercial, institutional, agricultural and industrial architecture and infrastructure; parks, trails and greenways; transportation heritage. Role of environmental heritage in tourism and education.

Lectures, tutorials, project workshops, 3 hours per week.

Restriction: open to TREN majors with a minimum of 12.0 overall credits or permission of instructor.

Note: scheduled tutorials and class meetings are held throughout the term. This course involves independent field work for the production of an online interpretive report on a significant environmental heritage feature in the Niagara Region.

TREN 4P50

Themes in Intercultural Studies

(also offered as INTC 4P50)

Seminar discussion and development of individual research papers on an intercultural studies theme as reflected in each student's major area.

Seminar, 3 hours per week.

Restriction: students must have a minimum of 12.0 overall credits.

Prerequisite: INTC (INTL) 1F90 or permission of the Director.

Visual Arts

Chair

Murray Kropf

Professor

Merijean Morrissey

Associate Professors

Jean Bridge, Derek Knight, Murray Kropf

Assistant Professors

Keri Cronin, Duncan MacDonald, Linda Steer

Part-time Instructors

Amy Friend, Lorene Bourgeois, Brian Durocher, Judith Marquis, Jennifer Rudder, Donna Szoke, David Wright

Visiting Artist

Catherine Heard

TBA (as of July 1, 2009)

Visual Resources Librarian and Collections Coordinator

Lesley Bell

Studio Facilities Technician

Arnold McBay

Academic Adviser

Alisa Cunnington

General Information

Administrative Assistant

Monika Lederich

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573 Glenridge 121

<http://www.brocku.ca/visualarts>

The Department of Visual Arts, part of the Marilyn I. Walker School of Fine and Performing Arts, is concerned with the nature, function and history of visual arts, from the classics to popular culture, from ancient drawings and rituals to the avant-garde. Through critical analysis of classic works and personal creative development, the student will gain an awareness of the ways in which artistic media function. Our aim is to contribute to the vitality of the arts by developing sensitive, creative and articulate artists, teachers, audiences and graduates who are disciplined and adaptable, with both research skills and experience in studio practice.

The Visual Arts program consists of studio and art history courses that provide a practical and

critical understanding of the visual arts emphasizing personal development. To this end students are introduced to a range of historical, theoretical and critical approaches to art-making and to the investigation of cultural documents. Students are encouraged to extend their experience through exposure to events sponsored by the Department of Visual Arts and the Marilyn I. Walker School of Fine and Performing Arts. Students are also offered opportunities to visit galleries and exhibitions through field trips organized by the Department of Visual Arts or in the context of specific course curriculum.

Studio activities that include intuitive, analytical and conceptual approaches are designed with the aspirations of the student artist in mind. Options are encouraged in the studio with introductory or advanced courses in drawing, painting and interdisciplinary workshops; additional courses in sculpture, photography or computer imaging broaden the experience and introduce the photographic, video or electronic medium to students. Student learning is facilitated by artist-teachers who have professional experience and standing in the disciplines they teach.

Art history courses examine the development of artistic styles as well as the critical and aesthetic issues that these styles bring into play. Major artists and movements are related to their cultural contexts and artistic traditions with the goal of developing critical as well as aesthetic acumen. With a Minor in Art History and a Concentration in Curatorial Studies, students can explore the cultural, theoretical or practical methods involving the interpretation or exhibition of works of art.

The BSc (Honours) in Computer Science and Visual Arts program is tailored to students who may be interested in career paths in software development and digital media. The degree gives a solid foundation in computer technology and software science, as well as essential foundations in visual arts, with an emphasis on digital media.

Enrolment in most studio courses is limited to between 18 and 24 students. VISA 4F06 might also be restricted due to space limitations.

Facilities

Visual Arts facilities include a slide collection and resource centre, art studios, computer labs, video editing room and darkroom. A new studio complex located in East Academic facilitates first, second and third year courses in drawing, painting, sculpture and interdisciplinary studio. Studio facilities for Honours Students are located at Rodman Hall Arts Centre.

Summer Studies in Italy

The Department of Visual Arts offers a summer course in Italy in conjunction with the Italian section of the Department of Modern Languages, Literatures and Cultures. Contact the Department for information and registration.

Language Requirement for Humanities Majors

Students in the Department of Visual Arts are required to complete one credit in a language other than English. Where half-credit courses are used to satisfy the requirement, both half-credits must be in the same language.

Program Notes

1. Context credits and language requirement must normally be completed within the first 10 credits.
2. From the following list, no more than three VISA credits may be counted toward an Honours degree, single or combined major and no more than two for a Pass degree: VISA 3M20-3M29, 3P22, 3P23, 3P24, 3P25.
3. Students who do not have the necessary prerequisites for studio courses (VISA 1P93, 1P94, 1P96, 1P97, 2F05, 2P02, 2P04, 2P26, 2P27, 2P93, 2P94, 2P95, 2P96, 2P97, 2P98, 2P99, 3F90, 3F96, 3P03, 3P04, 3P10, 3P11, 3P93, 3P94, 4P03, 4P04, 4F06) may be admitted by portfolio. Details are available from the Administrative Assistant. Enrolment in these courses will be limited; participation as an auditor is not permitted.
4. Year 3 courses are normally restricted to students with a minimum of three credits numbered 2(alpha)00 or above or permission of the instructor.
5. Non-majors may enroll in a maximum of one VISA studio credit without a portfolio.
6. Portfolio evaluation and interview are required for student seeking to change their major to Visual Arts. The Department will consider these requests in January and May. Contact the Department for further information.
7. Students wishing to take VISA 3F99, 4F06

or 4F99 must have a minimum of 75 percent major average and permission of the Department. Proposals are normally submitted by May 1 of each year.

8. VISA 3P01, 3P05, 3P06, 3P50 recommended in year 3 and VISA 3P41, 3P42, 3V95-3V99, 4F40 recommended as elective credits in year 3 and 4).

9. In 20 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; at least three credits must be numbered 3(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(*alpha*)00 to 1(*alpha*)99; at least three credits must be numbered 2(*alpha*)90 or above; and the remaining credits must be numbered 2(*alpha*)00 or above.

Honours Program

Year 1

- VISA 1P93, 1P94, 1P96, 1P97, 1Q98 and 1Q99
- one Science context credit
- one elective credit

Year 2

- One credit from VISA 2F05, 2P02, 2P04, 2P26, 2P27, 2P99, 2F99, 2M90-2M99, 2P95, 2P96
- one credit from VISA 2P41, 2P50, 2P51, 2P52, 2P53, 2P90, 2P92, 2Q98, 3M00-3M04, 3P03, 3P04, 3P22, 3P23, 3P24, 3P25
- VISA 2P93 and 2P94, or VISA 2P97 and 2P98
- one language credit (see language requirement)
- one Social Science context credit

Year 3

- Two VISA studio credits numbered 3(*alpha*)00 to 3(*alpha*)99
- one VISA credit (see program note 8)
- one VISA studio credit
- one elective credit (see program note 8)

Year 4

- VISA 3P90 and 3P91
- two VISA studio credits numbered 3(*alpha*)90 to 4(*alpha*)10
- two elective credits (see program note 8)

Concurrent BA/BEd Program

The Department of Visual Arts and the Faculty of Education co-operate in offering two Concurrent BA (Honours)/BEd programs. The Visual Arts BA (Honours)/BEd program combines the BA Honours program or the BA Integrated Studies Honours program with the teacher education programs for students interested in teaching at the Intermediate/Senior level (grades 7-12) and at the Junior/Intermediate level (grades 4-10). Refer to the Education - Concurrent BA (Honours)/BEd (Intermediate/Senior) or Education - Concurrent BA Integrated Studies (Honours)/BEd (Junior/Intermediate) program listings for further information.

Pass Program

Year 1

- VISA 1P93, 1P94, 1P96, 1P97, 1Q98 and 1Q99
- one Science context credit
- one elective credit

Year 2

- one credit from VISA 2F05, 2P02, 2P04, 2P26, 2P27, 2P95, 2P96, 2P99
- one credit from VISA 2P93, 2P94, 2P97, 2P98, 2M90-2M99
- one Social Science context credit
- one language credit (see language requirement)
- one elective credit

Year 3

- One credit from VISA 2P41, 2P50, 2P51, 2P52, 2P53, 2P90, 2P92, 2Q98, 3M00-3M04, 3P01, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25, 3P50, 3P90, 3P91
- one VISA studio credit numbered 3(*alpha*)00 to 3(*alpha*)99
- one VISA studio credit
- two elective credits

Combined Major Program

A student in Visual Arts may combine either an Honours or Pass program in Visual Arts and a second discipline. For requirements in the other discipline, the student should consult the relevant department/centre. It should be noted that not all department/centres provide a combined major option.

Honours

- VISA 1P93, 1P94, 1P96, 1P97, 1Q98 and 1Q99
- four VISA credits (see program note 9)

Pass

- VISA 1Q98 and 1Q99
- four VISA credits (see program note 9)

BSc (Honours) Computer Science and Visual Arts

Consult the Computer Science entry for a listing of program requirements.

Concentration in Curatorial Studies

Students may earn a Concentration in Curatorial Studies by successfully completing the following courses as part of the academic work leading to a BA (Honours) in Studies in Arts and Culture and Visual Arts:

- VISA 1Q98, 1Q99, 3P41, 3P42 and 4F40
- three credits from VISA 2P50, 2P51, 2P52, 2P53, 2P90, 3P01, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25, 3P50, 3P90, 3P91, 3V95-3V99

Minor in Art History

Students in other disciplines can obtain a Minor in Art History within their degree program by completing the following courses with a minimum 60 percent overall average:

- VISA 1Q98 and 1Q99
- two credits from VISA 2P50, 2P51, 2P52, 2P53, 2P90, 2P92, 2Q98, 3P22, 3P23, 3P24, 3P25
- one credit from VISA 3P05, 3P06, 3P50, 3P90, 3P91, 3V95-3V99, 4V70-4V79

Course Descriptions

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

VISA 1P93

Introduction to Drawing

Fundamental principles of drawing. Analytic, creative and graphic notation.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors.

Note: enrolment limited to 21 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 1P94

Figure Drawing

Fundamentals of drawing the figure anatomically and expressively.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors.

Prerequisite: VISA 1P93 (minimum 60 percent).

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply.

* VISA 1P96

Foundation Studio

(also offered as IASC 1P96)

Basic aesthetic and conceptual processes that underlie visual art production. Two- and three-dimensional formal principles, fundamental critical issues and stylistic/material development. Examples from historic and contemporary art practice provide context for studio projects and readings.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined), VISA (Honours)/BEEd (Intermediate/Senior) majors and Production and Design Concentration students until date specified in Registration guide. After that date open to IASC (single or combined) majors.

Prerequisite: permission of instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

* VISA 1P97

Studio Now: Introduction to Contemporary Practice

(also offered as IASC 1P97)

The making, thinking and language of contemporary art from the perspective of the

studio practitioner; dynamics between contemporary art practice and theory. Emphasis on multimedia, alternative or marginal practices, current studio trends and the cultural reception of art.

Lectures, studio work, gallery visits, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors until date specified in Registration guide. After that date open to IASC (single or combined) majors.

Prerequisite: VISA 1P96 (minimum 60 percent).

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

* VISA 1Q98

Introduction to Visual Culture

(also offered as LART 1Q98 and IASC 1Q98)

Concepts of art, its vocabulary, structure and varied cultural contexts. Problems of meaning, visual perception and formal structure of the visual arts, functions of art in contemporary society, the function of galleries and museums, and the role of patrons and critics. Contemporary critical methodology.

Lectures, seminar, 3 hours week.

Note: no studio work. Materials fee required. Completion of this course will replace previous assigned grade and credit obtained in GBLS 1Q98.

* VISA 1Q99

Introduction to the History of Western Art

(also offered as LART 1Q99 and IASC 1Q99)

Analysis of key monuments and on the prerequisite technology, as well as on various ways of looking at the visual past and present. Focus on the visual arts from prehistory through the early 20th century.

Lectures, seminar, 3 hours week.

Note: no studio work. Materials fee required. Completion of this course will replace previous assigned grade and credit obtained in GBLS 1Q99.

VISA 2F05

Introduction to Sculpture

Fundamentals of three-dimensional work: design, construction and formal analysis. Emphasizing modeling techniques and principles of assemblage including mold or form making, casting and fabrication.

Lectures, studio work, 10 hours per week.

Restriction: open to VISA (single or combined) majors until date specified in Registration guide.

Note: offered in spring session only. Enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 2F99

Reading the Italian City

(also offered as ITAL 2F99)

Exploring key monuments, churches, museums and urban sites culminating with the Venice Biennale. Concept of the city as expressed through art, literature and architecture from Medieval to Post-modern times. Historical and geographical influences and factors in shaping the city, its culture and traditions, from fine arts to culinary arts and oenology. Cities may include Rome, Orvieto, Assisi, Siena, Florence and Venice.

Restriction: permission of the Department.

Prerequisites: two VISA or ITAL credits.

Note: offered in Italy. Given in English. Open to students whose interests include either art history or studio. Italian majors will receive language instruction and will complete assignments in Italian. Registrants are expected to pay their own expenses.

VISA 2M90-2M99

Special Studies in Studio

Studies in a specialized area of the visual arts.

Lectures, studio work, field trip, 5 hours per week.

VISA 2P02

Painting Fundamentals

Fundamentals of painting: introduction to colour theory, media and methods.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors.

Prerequisites: VISA 1P94 (minimum 60 percent) or 1P97 (minimum 60 percent); VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 2P04

Figurative Painting

Fundamentals of conceiving and painting the figure: introduction to the anatomic, narrative and expressive concepts of the human form.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEEd (Intermediate/Senior) majors.

Prerequisite: VISA 2P02.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply. Completion of this course will replace previous assigned grade and credit obtained in VISA 2P03.

VISA 2P26

Photography: Camera and Darkroom Process

Fundamentals of 35mm photography: camera, exposure and processing of black and white film

and basic darkroom processes. History of photography, critical analysis and photographic theory.

Lectures, lab, 5 hour per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEd (Intermediate/Senior) majors until date specified in Registration guide.

Prerequisite: VISA 1P97 (minimum 60 percent) or permission of the instructor.

Note: enrolment limited to 15 students. Materials fee required. Students might need additional materials and equipment which they must supply.

* VISA 2P27

Introduction to Digital Imaging

(also offered as COMM 2P27 and IASC 2P27) Principles in digital imaging; digital cameras and image capture; digital negatives; colour management; image adjustment and enhancement; and image output. History of photography, imaging and critical analysis of visual culture.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined), VISA (Honours)/BEd (Intermediate/Senior) and COMM majors until date specified in Registration guide.

Prerequisite: one of VISA 1P97, APCO 1P00 and 1P01, COMM 1F90, IASC 1F00 or permission of the instructor.

Note: enrolment limited to 24 students. Materials fee required.

VISA 2P41

Baroque Art and Architecture

Influence of such artists as Caravaggio, Gentileschi, Rembrandt, Rubens and Poussin examined in terms of the broader definition of Baroque art within 17th- and 18th-century Europe.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

VISA 2P50

Canadian Identities: From Nouvelle France to the Mid-20th Century

Canadian cultural life from Nouvelle France to the art and architecture of Confederation; from 18th-century topographical sketches to the landscape icons of the Group of Seven; from the Social Realism of the 1930s to the beginnings of abstraction, emphasizing historical identity, cultural definition and nationalism in art.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

VISA 2P51

Canadian Art since 1960: Contemporary Trends

Major conceptual, critical and theoretical concerns of the visual artist; from Les Automatistes to neo-expressionism, Pop to neo-Pop, conceptual art to photo-conceptualism, installation to site-specific sculpture, video to multimedia.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

VISA 2P52

Visual Culture and the Human Body

Relationships between representations of the human body and discourses of health, sickness, personal identity and controversy in both historical and contemporary times. Case studies in such areas as anthropology, medicine, performance art, censorship, pornography, portraiture, photography.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

VISA 2P53

The History of Photography

History of photography from its inception to the present day. Emphasis on the ways in which photographs produce meaning and are mobilized as visual culture as well as analysis of contemporary art practices.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

* VISA 2P90

Art in Revolution: The Rise of Modernism
(also offered as INTC 2P90)

Role and function of art within the paradigm shifts of the modern world, its relation to politics, social, cultural and technological change. Principal movements with origins in the French Revolution and the Industrial Revolution; Neoclassicism, Romanticism, Realism, Impressionism and Postimpressionism.

Lectures, seminar, 3 hours per week.

Prerequisite: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent), INTC (INTL) 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2Q90.

VISA 2P92

Renaissance Art and Architecture

(also offered as ITAL 2P92 and MARS 2P92) Major monuments, buildings and art works of

the period from several critical perspectives including the humanist influence on the arts in Florence and Rome, the issue of patronage and the question of the artist's cultural status.

Lectures, seminar, 3 hours per week.

Prerequisite: one of VISA 1Q98 and 1Q99, ITAL 1F90, MARS 1F90 or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade and credit obtained in VISA (ITAL) 2P40.

VISA 2P93

Drawing III

Further investigation of drawing materials and techniques emphasizing compositional structures.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) and VISA (Honours)/BEd (Intermediate/Senior) majors.

Prerequisite: VISA 1P94 (minimum 60 percent).

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 2P94

Drawing IV

Idea development, integration of media and conceptual approaches.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) VISA (Honours)/BEd (Intermediate/Senior) majors.

Prerequisite: VISA 2P93.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

* VISA 2P95

Introduction to Web-based Interactive Media
(also offered as APCO 2P95, COMM 2P95 and IASC 2P95)

Basic technical and design foundations of web-based media production, including image processing, interactive web design and multimedia production. Contemporary digital practices within the broader history of cultural production, tracing developments in technology and media arts.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined), VISA (Honours)/BEd (Intermediate/Senior) and COMM (single or combined) majors until date specified in Registration guide.

Prerequisite: one of VISA 1P97, APCO 2P89, COMM 1F90, IASC 1F00.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials and equipment, which they must supply.

* VISA 2P96

Introduction to 3D Modelling and Animation
(also offered as COSC 2P96 and IASC 2P96)
Concepts and skills of 3D modelling and rendering. Approaches to building models, using texturizing, lighting, cameras and rendering as well as basic animation techniques. Relevant historic and theoretical perspectives on 3D and virtuality situating 3D within creative process and broader critical practices in cultural production.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined majors) and VISA (Honours)/BEEd (Intermediate/Senior) until date specified in Registration guide.

Prerequisite: one of VISA 1P97, four COSC credits, IASC 1F00.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials and equipment which they must supply.

* VISA 2P97

Digital Video Art

(also offered as IASC 2P97)

Concepts of basic videography and its applications within conceptual and aesthetic studio practice. Camerawork, composition and lighting; digital video and audio editing, special effects, composing, text and titling, and DV output. Critical analysis of recent and contemporary film and video practices.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined majors) until date specified in Registration guide.

Prerequisite: VISA 1P97 (minimum 60 percent), IASC 1F00 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials and equipment which they must supply.

* VISA 2P98

Intermedia: Time and Space

(also offered as IASC 2P98)

Approaches to the conceptualization and production of video, sound generation, multimedia environments, performance, interactive and installation art.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined majors) until date specified in Registration guide.

Prerequisite: VISA 2P97, IASC 1F00 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials and equipment, which they must supply.

* VISA 2P99

Introduction to Sound Design

(also offered as IASC 2P99)

Approaches to the conceptualization and production of sound recording, notation, field-recording, foley arts, soundtrack production, experimental music and performance and contemporary sound art.

Lectures, lab, 5 hours per week.

Restriction: open to VISA (single or combined majors) until date specified in Registration guide.

Prerequisite: VISA 2P97, IASC 1F00 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials and equipment.

* VISA 2Q98

The Artistic Experience

(also offered as LART 2Q98 and PHIL 2Q98)

Classical theories of art through analysis of painting, photography, video, film, music and drama examining concepts such as beauty, creativity, artistic intention, perception, interpretation and the nature and possible role of art.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 and 1Q99, one PHIL credit or permission of the instructor.

Completion of this course will replace previous assigned grade and credit obtained in GBLS 2Q98.

* VISA 3F01

Women in Art

(also offered as WISE 3F01)

Contributions of women artists to the history of Western Art.

Lectures, seminar, 3 hours per week.

Prerequisite: VISA 1Q98 and 1Q99 (minimum 60 percent) or permission of the instructor.

Note: gallery visits and artists' presentations. Completion of this course will replace previous assigned grade and credit obtained in VISA (WISE) 3M01.

VISA 3F90

Thematic Challenges in Integrated Media

Hybrid methodologies, media and practices. Contemporary discourses and trends. Cross-pollination between traditional practices and new forms of creative expression.

Lectures, studio work, 5 hours per week.

Restriction: students must hold a minimum 12.0 overall credits.

Prerequisite: one credit from VISA 3F96, 3P93, 3P94, 3P95, 3P96 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Student might need additional materials which they must supply.

Completion of this course will replace previous assigned grade and credit obtained in VISA 3M90.

* VISA 3F96

Interdisciplinary Workshop

(also offered as DART 3F96 and IASC 3F96)

Advanced studio workshop in interdisciplinary studio practices, including video, performance, audio and conceptual art, interventions and other time-based or experimental media. Projects involve collaboration and investigation of alternatives in public dissemination of artworks.

Lectures, studio work, reading, off-campus projects, 5 hours per week.

Prerequisites: one credit from VISA 2P95, 2P96, 2P97, 2P98, 2P99 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply. Several field trips are organized outside of the regular course meeting time. Students participating in field trips are expected to pay their own expenses.

VISA 3F99

Honours Tutorial

Advanced study in an area of mutual interest to the student and the instructor.

Restriction: students must have a minimum 75 percent major average and permission of the Department.

Note: a written proposal, normally submitted in May of each year, must be approved by the Department before registration.

VISA 3M00-3M04

Special Studies in Art History

VISA 3M05-3M10

Art Studies Abroad

Unique cultural, architectural or regional setting examined through the eye of the visual artist, critic or art historian utilizing the host country's institutional resources, museums and galleries. For students with an interest in both studio and art history.

Restriction: permission of the Chair.

Prerequisite: one VISA credit or permission of the instructor.

VISA 3M20-3M29

Study in Mediterranean Lands

(also offered as CLAS 3M20-3M29)

Topographical investigations of ancient sites and monuments. Study tours of the great cities and museums of the Mediterranean world emphasizing the art and architecture of the Prehistoric, Classical and later periods.

Restriction: permission of the Department.

Note: offered in the Spring or Summer Session for three or four weeks of intensive study abroad. Students are expected to pay their own expenses.

VISA 3M24

2009-2010: Study Tour in Turkey
(also offered as CLAS 3M24)

Archaeological and art historical investigation in Turkey, including Istanbul, Cappadocia, Apendos, Kekova, Knidos, Halikarnassos, Pergamon and Troy. Emphasis on the major Greco-Roman sites and monuments as well as later development in Byzantine and Islamic art and architecture.

Restriction: permission of the Department.
Note: offered in the Spring Session for three weeks of intensive study abroad. Students are expected to pay their own expenses.

VISA 3M90-3M95

Special Studies in Visual Arts

Studies that combine theory and studio.

VISA 3P01

Media Transformations in The Creative Arts
(also offered as IASC 3P01 and STAC 3P01)

The trajectory and influences of new media on the development of and discourses in 20th Century and contemporary creative production including the arts, broadcast, film, video and electronic arenas such as the internet, games and interactive media. Overview of fundamental concepts, practices and language. Consideration of aesthetics, production, script and story, direction, authorship, collaborative process and distribution.

Lectures, 3 hours per week.

Prerequisites: two VISA, COMM, ENGL, IASC or WRIT credits or permission of the instructor.

VISA 3P03

Intermediate Painting

Painting techniques emphasizing compositional, formal and graphic elements.

Lectures, studio work, 5 hours per week.

Prerequisite: VISA 2P04 (2P03).

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials.

VISA 3P04

Painting Concepts

Conceptual development, synthesis and integration of media with emphasis on contemporary approaches and practices.

Lectures, studio work, 5 hours per week.

Prerequisite: VISA 3P03.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials.

VISA 3P05

The European Avant-Garde: 1905-1970

Contextual analysis of the European and Russian avant-garde movements in art, design and architecture, emphasizing principal artists, theoretical or primary documents and the critical reaction.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

VISA 3P06

The American Avant-Garde: 1912-1970

From the Armory Show to the European influence on American art and photography of the Early Century, the International Style in architecture, to the emergence of the New York school, the Pop movement, Minimalism and conceptual art, and their hold on the art and culture of the 60s.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 (minimum 60 percent) and 1Q99 (minimum 60 percent) or permission of the instructor.

* VISA 3P10

Expanded Video Process and Production
(also offered as IASC 3P10, STAC 3P10)

Practical and conceptual strategies in moving image production using digital video capture, other time-based media and emerging technologies. Contextualization in contemporary discourses. Script, location, directing actors, sequence, production design, planning and process, editing and effects.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) until the date specified in the Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: two VISA, IASC or STAC credits or permission of the instructor.

Note: enrolment limited to 18 students. Material fees required. Students might need additional materials, which they must supply.

VISA 3P11

Image, Object and Narrative

Studio-based creative material production that explores the use of images, representation and narrative meaning. Builds on understanding of art practices such as painting, drawing, photography and sculpture.

Lectures, studio work, 5 hours per week.

Restriction: open to VISA (single or combined) VISA (Honours)/BEd (Intermediate/Senior) majors.

Prerequisites: two credits from VISA 2F05, 2P02, 2P04, 2P26, 2P27, 2P93, 2P94.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

Completion of this course will replace previous assigned grade and credit obtained in VISA 3P02.

VISA 3P14

Dramatic Creation for Contemporary Cultural Production

(also offered as DART 3P14, IASC 3P14 and STAC 3P14)

Components of dramatic story. Understanding character, dramatic action, structure, direction, improvisation, tempo, rhythm, voice and body potential. Theory and practical application in projects for creators in the arts, media and film.

Seminar, workshop 3 hours per week.

Prerequisites: two VISA, COMM, IASC or STAC credits or permission of the instructor. Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply. Students will not receive earned credit for STAC 3P14 if DART 2F92, 3P92 or 3P53 have been successfully completed.

VISA 3P22

Art and Architecture of Iron Age Italy and the Roman Republic

(also offered as CLAS 3P22)

Art and architecture of the cultures of the Italian peninsula, in the first millennium BC, within the framework of cultural change and external influences.

Lectures, 3 hours per week.

Prerequisite: one credit from VISA 1Q98 and 1Q99, CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35.

VISA 3P23

Art and Architecture of Rome in the Imperial Age

(also offered as CLAS 3P23)

Roman art and architecture from Augustus to Late Antiquity. Christian art and architecture and the influence of Roman aesthetics on the Renaissance and beyond.

Lectures, 3 hours per week.

Prerequisite: VISA one credit from VISA 1Q98 and 1Q99, CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35.

VISA 3P24

Art and Architecture of Early Greece

(also offered as CLAS 3P24)

Greek art and architecture from the end of the Bronze age through the end of the Archaic period within the framework of historical and cultural change.

Lectures, 3 hours per week.

Prerequisite: VISA one credit from VISA 1Q98 and 1Q99, CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35.

VISA 3P25

Art and Architecture of Classical Greece and the Hellenistic World

(also offered as CLAS 3P25)

Greek art and architecture from the early Classical era through the Hellenistic period within the framework of historical and cultural change.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from VISA 1Q98 and 1Q99, CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P27, 2P35.

VISA 3P41

Approaches to Curatorial Practice

Practical application of methodological and theoretical approaches to curating.

Workshop, 3 hours per week.

Prerequisites: VISA 1Q98 and 1Q99 ; two credits from VISA 2P41, 2P50, 2P51, 2P52, 2P53, 2P90, 2P91, 2P92 (2P40), 2Q98, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25, 3P50, 3P90, 3P91.

Note: enrolment limited to 15 students. Participants may be required to travel to locations other than on campus.

VISA 3P42

Methods and Principles of Curating

Curatorial function of the museum, gallery and cultural organizations and the role of the curator in society. Critical and theoretical aspects of curating and methodological approaches to interpretation, dissemination and presentation of cultural artifacts, artworks and new forms of media.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 and 1Q99 ; two credits from VISA 2P41, 2P50, 2P51, 2P52, 2P53, 2P90, 2P91, 2P92 (2P40), 2Q98, 3P01, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25, 3P50, 3P90, 3P91.

Note: enrolment limited to 20 students.

VISA 3P50

Ecologies of Space

How we influence our environments, adapt to and utilize space; their cultural and social meanings; aesthetic, human or political implications; significance of built environments, architecture's role and public spaces; de-featured or non-spaces; natural habitats and representations of the "natural"; the artist's contribution to the evolution of postmodern geographies and monumental or site-specific space.

Lectures, seminar, 3 hours per week.

Prerequisites: VISA 1Q98 and 1Q99; one credit from VISA 2P50, 2P51, 2P52, 2P53, 2P90, 2P91, 3P01, 3P05, 3P06, STAC 2P93 or permission of the instructor.

VISA 3P90

Readings in Contemporary Art I: 1970-1990

Advanced seminar, emphasizing what constitutes the paradigm shift from Late Modernism to Postmodernism.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum of 9.0 overall credits.

Prerequisites: VISA 1Q98 and 1Q99; two credits from VISA 2P50, 2P51, 2P90, 2P91, 3P05, 3P06 or permission of the instructor.

Note: required for all VISA (single) Honours students.

VISA 3P91

Readings in Contemporary Art II: Art Now

Current trends in the production, reception and interpretation of art and discursive approaches to contemporary issues including the critical text, theoretical and cultural readings.

Lectures, seminar, 3 hours per week.

Restriction: students must have a minimum of 9.0 overall credits.

Prerequisite: VISA 3P90.

Note: required for all VISA (single) Honours students.

VISA 3P93

Expressive Drawing

Advanced drawing as a means of expressing personal and subjective imagery.

Lectures, studio work, 5 hours per week.

Prerequisite: VISA 2P94 (2F92).

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 3P94

Contemporary Drawing

Advanced drawing which questions the boundaries of media, process and creative expression.

Lectures, studio work, 5 hours per week.

Prerequisite: VISA 3P93.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 3P99

Interpretive and Critical Writing in the Arts

(also offered as STAC 3P99 and WRIT 3P99)

Principles and methodologies for the written presentation and representation of works of art, artists' practice and events within general and specific disciplinary contexts, discourses and frameworks. Examples from across the arts; practice-based projects from real world events and performances. Orientation to specialized publics in print and other media.

Seminar, 3 hours per week.

Restriction: students must have a minimum 10.0 overall credits or permission of the instructor.

Note: event attendance is required; events fees required.

Completion of this course will replace previous assigned grade and credit obtained in VISA (STAC/WISE) 3V99.

VISA 3V95-3V99

Special Studies in Visual Culture

VISA 3V96

2009-2010: Imitation in Art and Culture

(also offered as LART 3V96 and STAC 3V96) Imitation in Western visual art and culture from Plato to Postmodernism, focusing on the Renaissance and the modern period.

Seminar, 3 hours per week.

* VISA 3V97

2009-2010: Appropriation in Art and Culture

(also offered as LART 3V97 and STAC 3V97) Authorship and appropriation in visual and literary culture. Topics include the historical development of the notions of the artist, copyright and plagiarism, quotation, parody and intertextuality, the role of found objects, collage and montage, and the significance of digital technologies. Historical and contemporary examples from a wide range of media.

Lectures, 3 hours per week.

VISA 4F06

Honours Studio

Advanced studio practice from concept to public exhibition. Readings, grant applications, production schedules, exhibition co-ordination, catalogue preparation and advertising.

Studio work, 5 hours per week.

Restriction: students must have a minimum 75 percent major average and permission of the Department.

Note: enrolment may be restricted due to limitations of space. A written proposal, normally submitted in May of each year, must be approved by the Department before registration. Honours standing in VISA is required. Materials fee required. Students might need additional materials, which they must supply. Several field trips are required outside regular course meeting time. Students participating in field trips are expected to pay their own expenses. Students should contact the Department for further information.

VISA 4F40

Arts Management

(also offered as STAC 4F40 and DART 4F40) Effective management of arts organizations to fulfill social and artistic mandates.

Seminar, 3 hours per week.

Restriction: open to VISA (single and combined), DART (single and combined) and STAC majors until date specified in Registration guide. Students must have a minimum of 10.0 overall credits.

Note: materials fee may be required.

VISA 4F99

Honours Thesis

Critical, historical or creative project in the visual arts of mutual interest to the student and the instructor.

Restriction: students must have a minimum 75 percent major average and permission of the Department.

Note: projects must be arranged in the spring for the following year. A written proposal, normally submitted in May of each year, must be approved by the Department before registration. Honours standing in VISA is required.

VISA 4P03

Advanced Painting

Contemporary painting strategies and their dominant critiques. Readings in contemporary practice.

Lectures, studio work, 5 hours per week.

Prerequisite: VISA 3P03.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials.

Completion of this course will replace previous assigned grade and credit obtained in VISA 3P95.

VISA 4P04

Contemporary Painting

Creation of a body of paintings that reflect the inter-relationships among critical strategies, personal mythologies, process and meaning.

Lectures, studio work, 5 hours per week.

Prerequisite: VISA 4P03.

Note: enrolment limited to 18 students. Materials fee required. Students must supply any additional materials.

Completion of this course will replace previous assigned grade and credit obtained in VISA 3P96.

VISA 4V30-4V39

Special topics in Mediterranean Art and Architecture

(also offered as CLAS 4V30-4V39)

Selected topics and problems in current art historical and archaeological research pertaining to the art and architecture of the ancient Greek or Roman world.

Lectures, seminar, 3 hours per week.

Prerequisite: VISA 1Q98 and 1Q99 or one credit from CLAS 3P22, 3P23, 3P24, 3P25.

VISA 4V37

2009-2010 The Age of Augustus: Images and Monuments

(also offered as CLAS 4V37)

The achievements of the artists and architects of the age of Augustus and how their works helped transform Rome from the havoc of civil war into an imperial city.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from CLAS 3P22, 3P23, 3P24, 3P25, VISA 1Q98 and 1Q99 or permission of the Department.

VISA 4V70-4V79

Advanced Studies in Visual Culture

VISA 4V72

2009-2010: Crossing Boundaries Between Fine Art and Entertainment

(also offered as STAC 4V72)

The exchange between high art and entertainment, considering intertextuality and cultural appropriation; the changing role of museums and community-based arts; and the migration of values and tastes between market-driven and not-for-profit cultural outcomes.

Seminar, 3 hours per week.

Restriction: students must have a minimum 15.0 overall credits or permission of the instructor.

Note: event attendance is required; events fees required.

Women's Studies

Director

Christine Daigle

Associate Professor

Ana Isla

Assistant Professors

Lynn Arner, Margot Francis

Participating Faculty

Sharon Abbey (Faculty of Education), Kate Bezanson, (Sociology), May Bletz (Modern Languages, Literatures and Cultures), Maureen Connolly (Physical Education and Kinesiology), Nancy Cook (Sociology), June Corman (Sociology), Carol Gaspari (Library), Allison Glazebrook (Classics), Ann Marie Guilmette (Recreation and Leisure Studies), Catherine Jean Nash (Geography), Adela Nistor (Economics), Ingrid Makus (Political Science), Carol Merriam (Classics), Meri Jean Morrissey (Visual Arts), Carmela Patrias (History), Ebru Ustundag (Geography), Michelle Webber (Sociology)

Co-operating Centres and Departments:

Applied Linguistics, Canadian Studies, Child and Youth Studies, Classics, Communication, Popular Culture and Film, Community Health Sciences, Economics, Graduate and Undergraduate Studies in Education, English Language and Literature, Geography, History, Intercultural Studies, Labour Studies, Modern Languages, Literatures and Cultures, Nursing, Philosophy, Physical Education and Kinesiology, Political Science, Psychology, Recreation and Leisure Studies, Sociology, Sport Management, Tourism and Environment, Visual Arts

General Information

Administrative Assistant

Barb Alexander

905-688-5550, extension 4330

Mackenzie Chown D 411

Women's Studies is an interdisciplinary field of study distinguished by its focus on the experiences of a range of different women, — past and present—and analyses of gender. Women's Studies courses invite both male and female students to explore the interplay of gender and power, with careful attention to the intersections of race, class, sexuality, colonialism and imperialism.

Women's Studies students engage with women's texts and cultural artifacts, examine national and international gender politics and activism, experience innovative teaching, and develop skills in feminist theory and research methods. Students of Women's Studies are well equipped to bring a critical analysis to a range of careers including those in education, business and management, law, health, government and social services.

The Women's Studies program aims to provide a supportive and intellectually challenging environment to women in the university and it maintains active links to women's organizations in the community. The Centre for Women's Studies is dedicated to the memory of the fourteen women students whose deaths in 1989 at the École Polytechnique dramatized the need for a greater understanding of systemic and structural violence against women both locally and globally.

Social Service Worker-Sheridan College

The Social Service Worker Program involves courses offered through Brock University and Sheridan College of Applied Arts and Technology. This four-year program combines training in a variety of applied social service settings at Sheridan College with an Honours BA Women's Studies at Brock. Students can obtain both solid applied skills and a strong theoretical foundation in a variety of aspects of social services. The program leads to career opportunities in a wide variety of areas including youth worker, assistants for developmentally challenged individuals, counsellor in a variety of group home and mental health settings, and acting as an advocate or counsellor in crisis centres or centres for women. Obtaining both an Honours BA Women's Studies and a college diploma would ordinarily involve at least five years of study, but this Brock-Sheridan articulation agreement program combines the two in a single integrated package that can be completed in four years. Applicants must have a minimum 70 percent overall average to be considered for admission to the program. Volunteering experience and attainment of the Brock Leadership Skills Certificate programs are considered assets. Successful applicants must maintain a minimum 70 percent overall average during Year 2 and meet other program requirements to continue in the program. Enrolment in this program is limited. Admission to the program is not guaranteed by attainment of the minimum requirements. Application forms and further details concerning the Social Service Worker program are available from the Office of the Dean of Social Sciences.

Yukon College Exchange and Degree Completion Program

This program allows Yukon College students to attend Brock University upon completion of the first two years of their studies in Whitehorse, Yukon Territory. This program also allows Brock students to attend Yukon College to complete the second year of their studies. Students completing their degree upon transfer to Brock University will complete a Science Context credit, six Women's Studies credits, and three elective credits (see curriculum outline for a list of specific courses that are required). These courses can be taken in any of the following terms, as long as all course requirements are met by the end of the spring term following Year Three. Yukon College students may also complete up to two credits on Letter of Permission from a recognized Canadian University. This curriculum can only be completed in fourteen months if students begin taking courses in the Spring Term after they have completed Year Two of their studies at Yukon College. Students can complete either an Honours BA or a Four Year BA with a Major in Women's Studies. Brock students attending Year Two at Yukon College will complete a combination of Women's Studies, and elective courses that are equivalent to the second-year program at Brock. Students will then return to Brock to complete the final two years of their studies. Students can complete an Honours BA with a major in Women's Studies upon their return to Brock University.

Program Notes

1. Students intending to pursue an Honours degree should take WISE 2P90 and 2P91 in year 2.
2. With the permission of the Director of Women's Studies, courses in related disciplines numbered 3(alpha)90 or above may be considered for WISE credits.
3. Courses from other departments may be given a Women's Studies credit. A course outline must be approved by the Director.
4. WRIT 1P93 is recommended.
5. In 20 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least three credits must be numbered 2(alpha)90 or above; at least three credits must be numbered 3(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above. In 15 credit degree programs a maximum of eight credits may be numbered 1(alpha)00 to 1(alpha)99; at least

three credits must be numbered 2(alpha)90 or above; and the remaining credits must be numbered 2(alpha)00 or above.

Honours Program

Year 1

- WISE 1F90
- one Humanities context credit
- one Sciences context credit (BIOL 1F25 or SCIE 1P50 and 1P51 are recommended)
- two elective credits (see program note 4)

Year 2

- WISE 2P90 and 2P91
- WISE 2P94 or 2Q99
- WISE 2P96 or 2P99
- one WISE credit
- two elective credits

Year 3

- WISE 3F95, 3P90 and 3P91
- one WISE credit numbered 2(alpha)90 or above
- two elective credits

Year 4

- One and one-half WISE credits numbered 2(alpha)90 or above
- one and one-half WISE credits numbered 3(alpha)90 or above
- two elective credits

Yukon College Exchange and Degree Completion Program

Honours

For Brock students attending Yukon College in Year Two

Year 1

- (taken at Brock University)
- WISE 1F90
 - one Humanities context credit
 - one Sciences context credit (BIOL 1F25 or SCIE 1P50 and 1P51 are recommended)
 - two elective credits (see program note 4)

Year 2

- (taken at Yukon College)
- WMST 200 and 230
- two credits from WMST courses, CRIM 213, •GSTD 120, HIST 120, HIST 121, HIST 135, HIST 136, PSYC 230
- one and one-half credits from ANTH 100, ANTH 222, CRIM 103, CRIM 104, ENGL 220, ENGL 230, ENV 100, HIST 221, HIST

240, HIST 241, PSYC 203, SW 289, SW 414, SW 421 (Human Growth and Behaviour)

- one-half elective credit

Year 3

- WISE 3F95, 3P90 and 3P91
- one WISE credit numbered 2(alpha)90 or above
- two elective credits (see program note 5)

Year 4

- One and one-half WISE credits numbered 2(alpha)90 or above
- one and one-half WISE credits numbered 3(alpha)90 or above
- two elective credits

Honours Program

Years 1 and 2

- (taken at Yukon College)

Spring/Summer Sessions:

- Two WISE or elective credits (see program note 5)
- one Sciences context credit

Year 3

- WISE 2P91, 3F95, 3P90 and 3P91
- WISE 2P94 or 2Q99
- one WISE credit numbered 3(alpha)90 or above
- one elective credit

Spring Session:

- Two WISE or elective credits (not taken following Year 2 Spring/Summer Sessions; see program note 5)

Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Combined Major Program

Honours

Year 1

- WISE 1F90
- one credit from the co-major discipline
- one Sciences context credit (BIOL 1F25 or SCIE 1P50 and 1P51 are recommended)
- one Humanities context credit
- one elective credit (see program note 4)

Year 2

- WISE 2P90 and 2P91
- WISE 2P94 or 2Q99
- WISE 2P96 or 2P99
- two credits from the co-major discipline
- one elective credit

Year 3

- WISE 3P90 and 3P91
- one WISE credit
- two credits from the co-major discipline
- one elective credit

Year 4

- One and one-half WISE credits numbered 2(alpha)90 or above
- one-half WISE credit numbered 3(alpha)90 or above
- two credits from the co-major discipline (see program note 5)
- one elective credit

Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

Certificate Program

The Centre for Women's Studies also offers a Certificate in Women's Studies. It provides an overview for interested persons who already have a degree in a different field or who do not wish to proceed to a degree. It is of special interest to people working in a related field. The admission requirements are the same as for the degree program. Prospective students should consult with the Director before beginning the certificate program.

The certificate is awarded upon completion of the following courses with an overall average of 60 percent:

- Two credits from WISE 1F90, 2P00, 2P90 and 2P91
- WISE 2P94 or 2Q99
- WISE 2P96 or 2P99
- two WISE credits (see program note 3)

Minor Program

Students in other disciplines can obtain a minor in Women's Studies within their degree program by completing the following courses with a minimum 60 percent overall average:

- WISE 1F90
- three WISE credits

Brock/Colleges Articulation Agreement

Social Service Worker-Sheridan College

Year 1

- WISE 1F90
- PSYC 1F90
- one Humanities Context credit
- one Sciences context credit
- one elective credit (SOC 1F90 recommended)

Year 2

- WISE 2P90, 2P91 and 2P94
- WISE 2P96 or 2P99
- one WISE credit numbered 2(alpha)00 to 2(alpha)99 (WISE 2Q95 recommended)
- one-half WISE credit numbered 2(alpha)90 or above
- PSYC 2P30
- SOCI 1P80
- one-half elective credit (WRIT 1P93 or PSYC 2P31 recommended)

Year 3

- taken at Sheridan College

Year 4

- WISE 3P90, 3P91 and 3P95
- one WISE credit numbered 2(alpha)90 to 3(alpha)99
- two WISE credits numbered 3(alpha)90 to 4(alpha)99
- one-half elective credit

Description of Courses

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

Indicates a cross listed course

* Indicates a primary offering of a cross listed course

Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

WISE 1F90

Introduction to Women's Studies

Overview of sociocultural, political, institutional and theoretical approaches to, and historical, philosophical and literary foundations of the study of women's lives.

Lectures, seminar, 3 hours per week.

WISE 2P00

Classic and Contemporary Discourses in Women's Studies

Issues-based approach to the gender-intersected character of society and culture from women's perspectives within a variety of feminist theoretical frameworks.

Lectures, seminar, 3 hours per week.

WISE 2P20

Sexualities and Society

(also offered as SOCI 2P20)

Topics may include the structuring of sexual identities, sexuality and inequality, legal and social regulation of sexuality, social justice issues.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: one of WISE 1F90, 2P00, SOCI 1F90.

WISE 2P21

Sociology of Families

(also offered as SOCI 2P21)

Family patterns including gender roles and the dynamics of family change and development. Topics include marriage and family issues, gender role socialization and change, dual careers, alternative lifestyles, gender roles in cross-cultural perspective, and marital and family relationships past, present and future.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors and minors until date specified in the Registration guide.

Prerequisite: WISE 1F90 or SOCI 1F90.

Completion of this course will replace previous assigned grade and credit obtained in CHYS 3P38.

WISE 2P45

Sociology of African Canadians

(also offered as SOCI 2P45)

Sociological perspectives and issues in the lives of African Canadians. Topics may include contemporary and historical immigration patterns, slavery, criminal justice, family, gender analysis, racism, sexual identity, labour, the civil rights movement, desegregation, Diasporan debates, and contributions in arts and science. Addresses men's and women's issues equally.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: WISE 1F90 or SOCI 1F90.

WISE 2P56

Gender in Modern European History

(also offered as HIST 2P56)

Men's and women's roles and experiences, and changing notions of femininity and masculinity, from the French Revolution to the present day. Intersection of gender with citizenship, nationalism, imperialism, class, work, education and war.

Lectures, seminar, 3 hours per week.

Restriction: open to HIST (single or combined), HIST (Honours)/BED (Intermediate/Senior), WISE (single or combined) majors and minors until date specified in Registration guide.

WISE 2P61

Women in the Ancient World

(also offered as CLAS 2P61)

Women's social roles, environment and legal rights including conceptions of the female and ideals of women. Consideration given to women from other parts of the Mediterranean such as Etruria, Egypt and the Near East, focusing on women in Greek and Roman society. Emphasis on the nature and limitations of the various types of evidence.

Lectures, seminar, 3 hours per week.

* WISE 2P86

Women in the Economy

(also offered as CANA 2P86, ECON 2P86, LABR 2P86 and SOCI 2P86)

Women in the Canadian labour market. Topics include allocation of time between the household and labour market, gender segregation in the work place, how earnings are determined, causes of occupational and earning difference by gender, role of investment in education and discrimination, recent developments in the labour market and their impact on women and men, and selected policy issues.

Lectures, 3 hours per week.

Restriction: students must have a minimum of 4.0 overall credits.

* WISE 2P90

Women's Issues: Sexuality, Class, Ethnicity

(also offered as SOCI 2P90)

Diverse theoretical perspectives on the intersecting locations of women in terms of sexuality, class, ethnicity and other expressions of social inequality. Classic feminist perspectives as applied to these issues and related social policies.

Lectures, seminar, 3 hours per week.
Prerequisite: WISE 1F90, SOCI 1F90 or permission of the instructor.

WISE 2P91
Historical Perspectives on Women
Western history of debates about women and ideologies of gender from the late Middle Ages to the Second Wave. Topics may include witchcraft, bodies, la querelle des femmes, shrews, education, hysteria, intellectual capacities, sexuality and the exchange of women between men.
Lectures, seminar, 3 hours per week.
Prerequisite: WISE 1F90 or permission of the instructor.

* WISE 2P94
Feminist Philosophy
(also offered as PHIL 2P94)
The views of various feminist philosophers focusing on important debates from the analytic and continental traditions.
Lectures, seminar, 3 hours per week.
Prerequisite: one of WISE 1F90, PHIL 1F90, 1F91, 1F93, 1F94.

* WISE 2P96
Women and Development
(also offered as INTC 2P96, LABR 2P96 and SOCI 2P96)
Examination of the major social consequences of the theoretical paradigms of development (economic development, sustainable development and women/gender in development), theoretical material, practical knowledge and debates on diverse experiences of women living in the non-industrial world using feminist perspectives.
Lectures, seminar, 3 hours per week.
Prerequisite: one of WISE 1F90, INTL 1F90, LABR 1F90 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.
Completion of this course will replace previous assigned grade and credit obtained in INTL 2P96.

* WISE 2P99
Canadian Women in a Global Context
(also offered as INTC 2P99 and SOCI 2P99)
Social, political, economic and cultural issues. Topics may include rights of Aboriginal women, reproductive rights and ethics, marginalization of immigrant women, activist movements, and the impact and inadequacy of government policy.
Lectures, seminar, 3 hours per week.
Prerequisite: WISE 2P90 or permission of the instructor.
Completion of this course will replace previous assigned grade and credit obtained in INTL 2P99.

* WISE 2Q90
Mothering and Motherhood: Images, Issues and Patterns
(also offered as SOCI 2Q90)
Motherhood as it is theorized/analyzed in interdisciplinary feminist scholarship and portrayed in women's fictional or autobiographical writings and art forms. The historical, socio-cultural, psychological, political and racial differences of mothering and motherhood roles.
Lectures, 3 hours per week.
Prerequisite: one of WISE 1F90, INTC (INTL) 1F90, SOCI 1F90.

WISE 2Q93
Women in North America to 1865
(also offered as HIST 2Q93)
Major themes in the history of women in Canada and the United States: native and European women in New France and British North America; women in the American Revolution; the lives of enslaved women; women and industrialization; women in the west; and social reform.
Lectures, seminar, 3 hours per week.
Restriction: open to WISE (single or combined), HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.
Completion of this course will replace previous assigned grade and credit obtained in HIST (WISE) 2Q95.

WISE 2Q94
Women in North America, 1865 to the Present
(also offered as HIST 2Q94)
Major themes in the history of women in Canada and the United States: emancipation; industrialization and immigration; suffrage and social movements; gender, race and ethnicity; women and the two world wars; and feminism in the 1960s and 1970s.
Lectures, seminar, 3 hours per week.
Restriction: open to WISE (single or combined), HIST (single or combined), HIST (Honours)/BEd (Intermediate/Senior) majors and minors until date specified in Registration guide.
Completion of this course will replace previous assigned grade and credit obtained in WISE (HIST) 2Q95.

WISE 2Q96
Women in the Pre-Modern World
(also offered as HIST 2Q96)
Women's lives before 1800, how women's experience of historical phenomena differed from that of men; special problems in studying "women's history."
Lectures, seminar, 3 hours per week.

* WISE 2Q99
Women and Literature
(also offered as ENGL 2Q99 and INTC 2Q99)
Feminist perspectives on representations of women and their writings, focusing on Western and/or World Literature.
Lectures, seminar, 3 hours per week.
Prerequisite: one of WISE 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or INTC (INTL) 1F90.

WISE 2V20-2V29
Studies in Writing by Women
(also offered as ENGL 2V20-2V29)
Selected topics in women's writing.
Prerequisite: WISE 1F90, two ENGL credits numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

* WISE 2V90-2V99
Selected Topics in Women's Studies
Topics selected on the basis of faculty expertise.
Seminar, 3 hours per week.
Prerequisite: WISE 1F90 or 2P00.

WISE 3F01
Women in Art
(also offered as VISA 3F01)
Contributions of women artists to the history of Western Art.
Lectures, seminar, 6 hours per week.
Prerequisite: WISE 1F90, VISA 1Q98 and 1Q99 or permission of the instructor.
Note: gallery visits and artists' presentations.
Completion of this course will replace previous assigned grade and credit obtained in WISE (VISA) 3M01.

WISE 3F95
Practicum
Theoretically grounded engagement with practical work relevant to feminism, activism and research.
Lectures, 6 hours alternating weeks; community placements.
Note: placements with non-profit community groups supplemented with in-class readings and research.

* WISE 3M00-3M10
Special Topics in Women's Studies
Topics selected on the basis of faculty expertise.
Prerequisite: WISE 2P90 or permission of the instructor.

WISE 3P20
Queer Communities and Popular Culture
(also offered as SOCI 3P20)
Growth of queer communities and their influence on popular print, audio and visual media. Topics include gay, lesbian, bisexual, two-spirited and transgendered (glbt) influence on contributions to a wide range of

culture including film, fashion, sport, theatre and cyberspace.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: WISE 1F90 and SOCI 1F90.

WISE 3P30

Sociology of Women, Work and Family

(also offered as LABR 3P30 and SOCI 3P30)

Examination of the transformation of women's paid labour force involvement and evaluation of personal and public strategies to address the paid labour force work/family conflict.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), LABR, SOCI (single or combined) majors and minors until date specified in the Registration guide.

Prerequisite: one of WISE 1F90, 2P00, LABR 1F90, SOCI 1F90.

WISE 3P41

Directed Studies I

Guided reading on a topic not covered in regular course offerings.

Restriction: students must have a minimum of 8.0 overall credits and permission of the Director.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. A faculty supervisor must be confirmed prior to registration.

WISE 3P42

Directed Studies II

Guided reading on a topic not covered in regular course offerings.

Restriction: students must have a minimum of 8.0 overall credits and permission of the Director.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. A faculty supervisor must be confirmed prior to registration.

WISE 3P43

Gender, Leisure and Families

(also offered as RECL 3P43)

Reciprocal relationships between leisure and gender, gender roles, and family structures. Issues of resistance and reconstruction of gender roles within families and leisure.

Lectures, 3 hours per week.

Restriction: students must hold a minimum of 7.0 overall credits.

Prerequisite: WISE 1F90, RECL 2P11 or permission of the instructor.

WISE 3P44

Gender and Sexuality in Childhood and Youth

(also offered as CHYS 3P44 and SOCI 3P44)

Historical, cross-cultural, and sociological

approaches to the development of gender identities and sexuality amongst children and adolescents. Topics include the role of families, schools, peers and state policies.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), CHYS (single or combined), CHYS BA (Honours)/BEd (Primary/Junior), CHYS BA (Pass)/BEd and SOCI (single or combined) majors, SOCI and WISE minors with a minimum of 8.0 overall credits or permission of the Department.

Prerequisite: one of WISE 2P90, 2P91, CHYS 2P38, SOCI 2P11 and 2P13.

WISE 3P49

Gender and Environment

(also offered as TREN 3P49)

Theoretical perspectives on feminism and ecophilosophies such as ecofeminism, deep ecology and social ecology. Implications for local, national and global policy.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), TREN majors, minors and certificate students with a minimum of 8.0 overall credits or permission of the instructor.

Prerequisite: one of WISE 2P90, 2P91, TREN 1F90 or permission of the instructor.

WISE 3P51

Gender and Society

(also offered as SOCI 3P51)

Gender as an organizing principle in society. The social construction of masculinity and femininity from historical and cross-cultural perspectives. Gender in principal institutions of Canadian society: economy, state, family, education and military. Issues include men and women in non-traditional occupations, women in the military, gender and power.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors, WISE, CRMR and SOCI minors until date specified in the Registration guide.

Prerequisite: one of WISE 1F90, 2P00, SOCI 1F90.

WISE 3P57

Psychology and Women

Social, personal and political implications of gender. Topics include theoretical perspectives on the study of gender differences, stereotypes, sexuality, biological influences, and issues related to achievement, intimacy, mental and physical health, power and justice.

Lectures, seminar, 3 hours per week.

Prerequisite: WISE 1F90 or PSYC 1F90.

Completion of this course will replace previous assigned grade and credit obtained in PSYC 3P57.

WISE 3P58

Women and Aging

(also offered as SOCI 3P58)

Examination of women's socially constructed experience of aging. Topics may include older women and poverty, aging women and the labour market, ageism and women, violence against older women, older women and disability.

Lectures, seminars 3 hours per week.

Restriction: open to WISE (single or combined) and SOCI (single or combined) majors or minors until date specified in the Registration guide.

Prerequisite: one of WISE 1F90, 2P00, SOCI 1F90.

Note: SOCI 2P57 is recommended.

* WISE 3P60

Gender Issues in Teaching and Learning

(also offered as EDUC 3P60)

Theoretical and practical aspects of feminist engagement with pedagogic processes within/against both traditional and alternative educational contexts; examination of levels and components of education from a variety of feminist theoretical perspectives; pedagogic and political consequences of ideology critique and alternative practices.

Lectures, seminar 3 hours per week.

Restriction: open to WISE (single or combined) majors and minors until date specified in the Registration guide. Students must have a minimum of 6.0 overall credits.

Prerequisite: WISE 1F90, 2P00 or permission of the instructor.

WISE 3P61

Gender and Society in Ancient Mediterranean Cultures

(also offered as CLAS 3P61)

Ancient constructions of femininity and masculinity and their relationships to the social, political and legal systems of the Greco-Roman world. Topics include the body, sexuality, male and female identities.

Lectures, seminars, 3 hours per week.

Prerequisite: one of WISE 1F90, 2P61, CLAS 1P91, 1P92.

WISE 3P62

The Ancient Household

(also offered as CLAS 3P62)

Social structure, gender and class roles, religious rituals; Mediterranean domestic space and community relationships, urban infrastructure and social networks.

Lectures, seminar, 3 hours per week.

Prerequisite: one credit from WISE 1F90, CLAS 1P91, 1P92, 2P61.

WISE 3P63

Contemporary Feminist Philosophy

(also offered as PHIL 3P63)

Feminist thinkers and the philosophical debates

which inform contemporary feminist theory including, but not limited to, questions of race, class, gender/sex, power and post-colonialism. Thinkers may include Alcoff, Butler, de Beauvoir, Code, Chodorow, Fraser, Gilligan, Harding, Hartsock, Irigaray, Kristeva, MacKinnon and Spivak.
Prerequisite: one of WISE 1F90, 2P94, PHIL 1F90, 1F91, 1F93, 1F94 or permission of the instructor.

WISE 3P65

Health Issues for Women and Girls

Feminist analysis of definitions and dimensions of "health", socio-cultural influences on perceptions of health, and sites of cognitive and social control regarding health.

Lectures, seminar 3 hours per week.

Restriction: open to WISE (single or combined) majors and minors until date specified in the Registration guide. Students must have a minimum of 6.0 overall credits.

Prerequisites: WISE 1F90 and 2P00 or permission of the instructor.

WISE 3P67

Feminist Cultural Theory

Relation between culture and the lives of diverse women. Intersections between a wide array of cultural forms, artifacts and practices and the ways in which gender is experienced and lived. Issues include the production of subjectivity, knowledge and power, the production of identities, institutional constructions of gender, resistance and agency.

Seminar 3 hours per week.

Prerequisite: one-half WISE credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

WISE 3P71

Gender and Politics

(also offered as POLI 3P71)

Theoretical and practical issues in the relationships among gender, sex and politics, such as sexual equality, and its nature and implications for public and private life.

Lectures, seminar, 3 hours per week.

Prerequisite: WISE 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

WISE 3P72

Women in Politics

(also offered as POLI 3P72)

Women's participation and influence in the political institutions, processes and policies of modern states emphasizing contemporary Canada.

Lectures, seminar, 3 hours per week.

Prerequisite: WISE 1F90, one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

WISE 3P74

Geography and Gender

(also offered as GEOG 3P74)

Work of feminist geographers. Relationships between gender and space across scales, including scale of the body, domestic space, public spaces, the city, nation and globally.

Lectures, seminar, 4 hours per week.

Restriction: open to GEOG (single or combined), GEOG (Honours)/BEd (Intermediate/Senior) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P03, 2P06, WISE 2P90, 2P91 or permission of the instructor.

WISE 3P80

Environmental Justice

(also offered as SOCI 3P80)

Historical review of relationships between environment and human societies from various theoretical perspectives. Inequalities and social justice struggles. Topics may include sustainability, biodiversity, eco-tourism, population, consumerism, and environmental management.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors and minors until date specified in Registration guide.

Prerequisite: WISE 1F90 or SOCI 1F90.

WISE 3P82

Women and Crime

(also offered as SOCI 3P82)

Feminist criminological theory and selected topics on crime, prisons and the Canadian criminal justice system as they pertain to women. Topics may include female crime rates, violence by and against women, prostitution, drug use, "girl gangs," women's prisons, women police officers, women in the security sector, women and terrorism, and Domestic Violence Courts.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), SOCI (single or combined) majors, WISE, CRMR and SOCI minors until date specified in Registration guide.

Prerequisite: one of WISE 1F90, 2P00, SOCI 2P61.

Completion of this course will replace previous assigned grade and credit obtained in SOCI 3V82.

WISE 3P90

Contemporary Feminist Thought

Intersections of contemporary and feminist theories as applied to the critical analysis of such issues as pornography, sexuality, humour, work, social inequities, intimacy and identity politics. Controversies and debates among feminists

around the world.

Seminar, 3 hours per week.

Prerequisite: WISE 2P90 or permission of the instructor.

WISE 3P91

Contemporary Feminist Research Methods

Influence of various feminist and contemporary theoretical orientations on methodologies of cultural, political and rhetorical analysis, and critique. Relationships between theory and research methods, and intersections of feminist theories with traditional practices in the process of developing potential research projects.

Seminar, 3 hours per week.

Prerequisite: WISE 3P90 or permission of the instructor.

* WISE 3P92

Advanced Seminar in Eco-Feminism

(also offered as SOCI 3P92)

Local, national, and/or global processes relating to struggles for equality and environmental crises from a social science perspective.

Seminar, 3 hours per week.

Restriction: open to WISE (single or combined) and SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to Year 4 (honours).

Prerequisite: one of WISE 1F90, 2P00, SOCI 1F90.

Completion of this course will replace previous assigned grade and credit obtained in WISE(SOCI) 3V98.

WISE 3P93

Gender and Language

(also offered as LING 3P93)

Role of language in the construction and maintenance of contemporary masculinities and femininities.

Lectures, seminar, 3 hours per week.

WISE 3P94

Gender and the Humanities

Key issues scrutinized by Women's Studies scholars in the Humanities, including the gendering of knowledge-production, debates around identity politics and the effects of the current crises in the Humanities on female students and female professors.

Seminar, 3 hours per week.

Prerequisite: one WISE credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

* WISE 3P96

Women, Men and the Body

(also offered as PEKN 3P96)

Critical and reflective examination of historical, philosophical, socio-cultural and religious influences on the body from a variety of feminist perspectives.

Lectures, tutorial, lab, 3 hours per week.

Prerequisite: WISE 1F90 or PEKN 1P93 or permission of the instructor.
Note: experiential work (somatic, movement, expressive) is part of the course experience.

WISE 3P97

Gender, Race and Class in Cinema to the 1960s

(also offered as COMM 3P97 and FILM 3P97)
Representation of gender, sexuality, race, and class, and implications of spectatorship and ideology.

Lectures, seminar, 3 hours per week, plus weekly film lab.

Prerequisite: one of WISE 2P91, FILM 2F90, 2P20 and 2P21 or permission of the instructor.

WISE 3P98

Gender, Race and Class in Contemporary Cinema

(also offered as COMM 3P98 and FILM 3P98)
Representation of gender and sexuality, race and class via ideology, feminism, queer theory, and spectatorship in film and video texts since the 1960s.

Lectures, seminar, 3 hours per week, plus weekly film lab.

Prerequisite: one of WISE 2P91, FILM 2F90, FILM 2P20 and 2P21 or permission of the instructor.

WISE 3P99

Ethical Questions in Feminism

Debates on bioethics, technology, sexual consent and the law from a variety of feminist philosophical perspectives.

Seminar, 3 hours per week.

Prerequisite: WISE 2P90, 2P91 or the permission of the instructor.

WISE 3V20-3V29

Advanced Studies in Writing by Women

(also offered as ENGL 3V20-3V29)

Selected topics in women's writing at an advanced theoretical and methodological level.
Prerequisite: WISE 1F90 and one-half credit from WISE 2V90 to 2V99, two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or above or permission of the instructor.

WISE 3V90-3V99

Special Topics in Women's Studies

Topics selected on the basis of faculty expertise.
Prerequisite: WISE 2P90.

WISE 4F50

Structuring of Gender Privilege

(also offered as SOCI 4F50)

Selected issues related to the restructuring of gender privilege.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined)

and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 2P90 or 3P51.

Completion of this course will replace previous assigned grade and credit obtained in WISE (SOCI) 4P51.

WISE 4P01

Latin American Women's Perspectives

(also offered as SPAN 4P01)

Cultural production of Latin American women and their impact on society; wide selection of media including testimonial writing, oral history, narrative, drama, poetry, visual arts, music. Innovations in popular and literary culture allowing women to rearticulate relationships of power.

Lectures, seminar, 3 hours per week.

Prerequisites: WISE 1F90 or SPAN 2P20; SPAN 2P19 (2P21) or permission of the instructor.

Note: given in English.

WISE 4P22

Education and Equity

(also offered as SOCI 4P22)

Selected issues in education in Canada and globally. Topics may include access, representation, experience, and careers of students, teachers and faculty; student cultures; student supervision; efforts to alter pedagogy and curriculum; and implications of globalization.

Seminar, 3 hours per week.

Restriction: open to WISE (single or combined) and SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Note: SOCI 2P22 recommended.

WISE 4P31

Women, Work and Unions

(also offered as LABR 4P31 and SOCI 4P31)
Theoretical and research developments concerning women's paid and unpaid work.

Topics may also include union activism, collective bargaining priorities and related government policies.

Seminar, 3 hours per week.

Restriction: open to SOCI (single or combined), LABR and WISE (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisite: one of SOCI 1F90, LABR 1F90, WISE 1F90.

WISE 4P32

Sociology of Work

(also offered as LABR 4P32 and SOCI 4P32)
Theoretical and research developments in the sociology of work. Topics may include the

impact of technological innovation on the labour process, reconceptualizations of work and leisure, changes in the gendered nature of work, role of the contemporary labour movement, and international perspectives on labour and the labour force.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), LABR and SOCI (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two LABR or SOCI credits or permission of the Department Administrator.
Note: SOCI 2P32 recommended.

Completion of this course will replace previous assigned grade and credit earned in SOCI (LABR) 4F30.

WISE 4P41

Directed Studies III

Guided reading on a topic not covered in the regular course offerings.

Restriction: students must have a minimum of 12.0 overall credits and permission of the Director.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. A faculty supervisor must be confirmed prior to registration.

WISE 4P42

Directed Studies IV

Guided reading on a topic not covered in the regular course offerings.

Restriction: students must have a minimum of 12.0 overall credits and permission of the Director.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial. A faculty supervisor must be confirmed prior to registration.

WISE 4P51

Gender and Society

(also offered as SOCI 4P51)

Selected issues in gender and society. Topics may include feminist theories, work, family, state, popular culture, race, militarism and violence.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined) and SOCI (single or combined) majors until date specified in the Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two WISE or SOCI credits or permission of the Department Administrator.
Note: WISE 3P51 recommended.

Completion of this course will replace previous assigned grade and credit earned in WISE (SOCI) 4F50.

WISE 4P53

Masculinities, Culture and Economy

(also offered as LABR 4P53 and SOCI 4P53)

Theoretical and empirical issues in the study of relationships between masculinities and cultural and economic processes and structures. These may include ethnicity, racialization, sexuality, nationalism, popular culture, leisure, changes in work and the labour market, class formation, and the regional identity.

Seminar, 3 hours per week.

Restriction: open to WISE (single or combined), LABR and SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI credits or permission of the Department Administrator.

WISE 4P95

Gender and Sport

(also offered as PEKN 4P95)

Historical and current issues informed by gender studies, theories and politics. The shaping of experiences through the practices of sport and gender.

Lectures, seminar, 3 hours per week.

Restriction: open to WISE (single or combined), BKin, BPhEd, BPhEd (Honours)/ BEd (Intermediate/Senior), BPhEd (Honours)/ BEd (Primary/Junior) and BSc (Kin) and majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

WISE 4Q41

Social Policy

(also offered as SOCI 4Q41)

Canadian and international social policy issues. Topics may include aboriginal peoples, women and public policy, labour relations, health care delivery, multiculturalism, Canadian federalism, family policy.

Seminar, 3 hours per week.

Restriction: open to WISE (single or combined) and SOCI (single or combined) majors until date specified in Registration guide. Students must have approval to year 4 (honours).

Prerequisite: WISE 1F90, SOCI 1F90 or permission of the instructor.

WISE 4V50-4V69

Special Topics in Women's Studies

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Mike Plyley
Virginia Reh
Kirill Samokhin
Adonis Skandalis
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Marie Louise Vanderlee
Michelle Webber
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Director, International Services: **John F. Kaethler**, BA *Brock*, BEd *OTEC*

Director, Recreation Services: **Karen McAllister-Kenny**, BSc *Waterloo*, MEd *Brock*

Director, Residences: **James R. Fleming**, BSc *Trent*, BEd *Queen's*

Director, Student Awards and Financial Aid: **Rico Natale**

Director, Student Development Centre: **Cathie Closs**, BA, BEd, MEd *Queen's*

Director, Telecommunications and Network Services, **Edward Blazinski**

Director, University Communications: **Doug Earle**, CFRE

Manager, Office of Human Rights and Equity Services: **Lynne Bubic**, BA *Brock*, LLB *Western, Ontario*

Senior Administrative Officer, Faculty of Education: **Joanne E. Smith**, BA *Brock*, MLS *SUNY, Buffalo*

Faculty Distinction

Alumni Association Teaching Award Recipients:

1980
William Matheson
Political Science

1981
A Victoria Soady
Classics

1982
Wayne Jolly
Earth Sciences

1983
Donald Ursino
Biological Sciences

1984
Angus Somerville,
English Language and Literature

1985
Martha Husain
Philosophy

1986
Norah Carlsen
Psychology

1987
Alan Grthur
History

1988
John Benjafield
Psychology

1989
Clarke Thomson
Geography

1990
Eric Muller
Mathematics

1991
Mary Frances Richardson
Chemistry

1992
Joan Preston
Psychology

1993
Lorne Adams
Physical Education

1994
Joan Nicks
Communications, Popular Culture and Film

1995
David DiBattista
Psychology

1996
Marilyn Rose
English Language and Literature

1998
Leslie Boldt-Irons
Modern Languages, Literatures and Cultures

1999
Roberta Robb
Economics

Brock Award for Distinguished Research and Creative Activity

1994
R Peter Rand
Biological Sciences

1995
Herbert Holland
Chemistry

1996
Kenneth Kernaghan
Political Science

1997
Sidney Jegalowitz
Psychology

1998
Howard Eell
Mathematics

1999
Barry Grant
Communications, Popular Culture and Film

2000
Robert Ogilvie
Psychology

2001
Sandra Beckett
Modern Languages Literatures and Cultures

2002
Mohammed Dore
Economics

2003
Douglas Bruce
Biological Sciences

2004
Jack Adams-Webber
Psychology

2005
Ernest Biktimirov
Business

2006
John Hay
Community Health Sciences

Nota Klentrou
Physical Education and Kinesiology

2007
Stefan Brudzynski
Psychology

Brock Award for Distinguished Teaching

1998
John Lye
English Language and Literature

1999
Barry Joe
Centre for Teaching Learning and Educational Technologies/Modern Languages, Literatures and Culture, Communications, Popular Culture & Film

2000
Anna Lathrop
Physical Education

2001
Stefan Brudzynski
Psychology

2002
Maureen Connolly
Physical Education and Kinesiology

2003
John Mitterer
Psychology

2004
Ken Kernaghan
Political Science

2005
Tomas Hudlicky
Chemistry

2006
Zopito Marini
Child and Youth Studies

2007
Dorothy Griffiths
Child and Youth Studies

OCUFA Award Recipients

1986
Donald Ursino
Biological Sciences

1991
Mary Frances Richardson
Chemistry

1992
Patricia Cranton
Education

1994
Lorne Adams
Physical Education

1995
Ann Duffy
Sociology

1995
Eric Muller
Mathematics

1998
Leslie Boldt-Irons
Modern Languages, Literatures and Cultures

2000
Anna Lathrop
Physical Education

2003
John Mitterer
Psychology

3M Teaching Award Recipients

1989
Clarke Thomson
Geography

1991
Donald Ursino
Biological Sciences

2000
Barry Joe
Centre for Teaching Learning and Educational Technologies/Modern Languages, Literatures and Culture, Communications, Popular Culture & Film

2001
Anna Lathrop
Physical Education and Kinesiology

2003
Maureen Connolly
Centre for Teaching Learning and Education Technologies

2004
Lorne Adams
Physical Education and Kinesiology

John Mitterer
Psychology

2006
Zopito Marini
Child and Youth Studies

2007
David DiBattista
Psychology

CASE Canadian Professor of the Year

1992
Mary Frances Richardson
Chemistry

Lieutenant Governor's Award for Teaching Excellence

1993
Patricia Cranton
Education

Members of the Royal Society

1994
R. Peter Rand
Biological Sciences

1998
Kenneth Kernaghan
Political Science

Chevalier dans l'Ordre des Palmes Académiques
1992
Alexandre Amprimoz,
Modern Languages, Literatures and Cultures

1993
Leonard Rosmarin
Modern Languages, Literatures and Cultures

1995
Sandra Beckett
Modern Languages, Literatures and Cultures

Officier dans L'Ordre des Palmes Académiques

2001
Leonard Rosmarin
Modern Languages, Literatures and Cultures

Royal Society of Canada

2004
Sandra Beckett
French

Consul General of Japan
Conferred the Order of the Rising Sun

2004
Dr. Raymond Moriyama
Chancellor

Order of Ontario

2006
Dorothy Griffiths
Child and Youth Studies

Leadership in Faculty Teaching Provincial Awards

2007
Ernest N. Biktimirov
Finance, Operations and Information Systems

Anna H. Lathrop
Applied Health Sciences/Physical Education

Barry W. K. Joe
Centre for Digital Humanities/Communications, Popular Culture/Film

Faculty and Librarians

Sharon M. Abbey, BA *Toronto*, MEd *Brock*, EdD *Toronto*
Professor of Education and Women's Studies

Lorne J. Adams, BA, MA *Western Ontario*, EdD *SUNY, Buffalo*
Associate Professor of Physical Education and Kinesiology

Ian L. Adamson, BSc, MBA *McMaster*, PhD *Waterloo, CA*
Associate Professor of Accounting

Allan Adkin, BHK *Windsor*, MSc, PhD *Waterloo*
Associate Professor of Physical Education and Kinesiology

Robert John Alexander, BJ *Carleton*, BA *York (Canada)*, MA, PhD *McMaster*
Associate Professor of English Language and Literature

James Robert Allard, BA *Algoma*, MA, PhD *Waterloo*
Associate Professor of English Language and Literature

Natalie Alvarez, BA *Simon Fraser*, MA *British Columbia*, PhD *Toronto*
Assistant Professor in Dramatic Arts

Alexandre L. A. Amprimoz, BA, MA *Windsor*, PhD *Western Ontario*, BSc *Brock*
Professor of French

Stephen C. Anco, BSc *California Institute of Technology*, MSc, PhD *Chicago*
Professor of Mathematics

Denise Armstrong, BA *West Indies*, BA *York*, MEd *OISE/Toronto*, PhD *Toronto*
Assistant Professor of Education

Michael Armstrong, BSc *Royal Military College*, MA *Ottawa*, PhD *British Columbia*
Associate Professor, Finance

Karen Arnell, BA *Calgary*, MA, PhD *Waterloo*
Associate Professor of Psychology

Lynn Arner, BA *McMaster*, MA *Manitoba*, MA, PhD *Rochester*
Assistant Professor of Women's Studies and English

Michael Ashton, BSc *Toronto*, MA, PhD *Western Ontario*

Professor of Psychology

Jeffrey K. Atkinson, BSc *Trent*, PhD *Ottawa*
Professor of Chemistry

Barbara J. Austin, BA *McMaster*, MA *Bishop's*, MBA, PhD *Concordia*
Professor of Strategic Management

Mohamed Ayadi, BComm, *HEC Tunisia*, MSc, *HEC School of Business, Montréal*
Associate Professor of Finance

Anteneh Ayanso, BA *Addis Ababa*, MBA *Syracuse*, PhD *Connecticut*
Assistant Professor of Finance

Jerzy A. Barchanski, MSc, PhD *Silesian Technical University, Gliwice*
Associate Professor of Computer Science

A. Tansu Barker, BSEE *Robert College*, MSEE *St. Louis*, MBA *Wake Forest*, DBA *Istanbul*
Professor of International Business and Marketing

Martha Barnes, BA *Brock*, MA *Indiana*, PhD *Waterloo*
Assistant Professor of Recreation and Leisure Studies

Nick Baxter-Moore, BA *Manchester*, MSc *London School of Economics*, PhD *Carleton*
Associate Professor of Communication, Popular Culture and Film

Darlene Bay, BA *Monterey Institute*, MSc, PhD *Washington State*
Associate Professor of Accounting

Rodger J. Beatty, BMus *Western Ontario*, BEd *Toronto*, MEd *Queen's*, EdD *Toronto*
Associate Professor of Education
Associate Dean, Faculty of Education

Sandra L. Beckett, BA *Wilfrid Laurier*, MA, PhD *Manitoba*
Professor of French

Kathryn Belicki, BA *Brock*, PhD *Waterloo*
Professor of Psychology

Hatem Ben Ameer, BSc *Tunis*, PhD *Montréal*
Associate Professor of Finance

Hichem Ben-El-Mechaiekh, BSc, MSc, PhD *Montréal*
Professor of Mathematics

Sheila M. Bennett, BEd, BSpecEd *Memorial*,

MEd, EdD, *Toronto*
Professor of Education

Jennifer Berardi, BA, MA *Brock*
Lecturer of Political Science

Leslie Berger, BA, *Laurier*, PhD *Waterloo*
Assistant Professor of Accounting

Michael Berman, BA *Binghamton*, PhD *SUNY Buffalo*
Associate Professor of Philosophy

Gregory Betts, BA *Queen's*, MA *Victoria*, PhD *York*
Assistant Professor of English Language and Literature

Kate Bezanson, BA *Trent*, MA, PhD *York*
Associate Professor of Sociology

Michael Bidochka, BSc *Brock*, MSc *Regina*, PhD *Saskatchewan*
Professor of Biological Sciences

Diane Bielicki, BA *Brock*, MA *McMaster*
Lecturer of German

Ernest N. Biktimirov, *Methodologie Tashkent Institute*, MBA, PhD *Kentucky*
Associate Professor of Finance

Irene M. F. Blayer, BA *Brock*, MA, PhD *Toronto*
Professor of Modern Languages, Literatures and Cultures

May Bletz, BA *Leiden*, MA *Brandeis*, PhD *New York*
Assistant Professor of Spanish

R. Terrance Boak, BSc, MEd *Manitoba*, PhD *Calgary*
Professor of Education
Provost and Vice-President, Academic

Anthony F. Bogaert, BA, MA, PhD *Western Ontario*
Professor of Community Health Sciences and Psychology

Jeffrey Boggs, BA, MA *Indiana*, PhD *University of California at Los Angeles*
Assistant Professor of Geography

Leslie A. Boldt-Irons, BA *Brock*, MA, PhD *SUNY, Buffalo*
Professor of French

John Bonnett, BA *Western Washington*, MA, PhD *Ottawa*
Assistant Professor of History and Digital Humanities

Angela
Assistant

Sandra
BEd,
Assoc

Shyla
Dalhousie
Prof

Jacques
PhD
Ass
Po

Cliff
F
A

U

MA, PhD

Simon Fraser
and Physics

PhD Lodz
ological

, MA

Toronto
d Science

Laval, PhD

ematics

, MA, PhD

ology

rid Laurier, PhD

amberst College, PhD

iences

Manitoba, MA,

olitical Science

MA Queen's, PhD

Classics

PhD Western Ontario
Sciences

PhEd, BBA, MEd,

Child and Youth

BA, MA Chinese HK,

of Philosophy

BA Creighton, MA
Y, PhD Arizona

of English Language and

jee, MOM Indian Institute
) Lally School of

Management, Rensselaer Polytechnic Institute,
TROY, NY
Assistant Professor, Finance, Operations and
Information Systems

Richard J. Cheel, BA *McMaster*, MSc
Ottawa, PhD *McMaster*
Professor of Earth Sciences
Associate Dean, Faculty of Mathematics and
Science

Lorenzo Cherubini, BA *McMaster*, BEd
Brock, MA *McMaster*, PhD *Southern*
Queensland
Assistant Professor of Education

Stephen Cheung, BSc *British Columbia*, MSc
Simon Fraser, PhD *Toronto*
Associate Professor of Physical Education and
Kinesiology

Danny Cho, BA, BSc, MEng *Toronto*, PhD
McMaster
Professor of Information Systems and
Operations Management

Sanghee Chun, BSc, MEd *Myongji U. Seoul,*
Korea, MSc, PhD *Indiana*
Assistant Professor of Recreation and Leisure
Studies

Darlene Ciuffetelli Parker, BA, BEd
Toronto, MEd, PhD *OISE/Toronto*
Assistant Professor of Education

Carmela Colella, BSc, MA, PhD *Toronto*
Assistant Professor of Modern Languages,
Literatures and Cultures

Athena Coleman, BA *Windsor*, MA *Brock*,
PhD *Memphis*
Assistant Professor of Philosophy

Rosemary Condillac, BA *York*, MA *Toronto*,
PhD *Toronto*
Assistant Professor of Disability Studies

Tim Conley, BA *York*, MA *McGill*, PhD
Queen's
Associate Professor of English Language and
Literature

Maureen Connolly, BPE, MPE *Memorial*,
PhD *Alberta*
Professor of Physical Education and
Kinesiology and Child and Youth Studies

Janet Conway, BA *Memorial, Newfoundland*,
MA *Toronto*, PhD *York*
Associate Professor of Sociology

Gail Lynn Cook, BSc *Ramapo*, CPA
Louisiana, MS *New Orleans*, PhD *Utah*
Associate Professor of Accounting

Nancy Cook, BA *Brock*, MA, PhD *York*
Assistant Professor of Sociology

Assistant Professor of Accounting

Hilary Brown, BPHE *Toronto*, BEd *Western*,
MEd *Brock*
Lecturer of Education

- John T. Corlett**, BSc *Brock*, MSc, PhD *Simon Fraser*
Professor of Physical Education and Kinesiology
Dean, Faculty of Applied Health Sciences
- June Corman**, BA *Regina*, MA, PhD *Toronto*
Professor of Sociology
- Jarold Cosby**, BSc *Brock*, MA *Saskatchewan*, PhD *McMaster*
Assistant Professor of Physical Education and Kinesiology
- Kimberly Cote**, BA *Brock*, MA *Toronto*, PhD *Ottawa*
Associate Professor of Psychology
- Laura Cousens**, BA *Waterloo*, MA *Ottawa*, PhD *Alberta*
Associate Professor of Sport Management
- David A. Crandles**, BSc *Western Ontario*, MSc *Ottawa*, PhD *McMaster*
Associate Professor of Physics
- Keri Cronin**, BA *Alberta*, MA, PhD *Queen's*
Assistant Professor of Visual Arts
- Carmen W. Cullen**, BA *BComm*, MBA *Manitoba*, PhD *Western Ontario*
Associate Professor of Marketing
- Louis Culumovic**, BA, BSc, MSc, *Certificate in Business Administration Ottawa*, MSc, PhD *Western Ontario*, CA
Associate Professor of Accounting
- Donald A. Cyr**, BSc *Concordia*, MBA *Saskatchewan*, MA, PhD *Alberta*
Associate Professor of Finance
Associate Dean, Faculty of Business
- Daryl Dagesse**, BSc, MSc, PhD *Guelph*,
Assistant Professor of Geography
- Christine Daigle**, BA *Concordia*, MA, PhD *Montréal*
Associate Professor of Philosophy
- Rohit Dalvi**, BA *Hawaii*, MA *Pune, India*, PhD *Bombay, India*
Assistant Professor of Philosophy
- Martin Danahay**, BA, MA *Cambridge*, MA, PhD *Brandeis*
Professor of English Language and Literature
- Andrew V. Dane**, BA *Queen's*, MA, PhD *Toronto*
Associate Professor of Psychology
- Hevina Dashwood**, BA *Toronto*, MA *McGill*, PhD *Toronto*
Associate Professor of Political Science
- Patricia A. Debly**, BMus *Western Ontario*, MMus *Catholic University of America*, MA, PhD *Victoria*
Associate Professor of Music
- Dirk DeClercq**, BSc, MA *Ghent*, PhD *Minnesota*
Associate Professor of Organizational Behaviour
- Nancy H. DeCourville**, BA *New Brunswick*, MA, PhD *Waterloo*
Professor of Psychology
- Danuta de Grosbois**, BA, MA, MA *Warsaw School of Economics, Warsaw, Poland*, PhD *Carleton*
Assistant Professor of Tourism and Environment
- Vincenzo De Luca**, BSc *Concordia*, MSc *Queen's*, PhD *Concordia*
Professor of Biological Sciences
- Lynn Dempsey**, BA *McMaster*, MA, PhD *Western Ontario*
Assistant Professor of Applied Linguistics
- Shen Deng**, BA *Huazhong*, MBA, PhD *Boston*
Professor of Marketing and International Business
- Charles Després**, BSc, MSc, PhD *Montréal*
Associate Professor of Biological Sciences
- David DiBattista**, AB *Brown*, MA, PhD *Waterloo*
Professor of Psychology
- Karin Di Bella**, BMus *Western Ontario*, MMus *Washington*, DMA *British Columbia*
Associate Professor of Music
- Ann-Marie DiBiase**, BA, BEd, MEd *Brock*, PhD *SUNY, Buffalo*
Assistant Professor of Education
- Adam Dickinson**, BA *Ottawa*, MA *New Brunswick*, PhD *Alberta*
Assistant Professor of English Language and Literature
- Robert W. Dimand**, BA *McGill*, MA, MPhil, PhD *Yale*
Professor of Economics
- Tony DiPetta**, BA *McMaster*, BEd *Toronto*, MEd *Brock*, PhD *Toronto*
Associate Professor of Education
- David S. Ditor**, BSc *Western, Ontario*, MSc, PhD *McMaster*
Assistant Professor of Physical Education and Kinesiology
- Eric Dolansky**, BA *Ryerson*, MBA *Western*, PhD *Western*
Assistant Professor of Marketing, International Business & Strategy
- Fanny L. Dolansky**, BA *Trent*, MA *Victoria*, PhD *Chicago*
Assistant Professor of Classics
- Maureen E. Donnelly**, BA *McMaster*, LLB, LLM *Toronto*, CA
Associate Professor of Accounting
- Mohammed H. I. Dore**, BA *Zambia*, MPhil, DPhil *Oxford*
Professor of Economics
- Susan M. Drake**, BA *Western Ontario*, MEd *Brock*, PhD *Toronto*
Professor of Education
- Juris Dreifelds**, BScF, MA, PhD *Toronto*
Associate Professor of Political Science
- Michael D. Driedger**, BA *British Columbia*, MA, PhD *Queen's*
Associate Professor of History and Great Books Liberal Studies
- Travis Dudding**, BSc *Virginia Technology*, MSc, PhD *John Hopkins*
Associate Professor of Chemistry
- Ann D. Duffy**, BA, MA, PhD *McMaster*
Professor of Sociology
- Tim Dun**, BSc *DeVry Institute of Technology*, MA *Montana*, PhD *Iowa*
Assistant Professor of Communication, Popular Culture and Film
- Thomas Dunk**, BA *Alberta*, MA, PhD *McGill*
Professor of Sociology
Dean, Faculty of Social Sciences
- Paul Dunn**, BA, MA *Toronto*, DBA *Boston*, CA
Associate Professor of Accounting
- Ivo Düntsch**, Dipl. Math, *Dr.rer.nat, habil, Berlin*
Professor of Computer Science
- Diane P. Dupont**, BA *Carleton*, MA *Toronto*, PhD *British Columbia*
Professor of Economics
- Veena D. Dwivedi**, BSc *McGill*, PhD *Massachusetts*
Assistant Professor of Applied Linguistics
- Donald H. Dworet**, BA *SUNY, Buffalo*, MEd *Toronto*, PhD *SUNY, Buffalo*
Associate Professor of Education

Jane Dywan, BA *Brock*, PhD *Waterloo*
Professor of Psychology

Fayez A. Elayan, BSc *University of Jordan*,
MBA *Wisconsin*, PhD *Louisiana State*
Associate Professor of Accounting

Tamara El-Hoss, BA *York*, MA, PhD
Toronto
Assistant Professor of French

Anne Elliott, BA, MEd *Brock*, EdD *Toronto*
Professor of Education

Joseph Engemann, BSc, BEd, MEd *Brock*,
PhD *SUNY, Buffalo*
Assistant Professor of Education

Ifeanyi Ezeonu, BSc *Anambra State*
University of Technology, MPhil *Cambridge*,
MA *Leeds*, PhD *Toronto*
Assistant Professor of Sociology

Bareket Falk, BEd *McGill*, MA *Tel Aviv*,
PhD *McMaster*
Associate Professor of Physical Education and
Kinesiology

David Fancy, BA *Mount Allison*, PhD *Trinity*
College, Dublin
Assistant Professor of Dramatic Arts

Thomas S. C. Farrell, BC *University College*,
Dublin, MS.Ed *Southern California*, PhD
Indiana
Professor of Applied Linguistics

Babak Farzad, BSc *Sharif University of*
Technology, MSc, PhD *Toronto*
Assistant Professor of Mathematics

Brent Faught, BPhEd, BEd *Brock*, MSc
Ottawa, PhD *Toronto*
Associate Professor of Community Health
Sciences

Xavier Fazio, BSc, BEd, *Toronto*, MEd, EdD
OISE/Toronto
Assistant Professor of Education

Corrado J. A. Federici, BA, MA, PhD
Toronto
Professor of Italian

Maurice Feldman, BA *New York*, PhD
McMaster
Professor of Applied Disabilities Studies

Sandra M. Felton, BA *Western Ontario*, PhD
SUNY Buffalo, CA
Associate Professor of Accounting

David A. Fennell, BES, MA *Waterloo*, PhD
Western Ontario
Professor of Tourism and Environment

Candace Figg, BS *North Texas State U.*,
MLS, PhD *Texas*
Assistant Professor of Education

Hilary Findlay, BA, BPE *McMaster*, MSc
Oregon, PhD, LLB *Alberta*
Associate Professor of Sport Management

Gregory C. Finn, BSc *Queen's*, MSc *Western*
Ontario, PhD *Memorial*
Associate Professor of Earth Sciences
Vice-Provost and Associate Vice-President,
Academic

Scott Forrester, BA *Brock*, MA, PhD *Indiana*
Associate Professor of Recreation and Leisure
Studies

Derek Foster, BA *Queen's*, MA *Wilfrid*
Laurier, MA, PhD *Carleton*
Assistant Professor of Communication,
Popular Culture and Film

Nancy R. Francis, BEd *Alberta*, MSc *Oregon*,
EdD *Toronto*
Associate Professor of Physical Education and
Kinesiology

Margot Francis, BA *University of Western*
Ontario, MEd, PhD *OISE, Toronto*
Assistant Professor of Women's Studies and
Sociology

Tami J. Friedman, BA *Wisconsin*, MA, PhD
Columbia
Assistant Professor of History

Jan Frijters, BSc *Toronto*, MA, PhD *Guelph*
Associate Professor of Child and Youth
Studies

Gail Frost, BPE *McMaster*, BEd *Toronto*,
MEd *Temple University, PA*, PhD *McMaster*
Associate Professor of Physical Education and
Kinesiology

Frank Fueten, BSc, MSc *McMaster*, PhD
Toronto
Professor of Earth Sciences

Henryk Fuks, BSc, MSc, PhD *Illinois*
Associate Professor of Mathematics

Christopher A. Fullerton, BA *Nipissing*, MA
Queen's, PhD *Saskatchewan*
Assistant Professor of Geography

David A. Gabriel, BEd *McGill*, MSc
Massachusetts, PhD *McGill*
Associate Professor of Physical Education and
Kinesiology

Tiffany Gallagher, BA/BEEd, MEd, PhD
Brock
Assistant Professor of Education

Kimberly L. Gammage, BA *Queen's*, MA
North Carolina, PhD *Western Ontario*
Associate Professor of Physical Education and
Kinesiology

Hugh Gayler, BA *Leicester*, MA *London*
School of Economics, PhD *British Columbia*
Professor of Geography

Greg Gillespie, BA *Wilfrid Laurier*, BEd
Canisius, Buffalo, NY, MEd *Brock*, PhD
Western, Ontario
Assistant Professor of Communication,
Popular Culture and Film

Allison M. J. Glazebrook, BA *Alberta*, MA
Queen's, PhD *Buffalo, SUNY*
Associate Professor of Classics

Daniel G. Glenday, BA *Sir George Williams*,
MA *McGill*, PhD *Carleton*
Professor of Sociology and Centre for Labour
Studies

Dawn E. Good, BSc *Trent*, PhD *McMaster*
Associate Professor of Psychology

Jennifer Good, BA *British Columbia*, MA
York, PhD *Cornell*
Assistant Professor of Communication,
Popular Culture and Film

Heather L. Gordon, BSc *Trent*, MSc *Brock*,
PhD *Guelph*
Associate Professor of Chemistry

Neta Gordon, BA *Toronto*, MA, PhD
Queen's
Associate Professor of English Language and
Literature

Kevin Gosine, BA *York*, MA *Toronto*, PhD
York
Assistant Professor of Sociology

Barry K. Grant, BA, PhD *SUNY, Buffalo*
Professor of Communication, Popular
Culture and Film

Elizabeth Greene, AB, MA, PhD *Princeton*
Assistant Professor of Classics

Shelley Griffin, BMus *PEI*, MEd, PhD
Alberta
Assistant Professor of Education

Dorothy Griffiths, BA *Brock*, MA *Guelph*,
PhD *Toronto*
Professor of Child and Youth Studies
Associate Dean, Faculty of Social Sciences

Ann Marie Guilmette, BPHE, MPE, PhD
Windsor
Associate Professor of Recreation and Leisure
Studies

- Carolyn H. Hafer**, BA *McGill*, MA, PhD *Western Ontario*
Professor of Psychology
- Yousef Haj-Ahmad**, BSc, MSc *Brock*, PhD *McMaster*
Professor of Biological Sciences
- Rosemary Hale**, BA *Kent State*, MA *Eastern Michigan*, MTS, PhD *Harvard*
Professor of History
Dean, Faculty of Humanities
- Paul Hamilton**, BA *Brock*, MA *McMaster*, PhD *Alberta*
Associate Professor of Political Science
- Thad A. Harroun**, BA *California*, MSc, PhD *Rice*
Assistant Professor of Physics
- Debra Harwood**, BA *Brock*, ECE *St. Lawrence College*, MEd, PhD *Victoria*
Assistant Professor of Education
- Atsuko Hashimoto**, BA *British Columbia*, MSc, PhD *Surrey*
Associate Professor of Tourism and Environment
- John A. Hay**, BA/BPHE *Queen's*, MA *Alberta*, PhD *McMaster*
Professor of Community Health Sciences
- David Hayes**, BA *Bristol*, RSA *Exeter*, MA *Lancaster UK*, PhD *Birmingham*
Assistant Professor of Linguistics
- Zhongzhi (Lawrence) He**, MEng *China*, PhD *Concordia*
Associate Professor of Finance
- Martin J. Head**, BSc *Aston*, PhD *Aberdeen*
Professor of Earth Sciences
- James Heap**, BA *California*, MA, PhD *British Columbia*
Professor of Education
Dean, Faculty of Education
- Timothy Heinmiller**, BA, MA *Guelph*, PhD *McMaster*
Assistant Professor of Political Science
- Jane L. Helleiner**, BA, MA, PhD *Toronto*
Professor of Sociology
- Scott Henderson**, BA *Trent*, MA *University of East Anglia*
Lecturer of Communication, Popular Culture and Film
- Matthew Hennigar**, BA *Acadia*, MA *Calgary*, PhD *McGill*
Associate Professor of Political Science
- Hemantha Herath**, BS *Kelaniya, Sri Lanka*, MBA *Sri Jayawardenapura, Sri Lanka*, MS, PhD *Auburn, AL*
Associate Professor of Accounting
- Gordon Hodson**, BA, MA, PhD *Western Ontario*
Associate Professor of Psychology
- Colleen Hood**, BPE *Calgary*, MS, PhD *Illinois*
Professor of Recreation and Leisure Studies
- Sheridan K. Houghten**, BSc, MSc, PhD *Concordia*
Associate Professor of Computer Science
- Ann Howey**, BA, MA *Queen's*, PhD *Alberta*
Assistant Professor of English Language and Literature
- Mei Ling Huang**, BA *Hobei Normal University*, MSc *China Academy of Railway Science*, MSc, PhD *Windsor*
Professor of Mathematics
- Tomas Hudlicky**, BSc *Virginia Polytechnic*, PhD *Rice*
Professor of Chemistry
- Alun Hughes**, BA, MA *Cambridge*, Diploma in Cartography *Swansea*
Associate Professor of Geography
- David J. F. Hughes**, BSc, MSc, PhD *Manitoba*
Associate Professor of Computer Science
- Sahn-Wook Huh**, BA *Seoul*, MBA *Chicago*, PhD *California*
Assistant Professor of Finance
- Harry T. Hunt**, BA *Harvard*, PhD *Brandeis*
Professor of Psychology
- Fiona F. Hunter**, BSc, MSc *Toronto*, PhD *Queen's*
Professor of Biological Sciences
- David L. Hutchison**, BA *Western Ontario*, BEd, MEd *Windsor*, PhD *Toronto*
Associate Professor of Education
- Peggy Hutchison**, BA/BPHE *Queen's*, MA *Dalhousie*, EdD *Boston*
Professor of Recreation and Leisure Studies
- Garrett Hutson**, BSc *Missouri, Columbia*, MSc *Minnesota State*, PhD *Oklahoma State*
Assistant Professor of Recreation and Leisure Studies
- Craig Hyatt**, BA *Kingston*, MS, PhD *Massachusetts*
Assistant Professor of Sport Management
- Hasan Imam**, BA, MA *Dacca*, MSc *London School of Economics*, PhD *Western Ontario*
Assistant Professor of Economics
- Debbie L. Inglis**, BSc, PhD *McMaster*
Associate Professor of Biological Sciences
- Sharilyn J. Ingram**, BA, MA *Alberta*
Assistant Professor of Studies in Arts and Cultures
- Glenwood H. Irons**, BA *Brock*, MAH, MA, PhD *SUNY, Buffalo*
Associate Professor of Applied Linguistics
- Anna Isla**, BA *Iquitos-Peru, Lima, Peru*, MA *Mexico D.F.*, PhD *Toronto*
Associate Professor of Women's Studies and Sociology
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