

**Brock University** 2005/06 Undergraduate Calendar



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3756

# Welcome to Brock



Terry Boak  
Acting President and  
Vice-Chancellor

Brock University continues to evolve as an outstanding school where students acquire an exceptional education, where research and creative activities by professors are innovative and scholarly and where members of the Brock community have a vast array of activities to partake in at the University. You could hardly have picked a more exciting time to be at Brock. With new programs and academic opportunities, as well as new well-equipped academic buildings under construction, Brock

University offers you a learning experience that will truly shape your future life. Upon graduation you will find that your education and experience acquired at Brock will have prepared you well for employment and/or future academic study. You will remember your Brock experience as a very special one.

Brock's long commitment to broad-based undergraduate education, and its continuing emphasis on the Arts and Sciences, along with strong programs in the Health Sciences, Business and Education, indicates our desire to remember and celebrate the best of what we have achieved and will continue to achieve.

The academic programs are strengthened by a number of workplace and practica opportunities for students. I encourage you to explore our many Co-op options, as well as our other work experience opportunities. Brock's innovative EXPERIENCE *Plus* program allows you to develop a record of work experiences that will be invaluable when you do apply for that first job after graduation. Brock graduates are successful in obtaining employment after graduation, and their graduation rate is one of the highest among Ontario's universities.

Our students praise the unique academic experience of Brock, a University which truly cares about you as both a student and a person. This calendar gives you an indication of the exciting academic opportunities awaiting you at Brock. I urge you to explore the possibilities for you at Brock.

I look forward to meeting many of you at some time in the near future.

*T Boak*

Terry Boak  
Acting President and Vice-Chancellor

## The power of a Brock degree!

Brock University graduates continue to enjoy one of the highest employment rates of all Ontario universities at 97.2 per cent.

## Brock means business!

Harvard, MIT, Yale, Queen's, U of T and Brock - the common thread of uncommon quality. Brock has joined the elite business schools accredited by the Association to Advance Collegiate Schools of Business (AACSB).

## Satisfied students

In a recent *Globe and Mail* survey, the quality of education at Brock received an A grade from its students - placing it at the top of the list of Canada's 17 medium-sized universities.

## A Top Choice

The percentage increase in student applications to Brock continues to rise and is one of the highest among Ontario universities.

## Co-op Education

Brock offers the second largest selection of co-op programs in Ontario - and the program is still growing!

## Coming up ACEs

Brock's student entrepreneurs, ACE Brock, consistently win national awards for business ventures.

## Give us a High Five

Brock has won several awards for its student residence programs which are internationally acclaimed for contributing to an outstanding campus life experience.

## Careers begin here!

Brock's EXPERIENCE *Plus* and MED *Plus* programs are unique in Canada for providing students with career-related learning opportunities.

## Vine to Wine

Inniskillin Hall (Cool Climate Oenology and Viticulture Institute) is the home of North America's only undergraduate degree program for the study of cool climate grape growing and winemaking.

## Supporting student excellence

Funding available for Entrance Scholarships awarded to Brock students increased 400 per cent in the last five years.





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  
L. Ritchie (Chair), B. Singer (Vice-Chair), B. Anderson, J. Davey, H. Gayler, H. Herath, R. Young, R. Cheel, M. L. Vanderlee, T. Wade

Administrative Support:  
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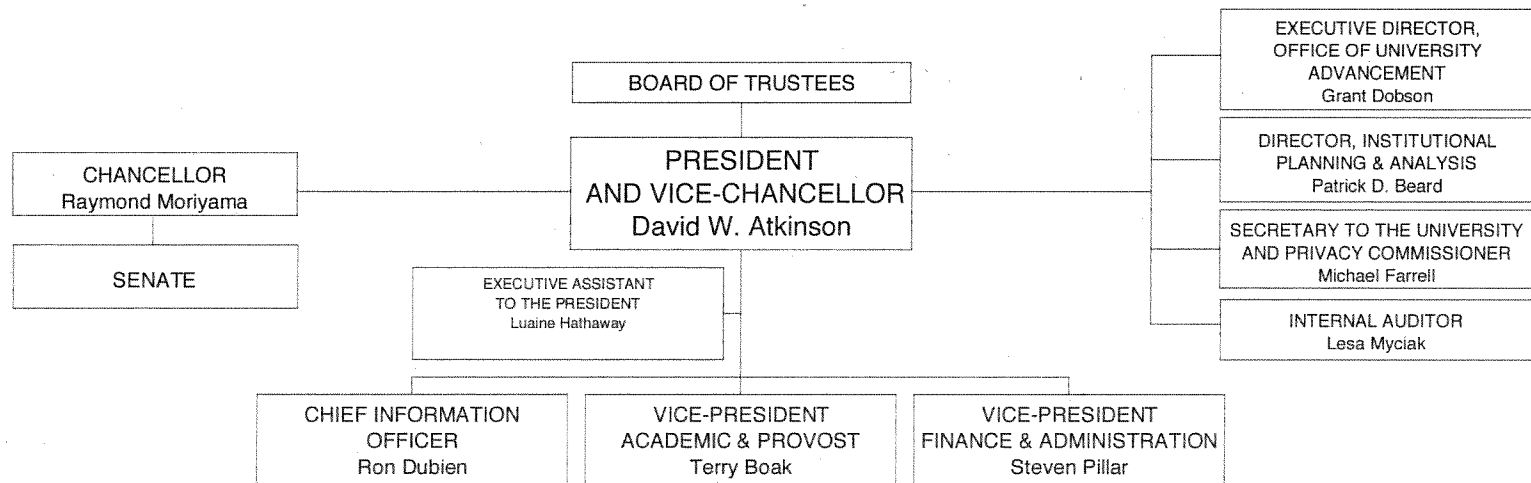
### For further inquiries:

Brock University  
St. Catharines, Ontario  
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*regist@brocku.ca*



# BROCK UNIVERSITY REPORTING LINES FOR SENIOR ADMINISTRATORS AS AT JULY 2005





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# Faculty Structure

## Academic Faculties

### Faculty of Applied Health Sciences

Dean, John T. Corlett, BSc *Brock*, MSc, PhD *Simon Fraser*  
Associate Dean, Anna H. Lathrop, BPhEd *Brock*, MA *Western Ontario*, EdD *Toronto*  
Associate Dean, Michael L. Plyley, BSc, PhD *Western Ontario*

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

### Faculty of Business

Dean, Martin I. Kusy, BComm *Sir George Williams*, MBA *Windsor*, PhD *British Columbia*  
Associate Dean, Donald A. Cyr, *Concordia*, MBA *Saskatchewan*, MA, PhD *Alberta*  
Associate Dean, Sandra Felton, BA *Western Ontario*, PhD *SUNY, Buffalo, CA*

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

### Faculty of Education

Acting Dean, Sybil Wilson BA *Western Michigan*, MA *Columbia*, PhD *Toronto*  
Acting Associate Dean, *Roger Betty* BMus *Western Ontario*, BEd *Toronto*, MEd *Queen's*, EdD *Toronto*

Aboriginal Studies and Native Teacher  
Education  
Adult Studies and Distance Learning  
Continuing Teacher Education  
Graduate and Undergraduate Studies in  
Education  
Pre-Service Education

### Faculty of Humanities

Dean, Rosemary Hale, BA *Kent State*, MA *Eastern Michigan*, MTS, PhD *Harvard*  
Associate Dean, Student Affairs and  
Curriculum, BA, MA, PhD *Toronto*

Applied Language Studies  
Canadian Studies  
Classics  
Dramatic Arts  
English Language and Literature  
Modern Languages, Literatures and  
Cultures  
(French, German, Italian and Spanish)  
Great Books/Liberal Studies  
History  
International Studies  
Music  
Philosophy  
Studies in Arts and Culture  
Visual Arts

### Faculty of Mathematics and Science

Dean, Ian D. Brindle, BSc *Manchester*, MSc *Brock*, FRSC (UK)  
Associate Dean, Gregory C. Finn, BSc *Queen's*, MSc *Western Ontario*, PhD *Memorial*

Biochemistry  
Biological Sciences  
Biomedical Sciences  
Biotechnology  
Chemistry  
Computer Science  
Computing and Business  
Computing and Network  
Communications  
Computing and Solid-State Device  
Technology  
Earth Sciences  
Mathematics  
Neuroscience  
Oenology and Viticulture  
Physics  
Science

### Faculty of Social Sciences

Dean: David T. Siegel, BSc *Louisville*, MA *Carleton*, PhD *Toronto*  
Associate Dean, David DiBattista, AB  
Brown, MA, PhD *Waterloo*

Business Economics  
Child and Youth Studies  
Communications, Popular Culture and  
Film  
Economics

Environment  
Geography  
International Political Economy  
Labour Studies  
Political Science  
Psychology  
Sociology  
Women's Studies

## II. Affiliated College

Interim President, Roger J. Humann BA,  
MDiv, STM, *Concordia, Fort Wayne, DD*  
*Honoris causa*

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. In  
this connection Brock University offers non-  
credit continuous learning and self  
improvement courses through Live Younger  
Longer (LYL).

LYL is aimed at mature persons who to keep  
their minds active, enjoy new learning  
experiences, and develop an expanded network  
of local acquaintances.

Brock University's continuing education  
program consists of numerous opportunities for  
personal enrichment: imaginative courses offer  
participants the chance to acquire new skills,  
sample academic expertise, meet new people,  
and enjoy travel in connection with learning  
experiences.

In offering new programming several times a  
year, LYL appeals to those seeking to  
maintain purpose and meaning in their lives,  
to enhance their careers, to improve their  
health and relationships, and to connect  
more productively 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](http://www.BrockU.CA/registrar/birtguides/index.html) prior to the beginning of the session. NOTE: All dates refer to undergraduate studies unless otherwise specified.

### SPRING 2005

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

**Sunday, May 8**  
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 23**  
Victoria Day. University closed; library open. (see note 1)

**Friday, May 27**  
Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 2 courses.

**Friday, June 3**  
Last day of lectures for duration 2 courses.

**Friday, June 3 and Saturday, June 4**  
Progress examinations for duration 1 courses and final examinations for duration 2 courses.

**Monday, June 6**  
First day of classes for duration 3 courses.

**Monday, June 6 to Friday, June 10**  
Spring Convocation.

**Sunday, June 12**  
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 24**  
Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 1 courses.

**Thursday, June 30**  
Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 3 courses.

**Friday, July 1 and Monday, July 4**  
Canada Day closure. University closed; library open.

**Friday, July 1**  
Last for receipt of applications to graduate at Fall Convocation.

**Friday, July 8**  
Last day of lectures for duration 1 and duration 3 courses.

**Friday, July 8 and Saturday, July 9**  
Final examinations for duration 1 and duration 3 courses.

### SUMMER 2005

**Monday, July 11**  
First day of classes for duration 1 courses. Please consult the Spring and Summer Registration Guide for further details.

**Friday, July 15**  
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 1**  
Civic holiday. University closed; library open.

**Friday, August 12**  
Last day for withdrawal without academic penalty and last day to change from credit to audit status for duration 1 courses.

**Thursday, August 25**  
Last day of lectures for duration 1 courses.

**Thursday, August 25 and Friday, August 26**  
Final examinations for duration 1 courses.

### FALL 2005

**Monday, September 5**  
Labour day. University closed; library closed.

**Tuesday, September 6**  
First day of Fall/Winter Session, duration 1 and duration 2 (Pre-Service Education Program).

**Thursday, September 8**  
First day of Fall/Winter Session, duration 1 and duration 2, day and evening sections (undergraduate program).

**Friday, September 23**  
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, October 10**  
Thanksgiving Day. University closed; library closed.

**Saturday, October 15**  
Fall Convocation.



<b>Sunday, October 16</b> Fall Open House.	<b>Friday, March 3</b> Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 3 courses.
<b>Friday, November 4</b> Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 2 courses without academic penalty.	<b>Sunday, March 19</b> Spring Open House.
<b>Thursday, December 8</b> Last day of lectures, Fall Term, duration 2 courses (see note 2)	<b>Monday, March 13 to Friday, March 17</b> Spring break. No classes will be held in the Pre-service Education Program.
<b>Friday, December 9</b> Snow day/reading day (see note 3).	<b>Monday, April 10</b> Last day of lectures for durations 1 and 3 courses.
<b>Monday, December 12</b> First day of term, Winter Term, Pre-service Education Program. Last day of lectures Fall, duration 2 courses (see note 2).	<b>Tuesday, April 11 and Wednesday, April 12</b> Snow/Reading day(s) (see program note 3).
<b>Saturday, December 10 to Friday, December 23</b> Progress examinations for duration 1 courses and final examinations for duration 2 courses.	<b>Thursday, April 13 to Thursday, April 27</b> Final examinations for duration 1 and duration 3 courses. No examinations will be held on Good Friday, April 14.
<b>Saturday, December 24 to Tuesday, December 27; Sunday, January 1 to Tuesday, January 3</b> Christmas and New Year holiday. University closed; library closed.	<b>Friday, April 14</b> Good Friday. University closed; library open.
<b>Tuesday, December 27 to Saturday, December 31</b> Reduced access to University services.	<p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. The May 27 day in Spring D2 term will be used to replace Victoria Day classes. The schedule will be that of a Monday.</li> <li>2. The extra day in the Fall Term will be used to replace Thanksgiving Day classes. The schedule will be that of a Monday.</li> <li>3. A snow day will be used to cover classes missed because of adverse weather (if needed). Otherwise, it will be a reading day. The day of the week missed will determine the replacement schedule for classes.</li> </ol>
<b>WINTER 2006</b>	
<b>Tuesday, January 3</b> University reopens. Winter Term resumes, Pre-Service Education Program.	
<b>Tuesday, January 3</b> First day of Winter Term, undergraduate programs.	
<b>Saturday, January 8</b> Emergency examination date (December exams).	
<b>Monday, January 16</b> 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.	
<b>Wednesday, February 1</b> Last day for receipt of applications to graduate at Spring Convocation.	
<b>Monday, February 13 to Friday, February 17</b> Reading Week. No classes will be held in undergraduate programs.	
<b>Friday, February 17</b> President's Holiday. Administrative offices closed; Registrar's Office and library open.	

sent to  
Mika Oct 26

## Admissions

For inquiries:

Telephone 905-688-5550, extension 4068

Fax: 905-988-5488

E-mail: [admissns@brocku.ca](mailto:admissns@brocku.ca)

[www.brocku.ca/registrar](http://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.

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### 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).

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### 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.

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### III. Application Deadline

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. Students applying after this date, who are subsequently admitted, may be required to register late and pay the late registration fee.

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### IV. Application Procedures

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For details on how to apply, refer to [www.brocku.ca/registrar/admissions](http://www.brocku.ca/registrar/admissions)

**1. Ontario secondary school applicants**  
OUAC 101 application forms are available online at [www.ouac.on.ca](http://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.

**2. Other full-time applicants**

OUAC 105 application forms are available online at [www.ouac.on.ca](http://www.ouac.on.ca) for previous secondary school matriculants, transfer, out-of-province and international students.

It should be noted that there is a \$25 fee for assessment of previous university or college transcripts for those applicants applying to undergraduate studies.

**3. Second or subsequent undergraduate degrees**

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.

Brock graduates requesting admission to a subsequent undergraduate degree program must complete an internal application form available at the Office of the Registrar. Non-Brock applicants use the OUAC 105 form.

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.

**4. 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](http://www.brocku.ca/registrar/admissions) for application information.

It is the responsibility of all 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 change of name (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.

#### 5. Applications for residence

Students interested in residence should indicate this on the OUAC application form. A residence brochure, which includes application instructions, will be included with offers of admission where interest in residence has been indicated.

### V. Admission to Undergraduate Degree Studies

#### 1. Ontario Grade 12 U/M Courses

Ontario secondary school students must present the Ontario Secondary School Diploma (OSSD). An overall average of 60 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, if their admission averages are sufficiently high.

#### 2. Academic standing accepted as equivalent to Ontario Grade 12 U/M

A. *Alberta, British Columbia, Manitoba, New Brunswick, Northwest Territories, Newfoundland, Nova Scotia, Nunavut, Prince Edward Island, Saskatchewan, Yukon*

Grade 12 senior matriculation with high standing.

#### B. *Quebec*

CEGEP General 1 (minimum of 12 academic courses) or grade 12 with high standing. Advanced standing will be considered for applicants who have completed a two or three year CEGEP program with high standing, to a maximum of five year one credits.

#### C. *United Kingdom, West Indies, East and West Africa, 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 three credits.

#### D. *International Baccalaureate System*

Applicants who have been granted the IB diploma and accumulate a grade total of 28 may be considered for admission and may receive up to three transfer credits on the basis of higher level subjects completed with a grade of "5" or better.

#### E. *Advanced Placement (AP) Program*

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.

#### F. *United States*

Grade 12 diploma with high grades. For borderline cases, SAT scores are helpful in the evaluation process.

#### G. *India, Pakistan and Bangladesh*

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

#### H. *Other Countries*

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

#### I. *All Applicants*

Original or certified true copies of transcripts are required including official English translations (where required). Applicants must submit transcripts for all academic programs including secondary school, college and/or university transcripts. In addition, original or true copies of all English Language Proficiency test results (TOEFL, IELTS, etc.) undertaken to date should be submitted (if required).

#### 3. Transfer from other post secondary institutions

##### A. *Canadian universities*

Applicants wishing to transfer to Brock from degree programs at other Canadian universities must be in good standing and normally offer the equivalent of a minimum 60 percent overall average. Admission is not guaranteed by attainment of the minimum requirements.

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



## ADMISSIONS

where the programs at the college and Brock are quite compatible, up to 5 credits may be awarded with the approval of the department.

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.

Admission is not guaranteed by attainment of the minimum requirements.

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.

### C. 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.

### D. Bible colleges

Applicants who have completed a degree program at a bible college accredited by the Accrediting Association of Bible Colleges will be considered for admission and may receive transfer of up to five credits.

### E. Former Brock students

Former Brock students seeking readmission after having attended another postsecondary institution in the interim, must complete the Brock Application for Readmission form, and forward official transcripts of all postsecondary institutions attended for readmission consideration and possible transfer of credit.

### 4. Admission of mature students

Those who are not eligible for admission in any of the categories listed above, 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 two 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:

- i) career ambitions;
- ii) 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.

### 5. Admission of senior citizens

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.

### 6. 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.

### 7. Readmission of 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.

### 8. January entry

A student may begin first-year studies on a part-time basis in the Winter Term beginning in January. It should be noted, however, that the number and types of courses available are limited.

### 9. Non-degree admission to undergraduate studies

A non-degree student is one who is not proceeding towards a Brock University degree. The non-degree students are identified as:

#### A. Post-degree students

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.

#### B. Letter of permission students

Those authorized by their home universities to take courses at Brock.

### 10. Special admission

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.

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## VI. Admission to Other Programs

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### 1. Faculty of Education

For information on admission requirements and procedures for the various programs, see the Faculty of Education Calendar entry.

### 2. Graduate studies

For information on the admission requirements for graduate degree programs, see the Graduate Studies Calendar. An undergraduate degree acceptable to Brock, normally an honours degree in the appropriate field, is the minimum requirement.

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**VII. Proof of Proficiency in English**

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

1. 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;
2. Completion of the International Baccalaureate diploma where English was the language of instruction;
3. Achievement of an Overall Band Score of 70, with 60 in writing, with no other band score under 60 on the Carleton Academic English language Assessment (CAEL), or completion of the York English Language Test (YELT) with an overall category of 1 or 2;
4. TOEFL (Test of English as a Foreign Language), TOEFL CBT (Computer-based Test), 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 scores of 580 or greater, with a minimum TWE score of 4.5; TOEFL CBT scores of 237 or greater, with a minimum TSE of 4.5; 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.
5. 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 APLS 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 as demonstrated through one of the following:

- TOEFL (Test of English as a Foreign Language) - paper based test with a minimum score of 600, including a minimum of 5.5 on the TWE (Test of Written English);
- TOEFL - computer based test with a minimum score of 250, including a minimum of 5.5 on the TWE;
- 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 score of 7.0;
- MELAB (Michigan English Language Assessment Battery) with a minimum score of 90 and a minimum score of 83 on composition.

**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 (Test of English as a Foreign Language) - paper based test with a minimum score of 600, including a minimum of 5.0 on the TWE (Test of Written English), as well as a 60 on the TSE (Test of Spoken English);
- TOEFL - computer based test with a minimum score of 250, including a minimum of 5.5 on the TWE, 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.

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**VIII. International Student Immigration Requirements**

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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.

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**VIII. International Student Deposit**

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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.

# Admissions Criteria

## General Requirements

Ontario Secondary School students must have a minimum of six Grade 12U or 12M courses and have completed the Ontario (OSSD), or equivalent, to be considered for admission. Prerequisite courses are used in the calculation of admission averages for all programs.

International students on Study Permits are welcome to apply to and be considered for admission to co-op programs at Brock University. However, admission to some programs may be limited or restricted due to limitations imposed by industry requirements, or Canadian Immigration, which make it difficult to secure placements for Visa international students and present challenges for successful completion of required work terms. Visa students are ineligible to apply for Accounting Co-op and Public Administration Co-op.

The above general admission requirements apply to all undergraduate programs. Faculty or program-specific prerequisites follow below. Please note that these are minimum requirements only and are subject to change. Admission is not guaranteed.

View specific Faculty for individual program prerequisites:

- \* Applied Health Sciences
- \* Business
- \* Education
- \* Humanities
- \* Mathematics and Science
- \* Social Sciences

## Faculty of Applied Health Sciences

### Child Health (BA)

Required Grade 12 U Subjects: *English (ENG4U), Biology, Mathematics of Data Management*

### Community Health (BA)

Required Grade 12U Subjects: *English (ENG4U), Mathematics of Data Management, one of Biology or Chemistry*  
Recommended Grade 12U or 12M Subjects: 12M Science, or 12U Exercise Science

### Concurrent BPhEd/BEEd Bachelor of Physical Education(Honours)/Bachelor of Education

Required Grade 12U Subjects: *English (ENG4U), one Mathematics*  
Profile Questionnaire required.  
For teaching Intermediate/Senior level (grades 7 - 12)

### Health Sciences (BSc)

Required Grade 12U Subjects: *English (ENG4U), Biology, Chemistry, one Mathematics*  
Recommended Grade 12U Subject: Exercise Science

### Kinesiology (BKin)

Required Grade 12U Subjects: *English (ENG4U), Biology, one Mathematics*  
Recommended Grade 12U Subject: Exercise Science

### Kinesiology (BSc)

Required Grade 12U Subjects: *English (ENG4U), Advanced Functions and Introductory Calculus, Biology, Chemistry (min. 70% in Chemistry)*  
Recommended Grade 12U Subject: Physics

### Nursing (BScN)

Required Grade 12U Subjects: *English (ENG4U), Biology, Chemistry (minimum 70% in each of the required courses)*  
Recommended Grade 12U Subject: One Mathematics

### Nursing (BScN) Collaborative Program with Loyalist CAAT

Required Grade 12U Subjects: *English (ENG4U), Biology, Chemistry (minimum 70% in each of the required courses).*  
Recommended Grade 12U Subject: One Mathematics



**Physical Education (BPhEd)**

Required Grade 12U Subject: *English (ENG4U)*  
 Recommended Grade 12U Subject: Exercise Science

**Recreation and Leisure Studies (BRLS)**

Required Grade 12U Subject: *English (ENG4U)*

**Sport Management (BSM)**

Required Grade 12U Subject: *English (ENG4U)*

**Tourism Studies (BTS)**

Required Grade 12U Subject: *English (ENG4U)*

**Faculty of Business**

**Accounting (BAcc) Accounting (BAcc) Co-op**

Required Grade 12U Subjects: *English (ENG4U), one Mathematics (Advanced Functions and Introductory Calculus or Mathematics of Data Management preferred)*  
 Recommended Grade 12U Subject: A second Mathematics

**Business Administration (BBA) Business Administration (BBA) Co-op**

Required Grade 12U Subjects: *English (ENG4U), one Mathematics (Advanced Functions and Introductory Calculus or Mathematics of Data Management preferred)*  
 Recommended Grade 12U Subject: A second Mathematics

**Faculty of Education**

**Concurrent BA/BEEd - Bachelor of Arts (Honours)/Bachelor of Education**

Students admitted directly from secondary school. Majors in Dramatic Arts, English, French, Geography, History and Visual Arts. See Faculty of Humanities or Faculty of Social Sciences for more details. For teaching at the Intermediate/Senior level (grades 7 - 12).

**Concurrent BA/BEEd - Bachelor of Arts Integrated Studies (Honours)/Bachelor of Education**

Students admitted directly from secondary school. Teachable subjects include Dramatic Arts, English, French, General Science, Geography, History, Mathematics, Music-Vocal, Physical and Health Education, Visual Arts. See Faculty of Humanities or Faculty of Social Sciences for more details. For teaching at the Junior/Intermediate level (grades 4 - 10).

**Concurrent BA/BEEd - Bachelor of Arts - Child and Youth Studies/Bachelor of Education**

Students interested in the Child and Youth Studies BA/BEEd concurrent program apply to a common year 1 in Child and Youth Studies. Students who achieve a minimum 75% overall academic average with a minimum of 4.0 credits and a maximum of 8.0 credits, are eligible to apply to the BA/BEEd program. All BA/BEEd applicants must have completed CHYS 1F90, PSYC 1F90, and SOCI 1F90 or equivalents. For teaching at the Primary/Junior level (grades K - 6).

**Concurrent BPhEd/BEEd Bachelor of Physical Education (Honours)/Bachelor of Education**

Students must complete the common first year in the Physical Education program before applying for admission to the BPhEd/BEEd (Honours) program. Admission will be based on a minimum 75% overall average on a minimum of 5.0 credits, and a minimum grade of 70% in both PEKN 1P90 and 1P93. For teaching at the Primary/Junior level (grades K - 6).

**Concurrent BPhEd/BEEd Bachelor of Physical Education (Honours)/Bachelor of Education**

Students admitted directly from secondary school. See Faculty of Applied Health Sciences for more details. For teaching at the Intermediate/Senior level (grades 7 - 12).

**Concurrent BSc/BEEd Bachelor of Science (Honours)/Bachelor of Education**

Students admitted directly from secondary school. Majors in Biological Sciences, Chemistry, Computer Science, Geography, Mathematics and Physics. See Faculty of Mathematics and Science for more details. For teaching at the Intermediate/Senior level (grades 7 - 12).

## ADMISSIONS CRITERIA

### Concurrent BSc/BEEd Bachelor of Science - Integrated Studies/ (Honours) Bachelor of Education

Students admitted directly from secondary school. Teachable subjects include Geography, Mathematics and General Science. See Faculty of Mathematics and Sciences for more details. For teaching at the Junior/Intermediate level (grades 4 - 10).

## Faculty of Humanities

Applied Language Studies, Canadian Studies, Classics, English Language and Literature, French, Great Books/Liberal Studies, History, Italian, Philosophy, Spanish, Studies in Arts and Culture, Visual Arts (BA)

Required Grade 12U Subject: *English (ENG4U)*,

Recommended Grade 12U Subjects: One History, Philosophy, Classical Studies or International Languages

### Concurrent BA/BEEd - Bachelor of Arts (Honours)/Bachelor of Education

(Majors: Dramatic Arts, English, French, Geography, History, Visual Arts)

Required Grade 12U Subjects: *English (ENG4U)*, *one Mathematics*. For French majors: *English*, *one Mathematics*, *12U Français* or *12U French*

Profile Questionnaire required.

For teaching at the Intermediate/Senior level (grades 7 - 12)

### Concurrent BA/BEEd Bachelor of Arts - Integrated Studies (Honours)/Bachelor of Education

(Teachable Subjects: Dramatic Arts, English, French, General Science, Geography, History, Mathematics, Music-Vocal, Physical and Health Education, Visual Arts)

Required Grade 12U Subjects: *English (ENG4U)*, *one Mathematics*

Profile Questionnaire required.

For teaching at the Junior/Intermediate level (grades 4 - 10)

### Dramatic Arts (BA) Dramatic Arts (BA) Co-op (Drama in Education and Society, Dramatic Literature; Theatre)

Required Grade 12U Subject: *English (ENG4U)*,

Recommended Grade 12U Subjects: One History, Philosophy, Classical Studies or International Languages

### Music (BMus and BA)

Required Grade 12U Subject: *English (ENG4U)*,

Recommended Grade 12U Subjects: One History, Philosophy, Classical Studies or International Languages

Theory placement test (Royal Conservatory Grade II level) and aural skills test must be passed. Audition required for Applied Music

## Faculty of Mathematics and Science

### Applied Environmental Science and Technology (BSc) Co-op

Required Grade 12U Subjects: *Chemistry\** (*minimum 70% required*), *Mathematics (minimum 70% required)*, *one from Biology, Geography or Physics*.

\*Applicants with 65%-69% in 12U Chemistry 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.

### Biological Sciences (BSc)

Required Grade 12U Subjects: *One Mathematics (minimum 70% required)*, *Chemistry\* (minimum 70% required)*, *two from Biology, a second Mathematics or Physics*

Recommended Grade 12U Subject: English (ENG4U)

\*Applicants with 65%-69% in 12U Chemistry 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.

### Biochemistry (BSc) / Biochemistry (BSc) Co-op

Required Grade 12U Subjects: *One Mathematics (minimum 70% required)*, *Chemistry\* (minimum 70% required)*, *two from Biology, a second Mathematics or Physics*

Recommended Grade 12U Subject: English (ENG4U)

\*Applicants with 65%-69% in 12U Chemistry 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.

**Biomedical Sciences (BSc)**

Required Grade 12U Subjects: *One Mathematics (minimum 70% required), Chemistry\* (minimum 70% required), two from Biology, a second Mathematics or Physics*

Recommended Grade 12U Subject: English (ENG4U)

\*Applicants with 65%-69% in 12U Chemistry 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.

**Biotechnology (BSc) Biotechnology (BSc) Co-op**

Required Grade 12U Subjects: *One Mathematics (minimum 70% required), Chemistry\* (minimum 70% required), two from Biology, a second Mathematics or Physics (75% average in all courses required for Co-op)*

Recommended Grade 12U Subject: English (ENG4U)

\*Applicants (except Co-op) with 65%-69% in 12U Chemistry 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.

**Concurrent BSc/BEd Bachelor of Science (Honours) /Bachelor of Education**

(Majors: **Biological Sciences, Chemistry, Computer Science, Geography, Mathematics, Physics**)

Required Grade 12U Subjects For Biological Sciences, Chemistry, Physics Majors:

*English (ENG4U), Mathematics (minimum 70% required), Chemistry (minimum 70% required), as well as any other prerequisites required for intended major.*

Required Grade 12U Subjects For Computer Science, Geography, Mathematics Majors:

*English (ENG4U), Mathematics, as well as any other prerequisites required for intended major.*

Profile Questionnaire required.

For teaching at the Intermediate/Senior level (grades 7 - 12)

**Concurrent BSc/BEd Bachelor of Science - Integrated Studies (Honours) /Bachelor of Education**

Required Grade 12U Subjects: *English (ENG4U), one Mathematics*

Recommended Grade 12U Subjects: Chemistry (minimum 70%) for those intending to choose teachable subjects that require registration in CHEM 1F92.

Profile Questionnaire required.

For teaching at the Junior/Intermediate level (grades 4 - 10)

**Chemistry (BSc) Chemistry (BSc) Co-op**

Required Grade 12U Subjects: *Chemistry\* (minimum 70%), Physics and two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required)*

Recommended Grade 12U Subjects: English and a third Mathematics

\*Applicants with 65%-69% in 12U Chemistry 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.

**Computer Science (BSc) Computer Science (BSc) Honours Computer Science (BSc) Co-op**

Required Grade 12U Subjects for BSc Honours: *Two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required)*

Required Grade 12U Subject for BSc: One Mathematics (minimum 70% required)

Recommended Grade 12U or 12M Subjects: English and Computer and Information Sciences

**Computing and Business (BCB) Computing and Business (BCB) Co-op**

Required Grade 12U Subjects: *English (ENG4U), two mathematics averaging 75%*

Recommended Grade 12U and 12M Subjects: Computer and Information Sciences

**Computing and Network Communications (BSc) Co-op**

Required Grade 12U Subjects: *English (ENG4U), two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% in at least one mathematics required)*

Recommended Grade 12U and 12M Subjects: Computer and Information Sciences

**Computer Science and Mathematics (BSc) Co-op**

Required Grade 12U Subjects: *English (ENG4U), two Mathematics (minimum 75% average in each)*

Recommended Grade 12U and 12M Subjects: Computer and Information Sciences



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### Computing and Solid State Device Technology (BSc) Computing and Solid State Device Technology (BSc) Co-op

Required Grade 12U Subjects: *Minimum 75% in Physics, two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required)*

### Earth Sciences (BSc) Earth Sciences BSc (Co-op)

Required Grade 12U Subjects: *One Mathematics (minimum 70% required), Chemistry\* (minimum 70% required), one from Biology, Physics, or Earth and Space Science*

Recommended Grade 12U Subjects: A second Mathematics and English

\*Applicants with 65%-69% in 12U Chemistry 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.

### Environmental Geosciences (BSc) Environmental Geosciences BSc (Co-op)

Required Grade 12U Subjects: *One Mathematics (minimum 70% required), Chemistry\* (minimum 70% required), one from Biology, Physics, or Earth and Space Science*

Recommended Grade 12U Subjects: A second Mathematics and English (ENG4U)

\*Applicants with 65%-69% in 12U Chemistry 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.

### Environment (BSc)

Required Grade 12U Subjects: *Chemistry\* (minimum 70% required), one Mathematics (minimum 70% required), two from Biology, Geography or Physics*

\*Applicants with 65%-69% in 12U Chemistry 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.

### Health Sciences (BSc)

See Faculty of Applied Health Sciences

### Mathematics (BSc) (MICA)

Required Grade 12U Subjects: *Advanced Functions and Introductory Calculus, a second Mathematics (Geometry and Discrete Mathematics preferred) (minimum 70% in each course)*

Recommended Grade 12 Subject: English

### Neuroscience (BSc) Neuroscience (BSc) Co-op

Required Grade 12U Subjects: *Biology, Chemistry\* (minimum 70% required), either one Mathematics (minimum 70% required) or Physics*

Recommended Grade 12U Subject: English (ENG4U)

\*Applicants with 65%-69% in 12U Chemistry 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.

### Oenology and Viticulture (BSc) Co-op

Required Grade 12U Subjects: *One Mathematics (minimum 70% required), Chemistry\* (minimum 70% required), two from Biology, Physics or a second Mathematics*

\*Applicants with 65%-69% in 12U Chemistry 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.

### Physical Geography (BSc)

See Faculty of Social Sciences

### Physics (BSc) Physics (BSc) Co-op

Required Grade 12U Subjects: *Chemistry\* (minimum 70% required), Physics, two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required)*

Recommended Grade 12U Subject: A third Mathematics and English (ENG4U)

\*Applicants with 65%-69% in 12U Chemistry 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.

### Faculty of Social Sciences

#### Environment, Geography, International Political Economy, Labour Studies, Sociology, Women's Studies (BA)

Required Grade 12U Subject: *English (ENG4U)*,

#### Business Economics (BBE) Business Economics (BBE) Co-op

Required Grade 12U Subjects: *English (ENG4U)*, *one Mathematics (minimum 65% required)*

#### Child and Youth Studies (BA)

Required Grade 12U Subject: *English (ENG4U)*,

Recommended Grade 12U Subject: Mathematics of Data Management

#### Communications Studies (BA) Communications Studies (BA) Co-op

Required Grade 12U Subject: *English (ENG4U)*,

#### Concurrent BA/BE Bachelor of Arts (Honours)/Bachelor of Education (Major: Geography)

Required Grade 12U Subjects: *English (ENG4U)*, *one Mathematics*

Profile Questionnaire required.

For teaching at the Intermediate/Senior level (grades 7 - 12)

#### Concurrent BA/BE Bachelor of Arts /Integrated Studies (Honours) /Bachelor of Education

(Teachable Subjects: Dramatic Arts, English, French, Geography, History, Music-Voice, Physical and Health Education, Visual Arts)

Required Grade 12U Subjects: *English (ENG4U)*, *one Mathematics*

Profile Questionnaire required.

For teaching at the Junior/Intermediate level (grades 4 - 10)

#### Economics (BA) Economics (BA) Co-op

Required Grade 12U Subject: *English (ENG4U)*, *one Mathematics (minimum 65% required)*

#### Film (BA) Film (BA) Co-op

Required Grade 12U Subject: *English (ENG4U)*,

#### Physical Geography (BSc)

Required Grade 12U Subjects: *One Mathematics (minimum 70% required)*, *one from Biology, Physics, Chemistry \*(minimum 70% required) or Earth and Space Science*

Recommended Grade 12U Subject: *English (ENG4U)*

\*Applicants with 65%-69% in 12U Chemistry 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.

#### Political Science (BA) Political Science (BA) Co-op

Required Grade 12U Subject: *English (ENG4U)*

#### Popular Culture (BA) Popular Culture (BA) Co-op

Required Grade 12U Subject: *English (ENG4U)*

#### Psychology (BA) Psychology (BA) Co-op

Required Grade 12U Subject: *English (ENG4U)*

Recommended Grade 12U Subject: Mathematics of Data Management

# Academic Regulations and University Policies

## I. Confidentiality and Release of Student Records

### A. Student Access

Students have the right to 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 have the right to 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.

### B. 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. The Brock University Students' Union (BUSU), as well as constituent organizations authorized by them, may obtain listings of students with names, addresses and telephone numbers for purposes of communicating with their membership. Listings will be 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).

### C. Third Party Access

It is University policy to make a minimum of information freely available to all inquirers. This includes the student's active registration status, current field of studies and degree(s) that have been conferred by the University and the date(s) of conferral. Except as specified below other information contained in the record will be disclosed only with the student's written consent. This restriction applies to requests from parents, spouses, credit bureaus and police. 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 enrolment 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.

### D. 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 enrolment 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, enrolment information, previous education, and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only

for statistical purposes and the confidentiality provisions of the *Statistics Act* prevent the information 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: [www.statcan.ca](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.

### E. 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.

### F. 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.

### G. 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 enrolment 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 one or more years 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 periods 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 enrol in courses which conflict in time without the written approval of each instructor.* All courses and programs are subject to enrolment 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 enrol.
2. Enrol in courses in accordance with the procedures outlined in the university's Registration guides published 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 enrol in five credits (2.5 per term) during the Fall/Winter Session. Students normally enrol 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 enrol in courses which conflict in time without written approval of the instructors involved.

### G. 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 2005

Duration 1 (begins May 2)

Last day to drop a course without academic penalty is June 24

Duration 2 (begins May 2)

Last day to drop a course without academic penalty is May 27

Duration 3 (begins June 6)

Last day to drop a course without academic penalty is June 30

#### SUMMER 2005

Duration 1 (begins July 11)

Last day to drop a course without academic penalty is August 12

#### FALL/WINTER 2005/2006

Duration 1 (begins September 8)

Last day to drop a course without academic penalty is January 16, 2006

Duration 2

Last day to drop a course without academic penalty is November 4, 2005

Duration 3

Last day to drop a course without academic penalty is March 3, 2006

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

## ACADEMIC REGULATIONS AND UNIVERSITY POLICIES

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.

### H. 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 prerequisites 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*.

### I. Letters of Permission

Brock students wishing to enrol 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 \$25.00 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.

### J. 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.

### K. 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.

### L. 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 prerequisites have been met. Department/centre approval is required for any deviation from this policy. 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 toward 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

##### Context courses

##### Humanities

CANA 1F91  
CLAS 1P91, 1P92, 1P93, 1P95, 1P97  
DART 1F93  
ENGL 1F91, 1F95, 1F97  
FILM 1F94  
FREN 1F90  
GBLS 1F90, 1P91, 1P93  
GERM 1F90, 1P93, 1P94  
\*HIST 1F95, 1F96, 1P92, 1P93\*\*  
ITAL 1F90, 1P95  
INTL 1F90  
LING 1F25  
MUSI 1F50, 1P11, 1P12  
PHIL 1F90, 1F91, 1F93, 1F94  
SPAN 1F90  
VISA 1F98

##### Social Sciences

CHSC 1F90  
CHYS 1F90  
ECON 1P91, 1P92  
ENVI 1P90, 1P91  
\*GEOG 1F90  
\*HIST 1F95, 1P92, 1P93\*\*  
LABR 1F90  
LING 1F91  
POLI 1F90, 1P91, 1P92, 1P93,  
1P94, 1P95, 1P98  
PSYC 1F90  
SOCI 1F90, 1P80  
WISE 1F90

##### Sciences

ASTR 1F00  
BIOL 1F25, 1F90  
CHEM 1F92  
ERSC 1F01, 1F90, 1P92, 1P93  
\*GEOG 1F91  
PHYS 1P21, 1P22, 1P23, 1P91,  
1P92, 1P93  
SCIE 1F30

All students must include one credit (or two half-credits) from each of the list of Humanities, Social Sciences and Sciences courses to fulfil 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 fulfil context requirements by the end of the third year of the program.

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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 fulfil the requirement for the Social Sciences option, GEOG 1F91 may not be taken to fulfil 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) 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.
- b) Requirements outside the two major Departments/Centres concerned.
- c) Core and context requirements.
- d) 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 a 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 a 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, Portuguese, Old Norse, Spanish and Russian.

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 enrol in a course numbered 2(*alpha*)00 or above are exempt from the language requirement. For example, such an exemption may be granted to OAC or 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 enrol 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.

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## IV. Graduation Requirements

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### A. Application for Graduation

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

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

These are fixed dates. If these dates fall on a Saturday or Sunday, the closing is 4:30 p.m. the next working day. (Consult the "Fees" section for the applicable Convocation fee.)

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 or the Bachelor of General and Applied Studies (15 credit) degree requires 60 percent overall average (no major average requirement).

### C. Undergraduate Degrees

Offered 2005 -2006

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 (as a first degree):** *Pass*

**Bachelor of Education in Adult Education (as a first degree):** *Pass*

**Bachelor of Arts:** *Honours, With a Major, Pass*

**Bachelor of Business Administration:** *Honours, Non-Honours*

**Bachelor of Business Economics:** *Honours*

**Bachelor of Computing and Business:** *Honours*

**Bachelor of General and Applied Studies (with Seneca College):** *Pass*

**Bachelor of Kinesiology:** *Honours, Non-Honours*

**Bachelor of Music:** *Honours*

**Bachelor of Physical Education:** *Honours, With a Major*

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

**Bachelor of Science:** *Honours, With a Major, Pass*

**Bachelor of Science in Nursing:** *Honours*

**Bachelor of Sport Management:** *Honours, Pass*

**Bachelor of Tourism Studies:** *Honours, With a Major*

**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) is 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 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 information for specific requirements.

A minimum of fourteen credits in the majors (seven from each) is 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 all major credits and 60 percent 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 courses designated as major credits 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

## ACADEMIC REGULATIONS AND UNIVERSITY POLICIES

Mathematics and Sciences, then the degree awarded upon satisfaction of all graduation requirements will be the BSc or the BSc (Honours) as appropriate.

All credits from the chosen subjects are designated as 'major' credits.

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 B.Sc.

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 mathematics or computer science 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.

There are no major, or specified 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 MATH/COSC 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 Mathematics or Computer Science.

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.

#### **Concentrations are offered in:**

- Criminology
- Curatorial Studies
- Drama in Education and Society
- Geographic Information Science
- Intelligent Systems
- Labour Studies
- Public Law
- Pure Mathematics
- Social Justice and Equity
- Software Engineering
- Statistics

#### **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.

#### **Minors are offered in:**

- Art History
- Biological Sciences
- Business
- Canadian Studies
- Chemistry
- Classical Archaeology
- Classical Studies
- Criminology
- Dramatic Arts
- Earth Sciences
- Elementary Teaching Mathematics
- English Language and Literature
- Environmental Studies
- French
- Geography
- German
- Great Books/Liberal Studies
- History
- International Studies
- Italian
- Labour Studies
- Linguistics
- Mathematics
- Music
- Philosophy
- Physics
- Professional Ethics
- Professional Writing
- Psychology
- Secondary Teaching Mathematics
- Sociology
- Spanish
- Studies in Arts and Culture
- Tourism Studies
- Women's 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);
- fulfil 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, BEEd in Aboriginal Adult Education and BEEd 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 fulfil 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 fulfil 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)

Communications Disorders Assistants (Department of Applied Language Studies)

Criminology (Department of Sociology)

Drama in Education and Society (Department of Dramatic Arts)

Enterprise Education (Department of Pre-Service Education)

Environment (Centre for the Environment)

Grape and Wine Technology (Oenology and Viticulture program)

Great Books/Liberal Studies (Centre for Great Books/Liberal Studies)

Hearing Sciences (Department of Applied Language Studies)

Labour Studies (Centre for Labour Studies)

Professional Writing (Department of English Language and Literature)

Public Administration (Department of Political Science)

Public Law (Department of Political Science)

Speech and Language Sciences (Department of Applied Language Studies)

Statistics (Department of Mathematics)

Teaching English as a Second Language (Department of Applied Language Studies)

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.



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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 fulfil 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".

### 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.

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 "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. 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.

Medical documentation supporting the request for a deferred examination must be written on the physician's letterhead (or show the physician's address and telephone number) and must include the student's name, and date the student was examined by the physician, must certify that the student was incapable of attempting the examination at the scheduled time and date, and must bear the physician's signature.

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.

If a student is unable to write a formally scheduled examination for religious reasons, application should be made to the Office of the Registrar at least two weeks prior to the examination period. Supporting evidence must be submitted.

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.

#### **G. Required Medical Documentation**

It is the University's policy to accept medical certificates from qualified medical practitioners attesting to the 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 Department/Centre may, at its discretion, request more detailed documentation in

particular cases. Medical documentation must be written on the physician's letterhead (or show the physician's address and telephone number) and must include the student's name and date the student was examined by the physician and must bear the physician's signature.

#### **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.

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## **VI. Evaluation of Student Performance**

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#### **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.

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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 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. 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.)

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.

### D. 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.\*

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

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.*

#### E. 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

#### F. 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.)

#### G. 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 permanent 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 average on any or all 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 average on any or all 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 permanent 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 Committee on Admissions.

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.

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 readmission. 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 average on any or all 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 average on any or all 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 permanent 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.

##### Readmission:

Students on Academic Debarment who wish to be considered for readmission 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

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support of any appeal for readmission. 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.

*Students on a final Academic Probation following Academic Debarment must:*

- Pass all courses in which they were registered;
- Achieve a minimum 60 percent average on any or all 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.

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### VII. Academic Misconduct

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#### A. Definitions

Academic misconduct may take many forms and is not limited to the following:

##### *Exams and Tests*

- Impersonation of a candidate in an exam or test.
- Copying from another student or making information available to other students knowing that this is to be submitted as the borrower's own work.
- 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 large sections of paraphrased material in a lab report without acknowledgment.
- Faking laboratory data.

##### *Essays and Assignments*

- Submission of an essay written in whole or in part by someone else as one's own.
- Preparing an essay or assignment for submission by another student.
- Copying an essay or assignment, or allowing one's essay or assignment to be copied by someone else.
- Using direct quotations or large sections of paraphrased material without acknowledgment.
- The buying or selling of term papers or 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 with or without minor modifications as one's own.
- 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. Associate 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.

##### *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.

#### 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 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 Ombuds Officer.

If the Dean is satisfied that a case of academic misconduct has been proven, s/he should inform the Office of the Registrar who, in the case of first offenders, will insert a permanent 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 offenders. 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 may impose the following sanctions:

- a) oral or written disciplinary warning or reprimand;
- b) lower grade or failure on the assignment or examination;



- c) failure in the course;
- d) suspension from the University for a definite period;
- e) notation on student's official transcript;
- f) 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 readmission.

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 readmission. 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 readmission 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.

#### B. Appeal of Academic Debarment

Appeals must be directed to the Senate Student Appeals Board.

Appeals for readmission are considered only after the minimum two year period of debarment. Readmission 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. 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.

## ACADEMIC REGULATIONS AND UNIVERSITY POLICIES

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.

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### IX. Appeals Procedures

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#### 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 onus 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 certificate from a licensed medical practitioner or other professional indicating specifically the student's inability to fulfil the requirements being appealed.

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

#### B. 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 Department/Centre may, at its discretion, request more detailed documentation in particular cases.

Medical documentation must be written on the physician's letterhead (or show the physician's address and telephone number) and must include the student's name and date the student was examined by the physician and must bear the physician's signature.

#### 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 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.

#### D. Force Majeure

Brock University accepts no responsibility for the continuance of any class lecture, seminar, laboratory, tutorial or course of instruction which may not be completed as a result of an act of God, fire, riot, strikes, lockout or any cause beyond the control of Brock University.

## Degrees and Certificates

### DEGREES

Bachelor of Accounting (Honours)  
 Bachelor of Education in Aboriginal Adult Education  
 Bachelor of Education in Adult Education  
 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 General and Applied Studies (Pass)  
 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 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 and Pass)  
 Bachelor of Tourism Studies (Honours)  
 Bachelor of Tourism Studies

### CONCURRENT DEGREES

Bachelor of Arts (Honours)/  
     Bachelor of Education (Intermediate/Senior)  
 Bachelor of Arts - Child and Youth Studies (Pass)/  
     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 (Primary/Junior)  
 Bachelor of Science (Honours)/  
     Bachelor of Education (Intermediate/Senior)  
 Bachelor of Science - Integrated Studies (Honours)/  
     Bachelor of Education (Junior/Intermediate)  
 Bachelor of Science - Integrated Studies (Pass)/  
     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)*  
 Communications Disorders Assistants  
     *(Department of Applied Language Studies)*  
 Criminology  
     *(Department of Sociology)*  
 Drama in Education and Society  
     *(Department of Dramatic Arts)*  
 Enterprise Education  
     *(Department of Pre-Service Education)*  
 Environment  
     *(Centre for the Environment)*  
 Grape and Wine Technology  
     *(Oenology and Viticulture program)*  
 Great Books/Liberal Studies  
     *(Centre for Great Books/Liberal Studies)*  
 Hearing Sciences  
     *(Department of Applied Language Studies)*  
 Labour Studies  
     *(Centre for Labour Studies)*  
 Professional Writing  
     *(Department of English Language and Literature)*  
 Public Administration  
     *(Department of Political Science)*  
 Public Law  
     *(Department of Political Science)*  
 Speech and Language Sciences  
     *(Department of Applied Language Studies)*  
 Statistics  
     *(Department of Mathematics)*  
 Teaching English as a Second Language  
     *(Department of Applied Language Studies)*  
 Women's Studies  
     *(Centre for Women's Studies)*

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

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## I. Definitions

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1. The term "University" means Brock University.
2. The term "student" includes all persons taking one or more courses at the University, both full-time and part-time, pursuing intensive English language program, undergraduate, graduate or professional studies.
3. The term "University official" means any person employed by the University or by the Students' Union performing assigned administrative or professional duties.
4. The term "member of the University community" includes any person who is a student, faculty member, staff member, University official or any person employed by the University.
5. The term "University premises" includes all land, buildings, facilities, roadways, and other property in the possession of or owned, used, or controlled by the University.
6. The term "Discipline Panel" includes any person or persons authorized by the Associate Vice-President, Student Services to determine whether a student has violated the Code of Student Conduct and to impose sanctions.
7. The position of Student Conduct and Activities Officer is a University official authorized by the Associate Vice-President, Student Services to determine whether a student has violated the Code of Student Conduct and to impose sanctions. The Associate Vice-President, Student Services may authorize the Discipline Officer to serve simultaneously as the Discipline Officer and as the sole member, or one of the members of the Discipline Panel.

8. The term "shall" is used in the imperative sense.

9. The term "may" is used in the permissive sense.

10. The term "Associate Vice-President, Student Services" is that person designated by the University President to be responsible for the administration of the Code of Student Conduct.

11. The term "policy" is defined as the written regulations of the University as found in, but not limited to, the Code of Student Conduct, Residence Handbook and Graduate/ Undergraduate calendars.

## II. University Jurisdiction

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Brock endeavours to provide a working and learning environment of the highest quality, supportive of scholarship and research and free from stereotyping, harassment and discrimination. We believe that the members of the University community must lead the way toward becoming a humane and just society - where interpersonal interactions are based on honesty and integrity, where race, ancestry, place of origin, citizenship, creed, sex, age, sexual orientation, marital status, family status or disability make no difference, where respect for individual worth prevails, and where violence is not tolerated in any form. This Code of Conduct and statement of disciplinary procedures seek[s] to support the above principles by outlining student responsibilities, rights and privileges; by detailing specific behaviours that are unacceptable, and by describing the disciplinary procedures for dealing with infractions of the Code. Brock University is a community that exercises jurisdiction and authority on campus as far as it is necessary to ensure the safe and orderly operation of the University.

## III. Student Responsibilities, Rights and Privileges

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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 defense. In particular, every student has a right:

- to be promptly informed in writing of the nature of the charge;
- to refuse to answer incriminating questions;
- to present and examine witnesses, and to cross-examine witnesses present who testify against him or her;
- to be accompanied by an adviser and/or support person from the Brock community as outlined in the relevant panel's policies and procedures.

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

### 1. Participation in University and Student Government

Students may participate in formulation and application of institutional policy affecting academic, extra-curricular and student union affairs.

### 2. 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.

### 3. 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.

### 4. Fairness

Consistency and fairness are ensured by the procedures outlined in sections IV, V, VI and VII below.

### 5. Confidentiality

Confidentiality of University records relating to each student is protected. For further details refer to the following published statements: Student Record Policy (Office of the

Registrar), Confidentiality in Counseling, Confidentiality and Security of Library Records.

**6. Safety**

The University is committed to promoting safe conditions of living, learning and studying.

**7. Access to Facilities and Services**

Access to buildings and facilities is governed by regulations which are necessary for the safety and security of students. The University accepts the obligation to provide adequate access to persons with physical disabilities.

**8. Access to Licensed Facilities and Events**

Access to campus events where alcohol is served is subject to restrictions for persons under 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.

**IV. Non-Academic Misconduct**

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 in sections V and VI below. Furthermore, the activity may be subject to criminal prosecution notwithstanding and in addition to this Code.

**1. 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.

**2. Verbal/Physical Abuses, Threatening Behaviour and Dangerous Activity**

**No student shall:**

- verbally threaten any member of the University community;
- physically abuse, threaten or cause any other member of the university community to fear physical abuse;
- create a condition which endangers or threatens the health or safety of themselves or others.

**3. Inciting Violence**

**No student shall:**

- on University property, 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 of this Section.

**4. 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 the University Policy on Harassment and Discrimination).

**5. Unauthorized Entry and/or Presence**

**No student shall:**

- enter or remain in any University facility, room or office without proper authority. Facilities include but are not limited to the following: the Student Centre, parking lots, athletic fields, campus buildings, campus areas, off-campus residences and teaching sites. Campus Security may charge students who violate this provision with trespass under the Trespass to Property Act.

**6. 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 of Brock's performance spaces

**7. 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 any University equipment, material or service by fraudulent means or by providing false information.

**8. 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 and permits.

**9. 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 sexually explicit materials.

**10. 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, or distribute false Identification or altered identification.

**11. Aiding and Abetting**

**No student shall:**

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

**12. False Charges**

**No student shall:**

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

**13. Misconduct Related to the Use of Alcohol/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" event;

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- be in possession of, furnish to anyone, consume, or be in the company of those who are consuming or furnishing illegal drugs;
  - be in possession of, or consume alcoholic beverages, except when properly in attendance at a campus pub or event
  - be in possession or consume alcohol anywhere on University premises if under the age of 19 years;
  - be in the company of anyone under the age of 19 who is found to be either in possession or consuming alcohol
- furnish alcoholic beverages to any person under the age of 19;
- invite, sign in, or admit as his/her guest a non-student of Brock except as s/he assumes full responsibility for the guest's behaviour as it relates to the Code of Student Conduct.
  - violate the University alcohol policy

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.

### 14. 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.

### 15. Theft, 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.

### 16. Parking

#### No student shall:

- sell, transfer, or acquire a parking pass without the consent of Parking Services
- alter a parking pass from its original state or be in possession of an altered parking pass
- make and/or distribute false parking passes

### 16. Failure to comply

#### No student shall:

- fail to comply with directions of University Officials, Campus Security, or other law enforcement officers acting in performance of their duties;
- fail to comply with published University policies, rules or regulations.

### 17. 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.

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## V. Non-Academic Misconduct Sanctions

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### 1. Temporary Suspension and Trespass Sanctions

The University reserves the right to intervene in disciplinary situations where student[s'] 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 may apply a temporary university-wide trespass/suspension sanction and the Director of Residence Services 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 effective immediately, for as long as reasonably required by the nature of the danger. A formal discipline hearing will normally be held within 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.

### 2. Criminal Offenses

Criminal offenses committed on the University campus against persons or property and reported to Brock University Campus Security will be dealt with according to the law. When a student is involved, Campus Security 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 criminal prosecution or civil actions.

### 3. Residence Offense Sanctions

Sanctions for residence offenses are defined under the Residence Agreement and Rules and Regulations of Residence.

### 4. Minor Offense Sanctions

Minor misconduct is dealt with 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 Students' Union to a maximum of 3 hours (by the Chief of Campus Security or the BUSU 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 48 hours (by the Director of the facility);
- 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 BUSU Business Manager, the Student Centre Pub Manager, or the Director of Residence and Food Services);
- payment for damages of \$100 or less (by the Director of the facility, the BUSU Business Manager, or the Circulation Librarian).



**5. 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;
- removal of privileges for use of licensed facilities on campus;
- a period of service to the University or the Student Union not to exceed 21 hours
- completion of an educational program or project;
- 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
- 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 which is not listed above, the Panel may recommend an exceptional sanction to be considered by the Associate Vice-President, Student Services.

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**VI. Student Discipline Procedures**

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**1. Residence Offense Procedures**

Any breaches of the Residence Agreement or residence rules or regulations 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 Residence and Food Services may forward the case to the Student Conduct and Activities Officer for action under the "Other University Offenses" section of this code.

**2. Minor Offense Procedures**

Minor misconduct is dealt with 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 repeated by the same student;
- the University official believes the infraction warrants a sanction greater than the minor offense sanctions listed in Section V.

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

**3. Other University Offense Procedures**

Notice of an alleged offense, under the Code must be filed with the Student Conduct and Activities Officer by any member of the Brock community within 10 business days of the incident in question. This time period for filing notice of an alleged offense may be extended at the discretion of 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.

**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 in Section IV or V;
- 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.

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**VII. Student Appeal Procedures**

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**1. 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 Ombuds Officer for advice regarding formal avenues of Appeal. Formal appeal procedures are available as outlined below.

**2. Residence Appeals**

The Associate Vice-President (Student Services) 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.

**3. Appeals from sanctions applied by the University Discipline Panel Eligibility for Appeals**

Either party, appellant or complainant, 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

**4. 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).

• Appeals must be submitted in writing to the Office of the Vice-President (Academic) within 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 10 working days of receiving 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.

**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.

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- Appeals must be submitted in writing to the Office of the Associate Vice-President (Student Services) within 10 working days of the student's University Discipline Panel hearing.
- The appeal must be signed by the student and include the grounds of the appeal.
- Within 10 working days of receiving 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.

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### VIII. Administration of Non-Academic Conduct Policy

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#### 1. Authority and Amendments

Amendments to the Student Code of Non-Academic Conduct 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).

#### 2. 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).

#### 3. 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 years after the student graduates or ceases to be a student.

## Fees

Academic fees are charged on a per credit basis. The fee covers registration, tuition and ancillary fees as follows:

Undergraduate Regular Fee	per full credit	per half credit	Undergraduate Visa Fee	per full credit	per half credit
<i>Tuition</i>	\$836.82	\$418.41	<i>Tuition</i>	\$2215.86	\$1107.93
<i>*BUSAC Fee</i>	\$12.60	\$6.30	<i>*BUSAC Fee</i>	\$12.60	\$6.30
<i>Athletic, Intramural, Recreation Program Fee</i>	\$14.92	\$7.46	<i>Athletic, Intramural, Recreation Program Fee</i>	\$14.92	\$7.46
<i>Recreation Facilities Fee</i>	\$2.00	\$1.00	<i>Recreation Facilities Fee</i>	\$2.00	\$1.00
<i>Capital Cost of the Student/Community Centre for Health and Fitness</i>	\$10.00	\$5.00	<i>Capital Cost of the Student/Community Centre for Health and Fitness</i>	\$10.00	\$5.00
<i>BUSAC Student Centre Construction</i>	\$10.00	\$5.00	<i>BUSAC Student Centre Construction</i>	\$10.00	\$5.00
<i>BUSAC Capital Fund</i>	\$2.50	\$1.25	<i>BUSAC Capital Fund</i>	\$2.50	\$1.25
<i>*OPIRG</i>	\$1.50	\$0.75	<i>*OPIRG</i>	\$1.50	\$0.75
<i>Access©</i>	\$0.64	\$0.32	<i>Access©</i>	\$0.64	\$0.32
<i>**OUSA</i>	\$0.41	\$0.20	<i>**OUSA</i>	\$0.41	\$0.20
<i>BUSU Safety Fee</i>	\$0.25	\$0.13	<i>BUSU Safety Fee</i>	\$0.25	\$0.13
<i>Brock Radio</i>	\$1.50	\$0.75	<i>Brock Radio</i>	\$1.50	\$0.75
<i>Alumni Centre Renovations Fee</i>	\$3.00	\$1.50	<i>Alumni Centre Renovations Fee</i>	\$3.00	\$1.50
<i>WUSC Student Sponsorship</i>	\$0.40	\$0.20	<i>WUSC Student Sponsorship</i>	\$0.40	\$0.20
<b>TOTAL FEE</b>	\$896.54	\$448.27	<b>TOTAL FEE</b>	\$2275.58	\$1137.79

\*BUSAC - Brock University Students Administrative Council  
 \* OPIRG - Ontario People's Interest and Research Group  
 \*\*OUSA - Ontario Undergraduate Student Alliance

Students who are not Canadian citizens, landed immigrants, international students sponsored by CIDA or who do not have diplomatic privileges, will pay the visa student fee.

SCHEDULE OF FEES

<b>Additional Fees Applicable for the Fall/Winter Session:</b>	
<b>Day Care Fee</b>	
There is a \$1 charge per registered student in the Fall/Winter Session as per the agreement with BUSU and the Rosalind Blauer Day Care Centre.	
<b>Health Services Fee</b>	
Full-Time Canadian or Landed Immigrant (Full-time = 3.0 credits or more in Fall/Winter)	\$22.14
Part-Time Canadian or Landed Immigrant (Part-Time = more than 1 credit but less than 3 in Fall/Winter)	\$11.07
International Students (those paying VISA fees) Regardless of course load	\$22.14
Spring Session Fee	\$5.00
(students taking 1.5 credits or more in the Spring Session and all International students regardless of course load) <b>Note: This fee is subject to the approval of the Board of Directors.</b> <i>This is a non-refundable fee, which covers the operating cost of the health facilities on campus.</i>	
<b>U.H.I.P.:</b>	
As of July 1, 1994, foreign students were no longer covered by OHIP. Therefore, all foreign students are required to pay for the mandatory health insurance plan UHIP (University Health Insurance Plan). Single Person Rate for 12 months September to August 2005 was \$532.85. For detailed information relating to this plan contact Brock's department of International Services. Residents of Quebec may be eligible for OHIP coverage and should inquire at Health Services for details. 2005-2006 UHIP rate unknown at time of printing.	
<b>Health Insurance Fee (BUSU):</b>	
As a result of the referendum in Spring 2001, the Brock University Students' Union (BUSU) is now offering an extended Health Plan to all students who are enrolled in the equivalent of 3 or more full credits in September and are contributing to BUSU fees. This program is mandatory and provides coverage for 80% of prescription drugs and a variety of other physio and chiropractic programs. Details of the Health Plan can be found on the BUSU website (www.busu.net) or at the Health Plan office located in the Students' Center.	
The fee for the plan is \$115 (subject to change). Students that already have comparable coverage will have the opportunity to waive this fee (details of this process are available on-line as well). It is each student's responsibility to determine their status with regards to the BUSU extended Health Care Plan; be sure to make an <i>informed</i> decision.	

Universal Transit Pass Fee (U-PASS)	\$126.00
<i>As a result of a referendum in the spring of 2003, all undergraduate students taking 1.5 or more credits will be charged the Universal Transit Pass fee. Please consult the BUSU website for further details www.busu.net</i>	
<b>Fee Payment to Confirm Registration:</b> A statement, indicating the amount due and payment instructions will be mailed to you starting three weeks prior to the payment due date of the session. Statements will be updated and mailed out on a weekly basis up until a week prior to the payment due date reflecting any course changes.	
Payment of the required fees by the payment due date will confirm your registration.	
<b><u>Payment Due Dates</u></b>	
Spring Session	April 25, 2005
Summer Session	July 4, 2005
Fall/Winter Session	August 22, 2005
<i>Late Registration is considered to be anyone who has registered for the first time in a session one week prior to the payment due date. The dates are as follows:</i>	
Spring	April 18, 2005
Summer	June 27, 2005
Fall	August 15, 2005
A Late Registration fee of \$50 will be charged and payment will be due upon receipt of your invoice.	
Additional courses added after the payment due date will be invoiced on a weekly basis and will be due upon receipt.	
<b>Failure to Pay by the Payment Due Date:</b> Failure to pay by the payment due date may result in de-registration. If your payment is due upon receipt please note that payment utilizing option three may not be received in time to avoid de-registration. In this instance the other two methods of payment would be preferred.	
Students taking three or more full credits (six or more half credits) may pay the minimum installment. Those taking less than three credits must pay in full. The normal course load for the Spring and Summer sessions is less than three full credits therefore fees must be paid in full for these sessions.	

**Payment Options:**

1. Via Internet, telephone or ATM  
Banking services at Scotia Bank, Royal Bank, CIBC, Bank of Montreal, TD Canada Trust and most Ontario Credit Unions. **Payment should show on your account within 24-48 hours.**
2. In person at any branch of the above financial institutions except Credit Unions. **Payment should show on your account within 5 business days.**
3. Mail cheque or money order to the address listed on your statement. **Payment should show on your account within 10 business days.**

If you choose to pay only the minimum installment, a one time carrying charge will be levied on the outstanding balance of your account on November 1, 2005, at a rate of \$6 per \$100 (or part) owing. You can avoid these charges by paying in full by October 31, 2005. Otherwise, the balance of your tuition and related fees including the carrying charge is due in full by January 3, 2006.

Please note that statements are not automatically mailed after each transaction. You are financially responsible for any courses registered in after your initial billing without further notice. Fees must be paid by the above noted deadlines or service charges will be applied. Failure to receive a bill does not excuse you from the responsibility of payment. **Please note you may view your financial account on-line, see Brock University's home page and follow the links to Student Self Service.**

Students registering in September for Winter Term (duration 3) courses only are still liable for the minimum payment by the due date. This will ensure your place in the course.

**Seniors:**

Students 60 years of age or older by the first week of class may opt for a tuition waiver. Those senior students opting for a waiver of tuition are still responsible for the payment of all ancillary fees. These fees include the per course ancillary component (\$59.72 per full credit) as well as any sessional fees such as the daycare fee, health service fee, health insurance fee and U-Pass fee as applicable. Tuition is the only fee that is waived.

**Unpaid Accounts:**

No student having an outstanding account with the University will receive a degree or a statement of final grades, or have any such statement furnished to parties outside the University until the debt has been cleared to the University's satisfaction. Final grades may only be released by the Registrar's Office. Future registration is also prohibited.

**One Time Carrying Charge for Instalment Payments:**

The last day for paying the second instalment of fees without carrying charges is October 31, 2005. Carrying charges are levied on November 1, 2005 at a rate of \$6 on each \$100 (or part) owing.

**Service Charges:**

Fees not paid in full by January 3, 2006 will be subject to service charges. Service Charges will be levied on all overdue accounts on the first business day of each month at a rate of \$3.00 on each \$100 (or part) owing.

**Tuition Fees at Withdrawal**

Withdrawal notification, in writing after the closing of BIRT, must be received in the Office of the Registrar by the dates noted below for the 2005-2006 Fall/Winter Session. **Discontinuing attendance at classes, notification to the instructor or stopping payment on a cheque presented at registration does not constitute official withdrawal.**

**Complete Withdrawal Processing Fee**

If you completely withdraw from all courses up to September 23rd a fee of \$90/credit and \$45/per half credit will be charged.

**SCHEDULE OF FEES**

<b>The tuition credit schedule is as follows:</b>			<b>Schedule of Fees</b>	
<b>Duration 1 courses: Credit* Withdrawal Period</b>	<b>Duration 2 courses: Credit* Withdrawal Period</b>	<b>Duration 3 courses: Credit*Withdrawal Period</b>		
100% - Sep 8 - Sep 23	100% - Sep 8 - Sep 23	100% - Jan 3 - Jan 16	Course Audit Fee: The charge for auditing a course is 50% of the normal course fee or the withdrawal charge at the time of the change to audit status, whichever is greater.	
65% - Sep 24 - Oct 4	65% - Sep 24 - Oct 3	65% - Jan 17 - Jan 24	<b>Challenge for Credit:</b>	
60% - Oct 5 - Oct 13			Canadian Fee per credit	\$379.00
55% - Oct 14 - Oct 24	55% - Oct 4 - Oct 11	55% - Jan 25 - Feb 1	Visa Fee per credit	\$678.26
50% - Oct 25 - Nov 2			<b>Application to Graduate</b>	\$35.00
45% - Nov 3 - Nov 11	45% - Oct 12 - Oct 19	45% - Feb 2 - Feb 9	<b>Co-op Administration Fee:</b>	
40% - Nov 12 - Nov 22			Initial Payment not refundable	\$600.00
35% - Nov 23 - Nov 30	35% - Oct 20 - 27	35% - Feb 10 - Feb 24	Continuing Co-op Administration Fee	\$400.00
30% - Dec 1 - Dec 8			<b>Nursing: Practicum Administration Fee</b>	\$300.00
25% - Dec 9 - Jan 6	25% - Oct 28 - Nov 4	25% - Feb 25 - Mar 3	<b>Oenology and Viticulture:</b>	
20% - Jan 7 - Jan 16			Intern Experience (per work term)	\$50.00
0% - After Jan 16	0% After Nov 4	0% After Mar 3	Administration Fee Administration Fee (per work term)	
<p>*The credit will be applied to your account. Refunds are only mailed if your account is paid in full at the time of withdrawal.</p> <p><b>OSAP</b> Students expecting to receive assistance through the Ontario Student Assistance Program must file their application with the Financial Aid Office no later than June 30. Students who apply after this date and who have not received written confirmation that their applications have been processed must pay the required fees by the payment due date. Students who are expecting OSAP must pay a minimum of \$500 as Confirmation of Enrolment.</p> <p>Residence Fees: In 2004-2005 the residence rates for room and board average about \$7100 depending on the type of accommodation and meal plan. An increase is expected for 2005/2006. Please consult the Residence web page <a href="http://www.brocku.ca/residence">www.brocku.ca/residence</a></p>			Employment Experience	\$250.00
			Previous Experience Evaluation Fee (per work term)	\$100.00
			<b>Late Registration Fee:</b> (After the Payment Due Date of a session)	\$50.00
			<b>Retro-Active Per Course Add Fee</b> (effective after Ministry count date for a session)	\$100.00
			<b>I.D. Card Replacement:</b>	\$20.00
			<b>Transcript of Record:</b>	\$8.00
			<b>Duplicate Tax Certificate:</b>	\$10.00
			<b>Returned Cheques:</b>	\$35.00
			<b>Pre-Collection Letter Service:</b>	\$10.00
			<b>Refund Cheque Replacement</b>	\$10.00
			<b>Replacement of Diploma:</b>	\$50.00

SCHEDULE OF FEES

Another University Transcript Assessment:	\$25.00
Letter of Permission:	\$25.00
Administrative Fee for Appeals:	\$50.00
Verification of Registration and Other Status:	\$15.00
Complete Withdrawal Processing Fee	\$90.00 per full credit \$45.00 per half credit
Off-Campus Examination	\$50.00
Med Plus Membership Fee	\$650.00
Late Drop Administration Fee	\$50.00
Evaluation Fee (Faculty of Education, Admissions)	\$60.00

*Please note that not all additional fees have been noted in the fee section of the Calendar.*

*Please consult the course description for further information on applicable charges.*

**Finance Office:**

The Finance Office is located on the 12th floor of the Schmon Tower. Our office hours are Monday through Friday, 9:00 a.m. to 4:15 p.m. Inquiries concerning fees may be addressed in person at the above location or by phone at (905) 688-5550, extension 4600.



sent to  
Sunshine  
Oct. 26

## Scholarships, Bursaries, Awards and Financial Assistance

### *Administration of Awards*

Awards that are administered by the University will be made by Senate to qualified candidates; Senate may withhold any award if no candidates qualify. The award of scholarships, bursaries, prizes and medals shall be final when formally announced by the University.

### *Prospective Donors*

The University welcomes offers of funds for scholarships, bursaries and prizes from individuals, companies and associations.

Enquiries should be addressed to:

Student Awards and Financial Aid  
Brock University  
St. Catharines, Ontario  
L2S 3A1

905-688-5550, extension 3744

### *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 [www.brocku.ca/studentawards/](http://www.brocku.ca/studentawards/) for more information.

### *Non-Departmental Scholarships (Open to Any Faculty)*

#### **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 or OACs 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 2005 entry are:  
\$10,000 (\$2500 per year\*\*) for averages 94.0 percent+

\$6,000 (\$1500 per year\*\*) for averages 90.0 percent – 93.9 percent

\$4,000 (\$1000 per year\*\*) for averages 86.0 percent – 89.9 percent

\$1,550 (\$500 in year one, \$350 for years 2, 3 and 4\*\*) for averages 80.0 percent – 85.9 percent

Students pursuing a pass degree will receive two renewals.

\*\*Renewable if student maintains an 80.0 percent average on a minimum of 4.0 credits in the Fall/Winter session.

#### **Brock National Leaders Award**

##### **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.

These scholarships are open to first-degree students applying to BA or BSc programs only. The awards will be made as follows: Five to students from Ontario; two from Quebec; three from the Maritimes; three from the Prairies; two from BC, Yukon, Nunavut & Northwest Territories.

#### **Brock Guernsey Undergraduate Scholarship**

##### **Application Required**

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).

#### **Brock International Baccalaureate (IB) Scholars Award**

##### **Application Required**

Awarded to students in a registered IB program with a minimum of four senior year IB course subjects and cumulative IB grades of 28 or higher. This award is open to students from all countries and provinces. Students must register for full-time study to be eligible. Applicants must also submit a Student Profile before the final award is made.

#### **Brock University Alumni Association Entrance Award**

##### **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.

SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

The recipient must demonstrate leadership within community and possess a minimum 80% admission average.

Donor: Brock University Alumni Association

Established: 2004

**Burgoyne Family Scholarships**

Application Required

Value: \$5000\* each. To support five students who are residents of Niagara. A minimum of two recipients will be enrolled in a Business 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 Ltd.

Established: 1996

Endowed: 1997

**John Clout Memorial 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. The award will alternate between male and female recipients.

Donor: Canadian Auto Workers, Local 199

Established: 2002

**Edith and Bernard Ennis Scholarship**

Application Required

Value: \$2500\*. 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

**C. Bruce Hill Scholarship**

Value: \$2800\*. Awarded to the incoming first-year student with the highest average.

**The Marion and Ren Henderson Scholarship**

Awarded to a female student entering university with high academic achievement. Selection will be determined by the Senate

Committee on Undergraduate Student Affairs.

Donor: Marion and Ren Henderson

Established: 2000

Endowed: 2000

**Kerrio Family 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

**H. H. Knoll Scholarships**

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

**Lasting Impression 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 1993

Established: 1993

Endowed: 1996

**Molson - CHSC - Folk Arts Council Scholarship**

Application Required

Value: \$850\*. Awarded to a student(s) entering university from a St. Catharines high school.

Donor: St. Catharines Folk Arts Council

Established: 1987

Endowed: 1987

**Niagara Credit Union Foundation Scholarship**

Application Required

Value: \$2500\*. 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

**Niagara Credit Union Scholarships**

Application Required

Value: \$500 each. Two scholarships: awarded to outstanding students who are graduates of secondary schools in the Niagara Region and who are entering an undergraduate degree program.

Donor: Niagara Credit Union

Established: 1989

**Dorothy and Jack Roberts Cerebral Palsy Scholarship**

Application Required

Value: \$1000. Awarded annually to a student with cerebral palsy at Brock as selected by the Associate Vice-President (Student Services) with the input of the disABILITIES Office. This scholarship is for full-time students as defined by the Services for Students with disABILITIES Office. Preference will be given to a student from the Niagara Region. Student must meet minimum academic requirements. While a student may receive this scholarship more than once, preference will be given to first-time recipients.

Donor: Niagara Peninsula Cerebral Palsy Association

Established: 1994

**Dr. G.C. Shaver Scholarship**

Value: \$2800. Awarded to the incoming first-year student with the highest average.

**C. Boyd Slemon Scholarship**

Value: \$2800. Awarded to the incoming first-year student with the highest average.

**A Stoddard Jones Scholarship**

Application Required

Value: \$2500\*. 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

**Walker Industries Scholarship**

Application Required

Value: \$5000\*. Awarded annually, by

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

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** Application Required

Value: \$2,300\*. 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

### **John and May Ella Houghton Scholarship** Application Required

Value: \$2500\*. 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

### *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 Awards have been made possible because of the generosity of many groups and individuals, including the following: the Findley Estate, the Gardiner Estate, the Kinnear Estate and the Rose Estate.

Please visit [www.brocku.ca/studentawards/](http://www.brocku.ca/studentawards/) for more information.

### **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.

### **Alumni Scholarships**

Application Required  
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

### **Birks Family Foundation Scholarship**

Value: \$750\*. Awarded to outstanding students at the discretion of Senate.  
Donor: Birks Family Foundation  
Established: 1968  
Endowed: 1968

### **Brock Alumni Honours Scholarship**

Application Required  
Value: \$1000\*. 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.  
Established: 2003

### **Brock University Alumni Association Student Award**

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 263.

Donor: Brock University Alumni Association  
Established: 1974

### **Dr. Alan Earp Scholarship**

Application Required  
Value: \$3850\*. 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. Alan Earp Alumni 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 Alumni Association  
Established: 1988

### **The Lloyd and Norma Edwards Scholarship** Application Required

Value: \$1300\*. 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

### **Sophia Gampel Memorial Scholarships**

Value: \$350\*. Awarded to two students from the city of Niagara Falls, Ontario.  
Donor: Mr. Abraham Gampel  
Established: 1970  
Endowed: 1970

### **David S. Howes Athletics Scholarship**

Application Required  
Value: \$1500 each. To be awarded, by application, to each of two returning students

SCHOLARSHIPS, BURSARIES, AWARDS  
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who are varsity athletes and have a minimum average of 80 percent. Renewable upon maintaining an academic average of 80 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: David S. Howes  
Established: 1996  
Endowed: 1996

**HUB International Ontario Limited-Niagara Scholarship**

Value: \$100\*. Awarded to two students with a record of academic excellence.  
Donor: HUB International Ontario Limited  
Established: 1970

**Lasting Impression Part-Time 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  
1993  
Established: 1993  
Endowed: 1996

**Meloche-Monnex Scholarship**

Application Required  
Value: \$1350\*. Awarded, by application, to a student who must demonstrate financial need and meet Ontario residency requirements.

Donor: Meloche-Monnex Inc.  
Established: 1997  
Endowed: 1997

**Niagara-on-the-Lake Vintage Inns Scholarship**

Application Required  
Value: \$2500\*. 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

**Peter and Janet Partridge 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

**Margaret Pummell Scholarship**

Application Required  
Value: \$2200\*. 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 Scholarships Officer. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Mrs. M. R. Pummell  
Established: 1997  
Endowed: 1997

**Niagara Regional Development Council Scholarship**

Application Required  
Value: varies. Awarded to a student 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 students' supervisor.

Donor: Niagara Regional Development Council  
Established: 1974

**President's Surgite 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

**Dorothy and Jack Roberts Cerebral Palsy Scholarship**

Application Required  
Value: \$1000. Awarded annually to a student with cerebral palsy at Brock as selected by the Associate Vice-President (Student Services) with the input of the Services for Students

with disABILITIES Office. This scholarship is for full-time students as defined by the Services for Students with disABILITIES Office. Preference will be given to a student from the Niagara Region. Student must meet minimum academic requirements. While a student may receive this scholarship more than once, preference will be given to first-time recipients.

Donor: Niagara Peninsula Cerebral Palsy Association  
Established: 1994

**Student International Mobility 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

**Terry and Sue White Athletics Scholarship**

Application Required  
Value: \$1500\*. 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

**Wood Gundy Scholarship**

Value: \$400\*. Awarded to a student with a record of academic excellence.

Donor: Wood Gundy Securities Limited  
Established: 1970  
Endowed: 1970

**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

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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 our website: [www.brocku.ca/studentawards/](http://www.brocku.ca/studentawards/).

### *Entering Students*

#### **Barkley's of Avonmore Bursary**

Application Required  
Value: \$450\*. 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

#### **Brock University Entrance Bursary**

Application Required  
Value: \$750. Awarded to entering undergraduate students who have qualified for Ontario and who have not received any other financial assistance from Brock University. 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

#### **Enbridge Aboriginal Bursary**

Application Required  
Value: \$2600\*. 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.

#### **Williamson Memorial Fund**

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

### *Returning Students*

#### **James and Margaret Auld Memorial 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.

#### **The John W. Bean and Kathryn Bean Becker Scholarship**

Application Required  
Value: \$1350\* 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

#### **Muriel and Arnold Bennett Student 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

#### **Birks Family Foundation Bursary**

Application Required  
Value: \$1000\*. Awarded by the Foundation on the recommendation of the University scholarship committee, these bursaries are not restricted to faculty or year and may be

renewed. Applicants must demonstrate financial need.

Established: 1968

Donor: Birks Family Foundation

#### **Branscombe Family Foundation Bursaries**

Application Required  
Value: \$1000\*. 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

#### **Brock Alumni Honours Bursary**

Application Required  
Value: \$1000\*. 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.  
Established: 2002  
Endowed: 2002

#### **Brock University Co-op 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 Exchange Program 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.

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**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.

**Brock University Student-Athletics 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 University Student Union Bursary**

Application Required

Value: \$500\*. 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

**Campus Recreation Bursary**

Application Required

Value: \$1250\*. 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

**Critelli Family Bursary**

Application Required

Value: \$500\*. 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. Application deadline is December 1.

Donor: Mr. Tom and Mrs. Zan Critelli

Established: 2001

**CUPE Local 1295 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

**John Deere Foundation of Canada Bursary**

Application Required

Value: \$500\*. Awarded to applicants who demonstrate financial need and meet Ontario residency requirements.

Donor: John Deere Foundation

Established: 1997

Endowed: 1997

**William J. Edgar Bursary**

Application Required

Value: \$1500\*. 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

**Jim Gayman 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

**James A. Gibson Library Bursary**

Application Required

Value: \$500\*. 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

**Professor Ernest E. Goldsmith Bursary**

Application Required

Value: \$900\*. To be distributed among worthy students in financial need. Applicants must demonstrate financial need.

Donor: Brock University Alumni Association

Established: 1974

Endowed: 1974

**Harrison-Thompson Bursary Trust**

Application Required

Awarded to under-graduate students in any of the following Faculties 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

**Viola Jantzi Bursary**

Application Required

Value: \$1250\* Awarded annually to a Brock University student in any year of study, who demonstrates 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

**T. J. Kearney Bursary**

Application Required

Value: \$200\*. 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

**Anne and Nicholas Kushner Bursary**

Application Required

Value: \$500\*. 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

**Rotary Ted Lancaster Bursary**

Application Required

Value: \$1500\*. Awarded annually to applicants who demonstrate financial need and meet Ontario residency requirements.

Donor: St. Catharines Rotary Club

Established: 1996

Endowed: 1996

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**Manulife Financial Bursary**

Application Required

Value: \$1000\*. 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

**Award for Métis Students**

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

**Stan Mikita Bursary**

Application Required

Value: \$350\*. 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

**Old Badgers Rugby Alumni Bursary**

Application Required

Value: \$900\*. 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 Student Opportunity Trust Fund 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

**Order of Eastern Star Award Garden City Chpt. 53**

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

**Stella and Alan Robinson Memorial Award**

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

**Auguste E. Schmid Bursary**

Application Required

Value: \$600\*. 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

**Silver Badger Legacy Bursary**

Application Required

Value: \$500\*. 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

**Student Services Bursary**

Application Required

Value: \$500\*. 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

**Canadian Federation of University Women-St. Catharines Bursary**

Application Required

Value: \$350. 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

**Canadian Federation of University Women (Niagara Falls Branch) Scholarships Trust Fund 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

**Promising Choices 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

**The Vern and Donna Sutherland Memorial Bursary**

Application Required

Value: \$1000. 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

**Women's Basketball Alumni 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



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**Badger Award for Leadership in Extracurricular Activities**

**Application Required**

Established in memory of Victoria Catherine Hull, this award 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

**Brock University Alumni Association Student Award**

**Application Required**

Value: \$500. Awarded to a full-time or part-time student, who has completed at least 10 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 263.

Donor: Brock University Alumni Association

Established: 1974

**Brock University President's Tournament 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 \$2,500).

**Brock Women's Hockey Leadership 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 70 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

**The Campus Recreation Jubilee Award**

**Application Required**

Value: \$150. 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

**CUPE Local 2220 Awards**

**Application Required**

Two awards: \$600 to a full-time student, \$400 to a part-time student. The part-time award could be received by one student or divided equally between no more than two eligible candidates. The awards will be granted on the basis of applications from eligible candidates at the undergraduate or graduate level who are members of CUPE Local 2220 or relatives of CUPE Local 2220.

Please provide a statement including the name of and your relationship to a CUPE Local 2220 member.

Donor: CUPE 2220

Established: 1990

**Distinguished Graduating Student Award**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Chancellor's luncheon at Convocation.

Established: 1998

**Front Row Sports 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 70 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

**Governor General's Silver Medal**

Awarded to the student graduating with the highest cumulative overall average. 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.

**Halia Jordan Memorial Book Prize**

Value: \$125\*. Awarded each October to a deserving international student.

Donor: Friends of the late Mrs. D. L. Jordan

Established: 1986

Endowed: 1986

**Bev McCollom Memorial 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

**Lucia K. Pawlik Award**

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 70 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

**Pepsi Canada Student 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 60 percent. Applications are available from BUSU.

Donor: Pepsi Bottling Group

Established: 1999

**Sheaffe Hall 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

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### **Silver Badger Alumni Award**

Application Required

Value: \$300. 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 high academic standing, 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 March 1.

Donor: The family and friends of Barrie-Ann Bergsma

Established: 1987

### **Steel Blade 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: 2001

### **Scholarships**

#### *Faculty of Applied Health Sciences*

#### *Any Department*

#### *Entering Student Scholarship*

#### **Bertha and Bernard Harrison Living Legacy Scholarships**

Application Required

Value: \$5500\*. 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**

Value: \$1150\* each. Awarded to students with outstanding academic achievement, entering the Faculty of Applied Health Sciences.

Donor: Bertha and Bernard Harrison

Established: 1994

Endowed: 1994

### *Returning Student Scholarships*

#### **The John W. Bean and Kathryn Bean Becker Scholarship**

Application Required

Value: \$1350\* 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

#### **25th Anniversary Scholarships**

Value: \$1950\* 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

#### **The Spencer Williams Scholarship**

Value: \$300\*. Awarded to an outstanding student in the Faculty of Applied Health Sciences.

Donor: The Rotary Club of St. Catharines South

Established: 1973

Endowed: 1973

#### *Other Awards*

#### **Distinguished Graduating Student Award**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Chancellor's luncheon at Convocation.

Established: 1998.

#### **Dean's Medal for Applied Health Sciences**

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.

### *Community Health Sciences*

#### *Entering Student Scholarship*

#### **Bluma Appel Scholarship in Community Health Sciences**

Value: \$1900\*. 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

### *Bursaries*

#### **MDS Inc. Bursary**

Application Required

Value: \$500\*. 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

### *Other Awards*

#### **Julie Bouffard Community Health Sciences 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

### *Nursing*

#### *Bursary*

#### **Luigi and Amalia Setacci Bursary**

Application Required

Value: \$700. 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.

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Donor: Mr. Luigi Setacci through the  
Niagara Community Foundation  
Established: 2002

*Other Awards*

**Dr. Max Alexandroff Award**

Application Required  
Value: \$100\*. 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 70%). The successful  
recipient must demonstrate financial need  
and meet Ontario residency requirements.

**Dorothy Doyle Award**

Application Required  
Value: \$900. 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  
70% 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.

**Ida Marietta Houston Award**

Value: \$250\*. 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

*Physical Education and Kinesiology*

*Returning Student Scholarship*

**Aileen Hood Memorial Scholarship**

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

*Bursaries*

**Ken and Nancy Murray Bursary**

Application Required  
Value: \$500\*. 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

*Other Awards*

**Canadian Society for Exercise Physiology  
Undergraduate Student Award**

The award is offered to Canadian universities  
which 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**

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 70 percent.

Donor: The family of Jason Pearson  
Established: 2001

**Wilson-Drake Award**

Awarded annually to two outstanding  
Physical Education students enrolled in  
PHED 4F93 Advanced Movement Seminar.  
The recipients demonstrate outstanding  
scholarship, teaching excellence and a  
commitment to the Physical Education  
profession. This award is named after Dr.  
Jean Wilson and Valerie Drake, whose  
commitment and dedication to the  
Movement Studies Program and its' students  
is unparalleled.

Donor: Proceeds from the "4 The Spirit of  
Dance Performance"  
Established: 2001

*Recreation and Leisure Studies*

*Bursaries*

**Recreation and Leisure Studies Student  
Bursary**

Application Required  
Value: \$50. Awarded to a student in financial  
need who is currently enrolled in Recreation  
and Leisure Studies.  
Donor: Ann Marie Guilmette  
Established: 1966

**Recreation and Tourism Student Society  
Book Prize**

Application Required  
Value: \$130\*. Awarded to a returning  
recreation/tourism 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

## SCHOLARSHIPS, BURSARIES; AWARDS AND FINANCIAL ASSISTANCE

### *Sport Management*

#### *Other Awards*

#### **Sport Management Student Council Achievement Award**

##### Application Required

Value: \$200. Awarded to two returning students with leadership qualities who are currently in their second or third year of study and have a minimum average of 70 percent and have made a demonstrated contribution to the Sports Management program and Brock University. The Sports Management Student Council and its Advisors will determine selection. To apply students must submit a 1 page resume to the Sport Management Student Council no later than April 1.

Donor: Sport Management Club of Brock University

Established: 2000

#### **E. Werner Awards**

##### Application Required

Value: \$650\*. Awarded by the Sport Management 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

### *Tourism Studies*

#### *Other Awards*

#### **MR. SUB 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 Tourism Student Society Book Prize**

Value: \$130\*. Awarded to a returning recreation/tourism 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

### *Faculty of Business*

#### *Any Department*

#### *Entering Student Scholarships*

#### **Burgoyne Family Scholarships**

##### Application Required

Value: \$5000\* each. To support five students who are residents of Niagara. A minimum of two recipients will be enrolled in a Business 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

#### **Abitibi Consolodated Inc. Scholarship in Business**

##### Application Required

Value: \$1250\* each. Awarded to a student entering the first year of a business program. The award is renewable contingent upon maintaining a minimum 75 percent average in the program of study. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Niagara/Baie Comeau Community Foundation

Established: 1997

Endowed: 1997

#### **Abitibi Consolodated Inc. Scholarship in Entrepreneurship**

##### Application Required

Value: \$1250\*. Awarded to a student entering the first year of Business, who has declared an interest in pursuing the entrepreneurship program. Applicants must

demonstrate entrepreneurial skill and/or aptitude through a one page resume. The recipient will continue to receive the award annually throughout their Brock University career contingent upon maintaining a minimum 75% average in their program of study. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Niagara/Baie Comeau Community Foundation

Established: 1997

Endowed: 1997

#### **Kenneth A. Fowler Scholarship**

##### Application Required

Value: \$5000\*. 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

#### **Bertha and Bernard Harrison Living Legacy Scholarships**

##### Application Required

Value: \$5500\*. 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**

Value: \$1150\* 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

#### **David S. Howes Scholarship in Business**

##### Application Required

Value: \$2000\*. Awarded by application to a student entering the Business program with the highest academic average. Renewable upon maintaining an academic average of 80 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: David S. Howes  
Established: 1996  
Endowed: 1997

**William and Lorraine McNally Scholarship**  
Application Required

Value: \$2300\*. 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

**Adam Neill Memorial Scholarship**

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

**Kim Ryerson Willoughby Memorial Scholarship**

Application Required

Value: \$1300\*. 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

*Returning Student Scholarships*

**The John W. Bean and Kathryn Bean Becker Scholarship**

Application Required

Value: \$1350\* 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

**Dante F. Marinelli/Niagara Duty-Free Shops Scholarship**

Application Required

Value: \$2300\*. 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

**Faculty of Business International Exchange 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

**Partridge Iggulden Scholarship**

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

**RBC Dominion Securities Scholarship**

Application Required

Value: \$1500\*. 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

**Suzanne Rochon Burnett, C.M., O. ONT Scholarship**

Value: \$1250\*. 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

**Scotiabank Scholarship**

Application Required

Value: \$2500\*. 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

**25th Anniversary Scholarships**

Value: \$1950\* 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

Business; Humanities; Mathematics and Science; Applied Health Sciences; and Social Sciences.

Donor: Faculty and Staff of Brock University

### **Terry and Sue White Scholarships**

Application Required

Value: \$2000\* 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

### *Bursaries*

#### **Bosch Rexroth Canada Bursary**

Application Required

Value: \$750\*. 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

#### **CIBC Bursary**

Application Required

Value: \$1000\*. 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

#### **Faculty of Business Bursary**

Awarded annually to a returning business student with satisfactory academic standing.

Applicants must demonstrate financial need and meet Ontario residency requirements.

#### **Susan M. (Wills) Napper Bursary in Business**

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

#### **Lester Shoalts Bursary**

Application Required

Value: \$1000\*. To be awarded, by application, to a student who is entering the Faculty of Business. The award will be renewable to graduation contingent on the recipient continuing to satisfy these terms and remaining in good standing. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Lester Shoalts Ltd.

Established: 1997

Endowed: 1997

### *Other Awards*

#### **Distinguished Graduating Student Award**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Chancellor's luncheon at Convocation.

Established: 1998.

#### **Dean's Medal for Business**

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.

#### **Edward J. Freeland Award**

Value: \$4500. Awarded to each of four students of proven financial need. Two scholarships will be awarded to students who are entering the Faculty of Business or business related disciplines, and whose admission average is 75 percent or higher. Students must be residents of the greater Fort Erie area and graduates of one of: Fort Erie

Secondary School, Lakeshore Catholic School, Niagara Christian College, Ridgeway or Crystal Beach High School. The award is renewable in each undergraduate year of full-time study, provided satisfactory academic standing is maintained.

Donor: Edward J. Freeland Foundation

Established: 1991

#### **Maurice Perkins Medal**

A gold medal and \$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

### *Accounting*

#### *Entering Student Scholarships*

#### **Crawford, Smith and Swallow Scholarship**

Application Required

Value: \$2500\*. 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

Endowed: 1997

#### **Deloitte and Touche Bill Smiley Award**

Application Required

Value: \$600\*. 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

#### **KPMG Entrance Scholarship**

Application Required

Value: \$1400\*. 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

**Niagara District Chartered Accountants Association Prize**

Value: \$1000\*. 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

*Returning Student Scholarships*

**W. Frank Cooper and Trevor C. Cooper 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

**Durward, Jones, Barkwell and Company Scholarship**

Application Required  
Value: \$1525\*. 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

**Ernst & Young Scholarship in Accounting**

Application Required  
Value: \$1230\*. 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

**KPMG In-Course Scholarship**

Value: \$1400\*. 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

*Other Awards*

**George Rasula Memorial Award**

Application Required  
Value: \$1100\*. 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

**Edith Toth Memorial Award**

Value: \$250\*. 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

*Business Administration*

*Entering Student Scholarships*

**Allen Goar Scholarship**

Application Required  
Value \$1250\*. 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

**Leo LeBlanc Scholarship in Entrepreneurship**

Application Required  
Value: \$1500\*. 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

**Leon's Scholarship**

Value: \$1850\*. 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

**The Business Education Council (BEC) of Niagara Scholarship in Business**

Application Required  
Value: \$2500\*. 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. D. G. (Bud) Willmot Scholarship in Business**

Value: \$2800\*. 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

*Returning Student Scholarships*

**Dr. Ken Fowler Scholarship in Entrepreneurship**

Application Required  
Value: \$1550\*. 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

**George Head Memorial Scholarship**

Value: \$200\*. Awarded to a student majoring in Business Administration who demonstrates superior ability in Purchasing Management MGMT 3P30.



## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

Donor: Purchasing Management Association of Canada  
Established: 1973

### Great-West Life Business Education 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

### Tomarin Scholarship in Marketing

Value: \$1350\*. 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

### Willmot Scholarship in Business Administration

Value: \$400\*. Awarded to an outstanding student majoring in Business Administration.

Donor: Mr. D.G. Willmot  
Established: 1972

### Bursaries

#### John C. Cook Memorial Bursary in Entrepreneurship

Application Required  
Value: \$950\*. 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

#### Richard R.P. Court Bursary Entrepreneurship

Application Required  
Value: \$500\*. 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

#### St. Catharines Jaycee 60th Anniversary Bursary

Application Required  
Value: \$600\*. 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

### Other Awards

#### Brock Business Administration Co-op Council Entrance Award

Value: \$250. Awarded to two entering Business Administration Co-op students with an overall average of 80% or higher. The award recipient will be chosen on the basis of academic merit, leadership skills, extracurricular activities included in a resume. The Executive Committee of the Business Co-op Council, in consultation with the Director of the Co-op Program will determine selection.

Donor: Brock Business Administration Co-op Council  
Established: 2003

#### Faculty of Business Book Prize

Awarded to a student (or students) for outstanding academic achievement in the fourth-year of a Business Administration program.

#### Sonja Bata Award for Entrepreneurship

Value: \$200\*. Awarded for the best overall combination of academic and entrepreneurial performance.

Donor: Dr. Sonja Bata  
Established: 1994

### Faculty of Education

#### Entering Student Scholarships

##### Group 2 Development Scholarship

Application Required  
Value: \$1250\*. 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

#### Returning Student Scholarships

##### The John W. Bean and Kathryn Bean Becker Scholarship

Application Required  
Value: \$1350\* 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

##### Milton Frederick Pummell Memorial Scholarship

Application Required  
Value: \$3000\*. Established by Mrs. Margarete 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. Margarette Pummell  
Established: 1997  
Endowed: 1997

#### *Bursaries*

##### **Nadine and Frank Coy Bursary**

Application Required  
Value: \$500\*. To be awarded annually, by application to a returning student in Education or BA/BEd 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

##### **Helen J. Stewart Education Bursary**

Application Required  
Value: \$1100\*. 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

##### **Mrs. Donna Nash Education 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

##### **Faculty of Education Bursary**

Application Required  
Value: \$1250\*. 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

##### **Diane Helmkay Memorial Bursary**

Application Required  
Value: \$500\* each. Three bursaries: Awarded to third- or fourth-year students in the BA/BEd concurrent program. Applicants must demonstrate financial need.

Donor: Mr. Owen Helmkay  
Established: 1993  
Endowed: 1993

#### *Other Awards*

##### **Canadian College of Teachers Award**

The award is given to students who have demonstrated academic excellence, done outstanding work at their teaching schools and who have contributed to the University community. The award is given to a student from the Elementary and Senior Division, one from each campus. The award consists of a certificate and a letter of recommendation.

##### **Dean's Award for Professional Growth**

Value: \$75\*. 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**

Awarded to the graduating student, selected by faculty members, exhibiting academic and professional excellence in Pre-Service Education.

##### **Distinguished Graduating Student Award**

Value: \$100. Awarded to the most distinguished graduate in the Pre-service Education program (one award for each of the primary/junior, junior/intermediate and intermediate/senior divisions). The prize and

a certificate will be awarded at the Chancellor's luncheon at Convocation.

Established: 1998

##### **Russell N. Eden Art 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 counsellor 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

##### **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

##### **Ontario English Catholic Teachers' Association OECTA 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**

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 counsellors in late April.

Donor: Ontario Secondary School Teachers Federation

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Science Teachers' Association of Ontario (STAO) Award

#### Application Required

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. The award includes a one-year membership in STAO. Nominees apply to Dr. Joe Engemann and Dr. Leo Elshof by April 1 including either a science curriculum unit or project; or an article to be published in "Crucible" or "Elements".

Donor: Science Teachers' Association of Ontario

Established: 2003

### Eleanor Shaw 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

### Helen J. Stewart 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

### Faculty of Humanities

#### Any Department

### Entrance Scholarships

#### Bertha and Bernard Harrison Living Legacy Scholarships

##### Application Required

Value: \$5500\*. 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

Value: \$1150\* 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 Entrance Scholarship

Value: \$3000\*. 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

#### William and Lorraine McNally Scholarship

##### Application Required

Value: \$2300\*. 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

### Returning Student Scholarships

#### The John W. Bean and Kathryn Bean Becker Scholarship

##### Application Required

Value: \$1350\* 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

#### Gertrude Millward Scholarship

Value: \$200. Awarded to a student in the Faculty of Humanities for outstanding performance.

Donor: Earl Mountbatten Chapter, IODE

Established: 1977

#### 25th Anniversary Scholarships

##### Application Required

Value: \$1950\* 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

#### Terry and Sue White Scholarships

##### Application Required

Value: \$2000\* 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

*Bursaries*

**Brock Arts and Science Bursary**

Application Required

Value: \$750\* 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

**Dr. Margaret Campbell Bursary**

Application Required

Value: \$650\*. 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

**Gail Jenkyns Memorial Bursary**

Application Required

Value: \$500. Awarded to a female student in the faculty of Humanities. Applicants must demonstrate financial need.

Donor: Canadian Federation of University Women - St. Catharines  
Established: 1987

*Other Awards*

**Distinguished Graduating Student Award**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Chancellor's luncheon at Convocation.

Established: 1998

**Dean's Medal for Humanities**

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.

*Applied Language Studies*

*Other Awards*

**Department of Applied Language Studies Award for an Outstanding Graduating Student**

Awarded to an outstanding graduating student in Applied Language Studies.

*Canadian Studies*

**Canadian Studies Book Prize**

Value: \$50. Awarded to a graduating student for high standing in Canadian Studies.

**James Nicks Memorial Prize in Canadian Studies**

Value: \$100\*. 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

*Classics*

*Returning Student Scholarship*

**Mariane LeCompte (Newton) Memorial 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

*Bursaries*

**St. Katherine Greek Orthodox Church Ladies Philoptochos Bursary**

Value: \$500. Awarded annually with first preference to a third year student majoring in Classics who has achieved the highest mark in CLAS 2P48. Second preference to a third year student majoring in Classics with the highest average. Selection will be determined by the Senate Sub-Committee on Bursaries. Students must also demonstrate financial need.

Donor: St Katherine Greek Orthodox Church Ladies Philoptochos  
Established: 2001

*Other Awards*

**Brock Archaeological Practicum Award**

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

**Department of Classics Book Prize in Greek**

Awarded to a graduating student for high standing in Greek.

Established: 1972

**Department of Classics Book Prize in Latin**

Awarded to a graduating student for high standing in Latin.

Established: 1972

**Department of Classics Book Prize in Ancient Art and Archeology**

Awarded to a graduating student for high standing in Ancient Art and Archaeology.

Established: 1972.

**Bruce Lidsten Memorial Book Prize**

Value: \$75\*. 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Niagara Peninsula Society (Archaeological Institute of America) Prize in Classical Archaeology and History

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

### Trine Varcoe Memorial 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 80 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. Terencé B. Varcoe and the Friends of the late Trine Varcoe.

Established: 2002

Endowed: 2002

### *Dramatic Arts*

#### *Bursaries*

### 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

### Elizabeth Miller Bursary

Application Required

Value: \$450\*. 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

### *Other Awards*

#### *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

#### *The F. Janet Dolman Prize in Playwriting*

Awarded to a student or students who show outstanding promise in playwriting.

Donor: Faculty and Staff Theatre Program

Established: 1989

#### *The Jane Forrest Prize in Dramatic and Theatre Arts*

Awarded to the student who excels in second-year Dramatic Literature courses.

Established: 1979

Donor: Dr. Mary Jane Miller

#### *The J. H. and J.F. Harding Prize in Dramatic Literature and Theatre*

Awarded to the student who excels in third-year dramatic literature and theatre courses.

Established: 1977

Donor: Dr. Mary Jane Miller

#### *The Jean Harding 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

#### *The M.E. and L.E. Miller Prize in Drama and Theatre Arts*

Awarded to the student who achieves the highest standing in first-year Dramatic Arts.

Established: 1971

Donor: Dr. Mary Jane Miller

#### *Norah Morgan Book Prize for Drama in Education*

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*

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

### *English Language and Literature*

#### *Returning Student Scholarships*

#### *Helen S. Bremner and the Bremner Family Memorial Scholarships*

Value: \$1200\*. 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

**Linda and Tom Goldspink Scholarship in English Language and Literature**  
Application Required  
Value: \$1200\*. 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**  
Application Required  
Value: \$1175\*. 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

#### *Bursaries*

**Harry Karowec Memorial Bursary**  
Application Required  
Value: \$100\*. Awarded to a student in great need, who is majoring in English literature.  
Donor: Mrs. Ellen Cote  
Established: 1982  
Endowed: 1982

**Mary Pat Richardson 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

#### *Other Awards*

**Eleanor Abram Prize for Fiction**  
Value: \$150. Awarded to the author of the best work of fiction published in the Harpweaver magazine.  
Donor: Ms. Patricia Abram  
Established: 1995

**The Lily Bell Memorial Award for English**  
Value: \$300. Awarded to the most deserving female student in second- or third-year English.  
Donor: Canadian Federation of University Women, St. Catharines Chapter  
Established: 1974

**Brinkman Travel Prize for Photography**  
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**  
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

**English Department Book Prize**  
Awarded to a student (or students) in third- or fourth-year for outstanding academic achievement in English.

**First-Year English Essay 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

**Harpweaver Prize for Visual Art**  
Value: \$50. Awarded to the artist of the best work of visual art published in The Harpweaver magazine.  
Donor: Dr. Alan Marcus  
Established: 1995

**Clara Hollosi Memorial Book 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

**The Carole LaMothe Memorial English Essay Prize**  
Value: \$165\*. 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

**Niagara Region English Committee 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

#### *Great Books/Liberal Studies*

##### *Entering Student Scholarship*

**Paul Branscombe Memorial Scholarship**  
Application Required  
Value: \$1250\*. 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

#### *Bursaries*

**Great Books/Liberal Studies Book Prize 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

SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

*Other Awards*

**Great Books/Liberal Studies Graduating Book Prize**

Awarded to the graduating student with highest standing in Great Books/Liberal Studies.

*History*

*Entering Student Scholarship*

**The Betty and Gordon Vallee Scholarships**  
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

*Returning Student Scholarships*

**Professor Fred Drake Scholarship**

Value: \$1150\*. 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

**W. G. Ormsby Memorial Scholarship**

Value: \$320\*. 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

**Lillie A. Traver Scholarship**

Value: \$160\*. Awarded to a student with honours standing, majoring in History.  
Donor: Miss Lillie A. Traver  
Established: 1976  
Endowed: 1976

*Bursaries*

**Effie Buck Memorial Prize in History**  
Application Required

Value: \$900\*. 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

**John Burtniak Bursary in Canadian History**  
Application Required

Value: \$980\*. 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

*Other Awards*

**The Donald G. Creighton Prize in History**

Value: \$125\*. Awarded to the student obtaining the highest mark in a first-year history course.  
Donor: W.G. (Bill) Ormsby  
Established: 1966

**Department of History Book Prizes**

Four book prizes. Awarded to outstanding students of History in all years.

**The Donald Goodspeed Book Prize**

Value: \$110\*. Awarded to the student achieving the highest academic standing in HIST 1F95.

**John M. and Barbara McEwen Book Prize in British History**

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

**Turner Book Prize in Canadian History**

Value: \$200\*. 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

**Frank and Amy Wills Memorial Award**

Value: \$250\*. 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

*Modern Languages, Literatures, and Cultures*

*Returning Student Scholarships*

**Raffaele DeLuca Memorial Scholarship**

Value: \$150\*. 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

**Joseph Dennis Scholarship in Italian**

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

*Other Awards*

**Book Prize of the Consulate General of Mexico**

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**

Awarded to an outstanding student in French.  
Donor: Consul-General de France  
Established: 1965



SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

**Department of Modern Languages: French, Italian and Spanish Graduating Book 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

**Graduating Book Prize of the Consulate General of Italy, Toronto**  
Awarded to an outstanding graduating student in Italian.  
Donor: Consul General of Italy in Toronto  
Established: 1997

**German Embassy Book 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 Embassy of Spain**  
Awarded to an outstanding student graduating in Spanish.  
Donor: Ambassador of Spain  
Established: 1999

**Niagara Italian Community Prize**  
Value: \$400\*. 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**  
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**  
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**  
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**  
A book prize to a student or students of outstanding academic achievement in German.  
Donor: Austrian Embassy  
Established: 1970

**Spanish Embassy 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**  
Awarded to outstanding students from first- and second-year who have shown excellence and promise.  
Donor: Consul General of Italy in Toronto  
Established: 1997

*Music*

*Returning Student Scholarships*

**Senior Scholarship in Music I**  
Value: \$350\*. 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: \$450\*. 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

*Bursaries*

**Neil Jones Award in Music**  
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

**Eunice Leahey Memorial Bursary in Music**  
Application Required  
Value: \$500\*. 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

**Mary Pat Richardson 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

*Other Awards*

**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

**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

**A. Whitmore Griffin Award in Music**  
Application Required  
Value: \$2400\*. Awarded to a third- or fourth-

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

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

### Niagara Symphony Award

Value: \$500. Awarded to a student entering the Bachelor of Music program on the basis of performance ability. The award will be made by the Senate Committee on Undergraduate Student Affairs based on recommendation from 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.

### Philosophy

#### Entering Student Scholarships

##### 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

#### Returning Student Scholarships

##### Professor Zygmunt Adamczewski Scholarship

Application Required

Value: \$500\*. 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

##### Frederick William Ford Scholarship

Application Required

Value: \$500\*. Awarded by application to a student who has completed their first-year of study (five 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

##### Father John Nota Scholarship

Application Required

Value: \$500\*. Awarded by application to a student who has completed their second-year of study (10 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

##### Doris Senior Award

Application Required

Value: \$500\*. 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

##### Woodie (George) Woodwood Memorial Scholarship in Philosophy

Application Required

Value: \$1250\*. 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

### Bursaries

#### Edward and Sharon Arnold Bursary

Application Required

Value: \$500\*. 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

### Other Awards

#### 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

### Visual Arts

#### Returning Student Scholarships

##### Senior Scholarship in Visual Arts

Value: \$400\*. 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.

Donor: The Late Dr. and Mrs. J.A. Gibson

Established: 1988

Endowed: 1988

*Bursaries*

**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

*Other Awards*

**Harpweaver Prize for Visual Art**

Awarded to the artist of the best work of visual art published in *The Harpweaver* magazine.

Donor: Dr. Alan Marcus

Established: 1995

**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

**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

**The 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

**VISA Faculty Award**

Awarded to the student who has shown excellence over three or four years of study in studio and/or art history.

Donor: VISA Faculty

*Faculty of Mathematics and Science*

*Any Department*

*Entering Student Scholarships*

**Abitibi Scholarship in Science**

Value: \$1250\* each. Awarded to a student entering the first year of a Science program. The award is renewable contingent upon maintaining a minimum "b" average in the program of study. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Niagara/Baie Comeau Community Foundation

Established: 1997

Endowed: 1997

**Bertha and Bernard Harrison Living Legacy Scholarships**

Application Required

Value: \$5500\*. 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**

Value: \$1150\* 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 Entrance Scholarship**

Value: \$3000\*. 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

**General Motors of Canada Brock Scholars Award**

Application Required

Value: \$2500\*. 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 80% 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

**William and Lorraine McNally Scholarship**

Application Required

Value: \$2300\*. 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

*Returning Student Scholarships*

**The John W. Bean and Kathryn Bean Becker Scholarship**

Application Required

Value: \$1350\* 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### **Technology Group (Machine and Electronic Shop) Scholarship**

Value: \$1500\*. Awarded to a Canadian citizen who 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

### **25th Anniversary Scholarships**

Value: \$1950\* 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

### **Terry and Sue White Scholarships**

Value: \$2000\* 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

### **Goldsmith-Wyatt Mathematics and Science Scholarship**

Application Required

Value: \$6500\*. 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

## *Bursaries*

### **Brock Arts and Science Bursary**

Application Required

Value: \$750\*. 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

### **Dr. Cora M. Briant Bursary for Women**

Application Required

Value: \$1750\*. 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**

Value: \$650\*. 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**

Application Required

Value: \$1250\*. 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

### **Hiatt Bursary in Chemistry**

Application Required

Value: \$650\*. 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

### **Jaeger Family Bursary for Women**

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

### **Muller Bursary in Science**

Application Required

Value: \$500\*. 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

### **Ursino Family Bursary**

Application Required

Value: \$1500\*. Made annually to a second or third year student who has a minimum 70 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/BEEd 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

## *Other Awards*

### **Dean's Medal for Mathematics and Science**

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.

**Distinguished Graduating Student Award**  
Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Chancellor's luncheon at Convocation.  
Established: 1998

**Dr. David Moule Award**  
Value: \$250\*. 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

**Siashadal Inc. Undergraduate Prize in International Science**  
Value: \$200. Awarded at Spring or Fall Convocation by the Director of Brock International to the best Honours BSc Thesis or essay conducted on a project that is located outside North America. In the event that no candidates can meet these criteria, then the award will be presented on a topic dealing with the internationalization of science.  
Donor: Siashadal Inc.  
Established: 2000

*Biological Sciences*

*Entering Student Scholarships*

**The Betty and Gordon Vallee Scholarships**  
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

*Bursaries*

**3M 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

**Dr. Arthur Wiebe Bursary**  
Application Required  
Value: \$500\*. 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

*Other Awards*

**Biology Faculty Book Prizes**  
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.

**Dr. M. S. Manocha Memorial 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

*Biotechnology*

*Returning Student Scholarship*

**Martin S. Gibson 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

*Other Awards*

**Society of Chemical Industry Merit 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

*Chemistry*

*Returning Student Scholarships*

**M. J. (Mel) Farquharson Scholarship**  
Value: \$1100\*. 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**  
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

**Scholler Foundation Scholarship**  
Application Required  
Value: \$1700\*. Awarded to a student of honours standing majoring in Chemistry.  
Donor: Scholler Foundation  
Established: 1973  
Endowed: 1973

*Bursaries*

**3M 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

in need of financial assistance.

Donor: 3M Canada Inc.

Established: 1992

### Hiatt Bursary in Chemistry

Application Required

Value: \$650\*. Awarded annually, by application to a student who is majoring in Chemistry or a Chemistry related program (joint majors, BSc/BEd, 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

### Mary Rixey Richardson Bursary

Application Required

Value: \$500\*. 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

### Other Awards

#### Canvision Optical Award - Organic Chemistry

Value: \$500. Awarded to a third year student with a single or combined major in Chemistry, who has the highest combined average in four of the seven courses in Organic Chemistry (currently 2P20, 2P21, 2P63, 3P20, 3P21, 3P62, 3P63). The student must have a minimum average of 80 percent. The award will be made on the recommendation of the Chair of the Department of Chemistry.

Donor: Canvision Optical

Established: 2000

#### The Canadian Society for Chemistry 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

#### E. A. Cherniak Founders Prize in Chemistry

Value: \$200\*. Awarded to the best third- or fourth-year Chemistry major or combined major.

Donor: Faculty and Staff, Department of Chemistry

Established: 1993

Endowed: 1993

#### Brenda Gibson 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

#### Blema Miller Book 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

#### Gail I. Neff Award: Chemistry Demonstrator of the Year

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

#### Society of Chemical Industry Merit 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

### Computer Science

#### Returning Student Scholarships

##### Acres International Award

Application Required

Value: \$750\*. 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

#### Silicon Knights 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

### Bursaries

#### Information Technology Services Bursary

Application Required

Value: \$500\*. 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

#### Hank van Rotterdam Bursary

Application Required

Value: \$2200\*. 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

### Other Awards

#### Department of Computer Science Book Prizes

Four book prizes; awarded to the student in each year with the highest marks in Computer Science courses.

Established: 1981

*Earth Sciences*

*Entering Student Scholarship*

**J.P. Bickell Foundation 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

*Bursaries*

**Professor Bruce A. Liberty Memorial Bursary**

Application Required

Value: \$480\*. 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

**Ed Mirynech Bursary**

Application Required

Value: \$100\*. 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

*Other Awards*

**The Canadian Society of Petroleum Geologists Book 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**

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

**The Edhorn Prize in Paleontology**

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

**Earth Sciences Award**

Awarded by the Department of Earth Sciences to students with the highest average in second-, third- or fourth-year Earth Sciences.

**The Geological Association of Canada Book Prize**

Awarded to the best third-year student in Earth Sciences.

Donor: Geological Association of Canada

**Mineralogical Association of Canada Book 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

**Brian Parker Memorial 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

**Peter Peach Memorial Award**

Value: \$150\*. Awarded to the student with the highest mark at field camp - ERSC 3P99.

Donor: Department of Earth Sciences

**Walker Brothers Award**

Value \$500\*. 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

*Mathematics*

*Returning Student Scholarship*

**Ian D. Beddis Family Scholarship**

Application Required

Value: \$1300\*. 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

*Bursaries*

**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

*Other Awards*

**J. W. Reed Book Prizes in Mathematics**

Two book prizes; Awarded to one female and one male student, graduating with first-class honours in Mathematics.

Donor: J. W. Reed

Established: 1991

*Neuroscience*

**Vincent Fitzgibbon - Brain Injury Community Re-entry (Niagara) Inc. 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



SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

*Oenology and Viticulture Program*

*Entering Student Scholarships*

**Roy Cairns Scholarship**

Application Required

Value: \$6000\*. 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

**Katherine and Jacob Hildebrand Scholarship**

Application Required

Value: \$2300\*. Awarded to a student entering the Cool Climate Oenology and Viticulture Institute. Applicants must demonstrate financial need and meet Ontario residency requirements. The award is renewable provided satisfactory academic standing is maintained and financial need is demonstrated.

Donor: Katherine and Jacob Hildebrand

Established: 1998

Endowed: 1998

**Sullivan Mahoney Scholarship**

Application Required

Value: \$1500\*. Awarded annually, by application to an incoming student who is enrolled in the Cool Climate Oenology and Viticulture program. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Sullivan Mahoney

Established: 1997

Endowed: 1997

**Harrison McCain Foundation Scholarship**

Application Required

Value: \$2500-5000. Awarded to a student entering the CCOVI program who is a graduate of an Atlantic Canada High School. The candidate must possess an 80% average and demonstrate outstanding leadership qualities. Applicants must demonstrate financial need. This scholarship is renewable pending the recipient maintain a 75% average in their program.

Donor: Harrison McCain Foundation

Established: 2002

**Domenica and Andy Panko Scholarship in Oenology and Viticulture**

Application Required

Value: \$2950\*. 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

**Jackson-Triggs 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

*Returning Student Scholarships*

**Alumni CCOVI 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**

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**

Application Required

Value: \$1300\*. 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

**LCBO Scholarship**

Value: \$2500 The award will be made annually to two students whom are participating in the Brock Cool Climate Oenology and Viticulture Program. Student must have a minimum average of 75% to be eligible for this scholarship.

Donor: Liquor Control Board of Ontario

Established: 2002

**Ontario Grape Growers Marketing Board 50th Anniversary Scholarship**

Application Required

Value: \$1450\*. Awarded by application with preference given to a first-year or upper year student enrolled as an undergraduate in the Cool Climate Oenology Viticulture program whose family are grape grower members of the Ontario Grape Growers' Marketing Board. Applicants must demonstrate financial need and meet Ontario residency requirements.

Donor: Ontario Grape Growers Marketing Board

Established: 1997

Endowed: 1997

**Ontario Hostelry Institute Oenology and Viticulture Year Three Scholarship**

Value: \$3500. Awarded annually to support a student entering their third year in the field of Oenology and Viticulture. The award recipient will be chosen on the basis of academic merit, extracurricular activities,

work experience and letters of recommendation reviewed by a committee of the Ontario Hostelry Institute. To apply, visit: [www.ohischolarships.com](http://www.ohischolarships.com)  
Donor: Ontario Hostelry Institute  
Established: 1999

#### **Royal Bank Scholarship**

Application Required  
Value: \$2400\*. 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

#### **Bursaries**

##### **Margaret Woodrow 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

#### **Other Awards**

##### **Dante Marinelli Oenology and Viticulture Book Prize**

Value: \$125. Awarded in memory of Dante Marinelli to a student or students in the Cool Climate Oenology and Viticulture Program.  
Donor: Broderick & Partners  
Established: 1997

#### **Physics**

##### **Returning Student Scholarship**

##### **Lubrizol Canada Ltd. Scholarship**

Value: \$600\* 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

#### **Bursaries**

##### **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

##### **John and Laura Moore Bursary**

Application Required  
Value: \$500\*. 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

#### **Other Awards**

##### **Canvision Optical Award - Physics**

Application Required  
Value: \$500. Awarded to a third year student with a single or combined major in Physics, who has the highest mark in the Introduction to Classical and Modern Optics course (currently 2P51). The student must have a minimum average of 80 percent. The award will be made on the recommendation of the Chair of the Department of Physics.  
Donor: Canvision Optical  
Established: 2000

##### **Physics Book Prize**

Awarded to one or more outstanding students in physics.

#### **Faculty of Social Sciences**

##### **Any Department**

##### **Entering Student Scholarships**

##### **Bertha and Bernard Harrison Living Legacy Scholarships**

Application Required  
Value: \$5500\*. 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**

Value: \$1150\* 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 Entrance Scholarship**

Application Required  
Value: \$3000\*. 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

##### **William and Lorraine McNally Scholarship**

Application Required  
Value: \$2300\*. 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

#### **Returning Student Scholarships**

##### **The John W. Bean and Kathryn Bean Becker Scholarship**

Application Required  
Value: \$1350\* 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

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

### Niagara Regional Development Council Scholarships

Application Required

Value: up to \$3900\*. 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

### 25th Anniversary Scholarship in Social Science

Value: \$1950\*. 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

### Terry and Sue White Scholarships

Application Required

Value: \$2000\* 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

### Bursary

#### Brock Arts and Science Bursary

Application Required

Value: \$750\* 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

### Other Awards

#### Dean's Medal for Social Sciences

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.

#### Distinguished Graduating Student Award

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Chancellor's luncheon at Convocation.

Established: 1998

### Child and Youth Studies

#### Other Awards

#### Child and Youth Studies Book Prizes

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

Value: \$250\*. 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

### Child and Youth Studies/Education

#### Margaret A. Clifford Memorial Award

Application Required

Value: \$600\*. Awarded annually by application, to a student who has been admitted to the BA/BEd 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

#### Kimberly Wells Memorial Book Prize

Value: \$150\*. Awarded to a student graduating from the BA/BEd (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

### Communications, Popular Culture and Film

#### Entering Student Scholarship

#### E.S. Rogers Communications Inc. 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

#### Returning Student Scholarship

#### E. S. Rogers Communications In-Course Scholarships

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

*Bursaries*

**Anita Skinner Bursary in Communications Studies**

Application Required  
Value: \$500. 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, through the Niagara Community Foundation, Anita Skinner Fund  
Established: 2002

**Warren Hartman 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

**David R. Wills Bursary in Communication Studies**

Application Required  
Value: \$750\*. 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

*Other Awards*

**The Ken Boyle Cobra Radio Memorial Book Prize**

Value: \$300. 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

**Sumner and Helen Grant Award in Popular Culture**

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

**L. Amy Kerr Book 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

**The Anne Perozuk Book Prize in Critical Writing**

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  
Endowed: 1993

**Sam and Sophie Yacowar Memorial Prize in Film Studies**

Awarded to the Film Studies major or combined major with the highest standing in two or more film courses in third- or fourth-year.  
Donor: Maurice Yacowar  
Established: 1989

*Economics*

*Returning Student Scholarship*

**Ian D. Beddis Family Scholarship**

Application Required  
Value: \$1300\*. 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

*Bursaries*

**Thomas Clifford (Bud) Kells Memorial Bursary**

Application Required  
Value: \$600\*. 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

*Other Awards*

**Department of Economics Book Prize**

Awarded to a graduating student in Economics, Business Economics or Environmental Economics who has demonstrated outstanding achievement in economics.

*Environment*

*Bursaries*

**Robert C. Hoover Bursary**

Application Required  
Value: \$600\*. Awarded by application to a full-time student in years 2, 3 or 4 of a combined major in the Centre for the Environment maintaining a minimum academic average of 70 percent or better. Awarded on the advice of the Director, Centre for the Environment. Applicants must demonstrate financial need and show academic promise. Applicants must also include in the application a letter addressed to the Director, Centre for the Environment, indicating their desire to apply for the bursary and explaining how they meet the requirements.  
Donor: Friends and Colleagues of Professor Emeritus Dr. Robert C. Hoover  
Established: 1985

**Howard Martin Memorial Bursary**

Application Required  
Value: \$375\*. Awarded by application to a full-time student in years 2, 3 or 4 of a major in the Centre for the Environment maintaining an acceptable academic average. Awarded on the advice of the Director, Centre for the Environment; a representative from the Niagara Falls Nature Club will be involved in the selection process. Applicants must demonstrate financial need, an interest in the natural environment and a desire to communicate their interest to others. Applicants must also include in the application a letter addressed to the Director, Centre for the Environment, indicating their desire to apply for the bursary and explaining how they meet the requirements.  
Donor: The Niagara Falls Nature Club  
Established: 1991

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Larry Sweeney 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 percent or better. The Bursary Officer will forward the completed bursary application form to the Director of the Centre for the Environment. Applicants must write to the Director indicating their desire to apply for the bursary. Applicants must also meet Ontario residency requirements.

Donor: FirstOntario Credit Union Limited

Established: 1991

Endowed: 1991

### Other Awards

#### Frank Banfield Memorial Book Prize

Value: \$50. Awarded to a graduating student in recognition of academic standing and contribution to the Centre for Environment.

Donor: Centre for Environment

### Geography

#### Returning Student Scholarship

#### Helen S. Bremner and the Bremner Family Memorial Scholarship in Geography

Value: \$1200\*. Awarded to a student majoring in Geography. The recipient 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

### Bursaries

#### Gary Cornelius Bursary in Geography

Application Required

Value: \$1000\*. 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

#### Dr. Gerald Nash Geography 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

### Other Awards

#### The Marie and Laurence Barber Award

Value: \$750\*. 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

#### Canadian Association of Geographers (CAG) 2000 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

#### Canadian Association of Geographers Book 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

#### Department of Geography Graduating Prize

Value: \$50. 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

Value: \$50\*. 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

#### Edythe and William Meeker Memorial Book Prize

Value: \$120\*. 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

### Political Science

#### Returning Student Scholarships

#### William H. N. Hull Scholarship in Politics

Value: \$300\*. 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

#### Father Sean O'Sullivan Scholarship

Value: \$2250\*. 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

#### Mel Swart Scholarship

Application Required

Value: \$1300\*. 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

### Bursaries

#### William Matheson Bursary

Application Required

Value: \$1100\*. 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

**Rita Welch 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

*Other Awards*

**Dr. James A. Gibson Book Prize in Political Science**  
Value: \$150\*. 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

**John R. Keen Book Prize in Canadian Political Science**  
Application Required  
Value: \$350\*. 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

**Political Science Book Prizes**  
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**  
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

**Political Science 25th Anniversary Book Prize**  
Value: \$50\*. Awarded to an outstanding student in Political Science.  
Donor: Department of Political Science  
Established: 1995

**The Purple Chair 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

*Psychology*

*Returning Student Scholarship*

**Vincent Fitzgibbon - Brain Injury Community Re-entry (Niagara) Inc. 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

**John Lavery Scholarship**  
Application Required  
Value: \$1250\*. 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

*Bursaries*

**Nancy Johnston Bursary in Developmental Psychology**  
Application Required  
Value: \$990\*. 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  
Established: 1997  
Endowed: 1997

*Other Awards*

**The Cara Cherfurka Memorial Book Prizes**  
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

**Psychology 3F40 Prize**  
Value: \$50\*. Awarded to the PSYC 3F40 student with the most outstanding research project.  
Donor: Department of Psychology

*Sociology*

*Bursaries*

**Morris Berkowitz Memorial Bursary**  
Application Required  
Value: \$300\*. 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 demonstrable need and a major average of 75 percent or better in his or her most recent year of study.  
Donor: Friends of the late Professor Berkowitz  
Established: 1981  
Endowed: 1981

**SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE**

**Jean Luck Memorial Bursary**

Application Required  
Value: \$500\*. 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

**Melvin Perlman Bursary**

Application Required  
Value: \$500\*. Awarded to an upper year student with a declared major in Sociology with a minimum average of 70 percent. Applicants must demonstrate financial need and meet Ontario residency requirements.  
Donor: The Family and Friends of Dr. Melvin L. Perlman  
Established: 2001  
Endowed: 2001

*Other Awards*

**P. A. Sorokin Book Prize in Sociology**

Value: \$75. A fall convocation book prize, normally awarded to a fourth-year graduating student in Sociology, whose thesis or class project as well as general academic performance are judged by the faculty to be outstanding.

Donor: Department of Sociology

*Women's Studies*

*Returning Student Scholarships*

**Dr. Susan Clark Scholarship in Women's Studies**

Application Required  
Value: \$1250\*. 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

**Melvin Perlman Scholarship**

Value: \$500\*. Awarded to the best all-round student in the Women's Studies Program. Student must have a minimum average of 75 percent. 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

*Bursaries*

**Mallie Frances Jones Bursary**

Application Required  
Value: \$500\*. To be awarded to a student in Women's Studies (single or joint major) who exhibits academic promise (70 percent 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

*Other Awards*

**Rosalind (Hyman) Blauer Award**

Value: \$500\*. 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.

**Josephine Meeker Research Fund in Women's Studies**

Application Required  
Value: \$250\*. 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

**The Nellie Award in Women's Studies**

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

**Hazel M. Wood Prize**

Application Required  
Value: \$125\*. Awarded to a student, in any year, 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



# Experiential Learning Opportunities at Brock University

*to Cindy - 201.1*

## 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/*

### 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.

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 Language Studies - Applied Linguistics Stream  
(BA Honours, 4 yrs)

Applied Language Studies - Teaching English as a Second Language Stream  
(BA Honours, 4 yrs)

Biochemistry  
(BSc Honours, 5 yrs)

Biotechnology  
(BSc Honours, 5 yrs)

Business Administration  
(BBA Honours, 5 yrs)

## EXPERIENTIAL LEARNING OPPORTUNITIES

Business Economics  
(BBE, 4.5 yrs)

Chemistry  
(BSc Honours, 4.5 - 5 yrs)

Communications - Business  
Communications Stream  
(BA Honours, 4 yrs)

Communications - Communications Policy  
Stream  
(BA Honours, 4 yrs)

Communications - Information Technology  
Stream  
(BA Honours, 4 yrs)

Communications - Media and Culture Stream  
(BA Honours, 4 yrs)

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)

Film Studies  
(BA Honours, 4.5 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)

Popular Culture  
(BA Honours, 4 yrs)

Psychology  
(BA Honours, with a Major, 5 yrs)

### III. Practica and Course-based Experiential Learning

#### 1. 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*  
Sherry Seibel

905-688-5550, extension 3242  
Schmon Tower 411  
Hours: Monday - Friday - 8:30 - 4:30  
Tuesday - 8:30 - 7:00 pm  
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  
Paulene Peer

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:

## EXPERIENTIAL LEARNING OPPORTUNITIES

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 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](http://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 or your Experience *Plus* Record go to Career Services on the 4<sup>th</sup> 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  
Mark Portfolio  
905-688-5550, extension 3106  
[www.brocku.ca/experienceplus/medplus](http://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 1<sup>st</sup> 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 Associate Vice-President

*Associate Vice-President, Student Services*  
Kim Meade

*Assistant to the Associate Vice-President,  
Student Services*  
Rose Delazzer

905-688-5550, extension 3418  
Schmon Tower 401

Monday to Friday: 8:30 a.m. - 4:30 p.m.  
Closed: 12:00 p.m. - 1:00 p.m.

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's office co-ordinates several committees which provide a forum for student input on issues such as student affairs, campus accessibility, equity, race relations, non-academic discipline, tobacco policy, campus alcohol policy and education.

The Associate Vice-President is available to assist students with their concerns. Students are invited to contact the Administrative Assistant to arrange an appointment. 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  
Campus Ministries - Brock Multifaith Centre  
Career Services  
Health Services  
Office of the Registrar  
Academic Advising  
Academic Appeals  
Admissions  
Examinations and Scheduling  
Recruitment and Liaison Services  
Student Information  
Student Records and Registration Residence  
and Food Services  
Student Awards and Financial Aid

## II. Student Development Centre

*Administrative Assistant*  
Peggy Karges

905-688-5550, extension 3240  
Schmon Tower 400  
[www.brocku.ca/studentdevcentre](http://www.brocku.ca/studentdevcentre)

### 1. Aboriginal Student Services

*Adviser*  
Sean Hoogterp

905-688-5550, extension 4273  
Mackenzie Chown C302  
Monday-Friday: 8:30 a.m. - 4:30 p.m.  
[www.brocku.ca/studentdevcentre/aboriginal](http://www.brocku.ca/studentdevcentre/aboriginal)

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.
- Assist secondary and college students with the application process.
- Offer 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 ✓

*new*  
*Learning Skills Instructor*  
Thyra Evans  
Jill Brindle

905-688-5550, extension 3114  
Schmon Tower 400  
[www.brocku.ca/studentdevcentre/learning](http://www.brocku.ca/studentdevcentre/learning)

Learning Skills Services helps you as a Brock student improve your academic success at university. Assistance is available to help you with any study or writing issues that arise while you are a student at Brock. These issues may range from the challenges of transition from high school to university, to preparing for upper-year exams or writing your honours thesis. Learning Skills Services will help you develop the study strategies you need to reach your full learning potential.

A variety of workshops is available throughout the year for a nominal fee. Workshops will address students' study skills needs in areas such as: managing your time, taking notes, reading, writing university essays, preparing for exams and more. Collaborate with a group of your new Brock friends: any group of five students can "order a workshop" at a time

convenient to them. In addition, *Study Write!*, our drop-in service, is available to assist you with your studying or learning issues. Check at ST400 for days and times.

### 3. Personal Counselling Services ✓

*Manager*

Les McCurdy-Myers, extension 4123

*Appointments, 905-688-5550, extension 4750  
Schmon Tower 400  
www.brocku.ca/sdc/counselling/brochure.html*

Personal Counselling Services provides three key areas of service to the Brock community:

Group and individual services to students who are experiencing social/personal difficulties while studying at Brock; leadership development; and consulting with students, faculty and staff.

Personal Counselling Services assists Brock students with personal concerns in a number of ways. Many students seek help with specific concerns about relationships, self-confidence, weight preoccupation, loneliness, loss, stress management, sexuality, academic difficulties etc. Others ask for our help on less clearly defined issues such as low motivation or a feeling that things just are not right. If something is bothering you, there is someone objective who can help with:

Professional, confidential, individual counselling, at no cost to you. Individual counselling is typically short-term, averaging three sessions and builds on students' strengths.

Multiple session group programs developed to meet students' interests.  
Responding to crises situations throughout the Brock community.  
Self-help materials in our resource area.

Personal Counselling Services provides leadership development by:

Designing and facilitating training workshops for student and staff groups in areas such as basic listening skills, meeting/group skills, stress management and team building; and providing on-going clinical supervision with student groups such as the residence life staff and the financial peer assistants.

Offering the Foundations in Leadership practica series.  
*www.brocku.ca/sdc/leadership*

Our Manager acts as a consultant to the Brock University community in a number of areas by:

Providing psycho-educational programming on topics such as anger management, grieving and assertiveness.

Advising students, faculty and staff who are concerned about the behaviour of someone they know.

Assisting with student projects, theses and seminars.

Fostering and assisting in the development of self help groups.

Acting as liaison with the Residence Life.

To meet with a Counsellor/Therapist to see if we can help, just call extension 4750 or drop in to ST400 to set up an appointment. Evening and off-campus appointments can be arranged. Whatever your concern, you do not have to be alone.

### 4. Services for Students with disABILITIES

*Manager*

Judith Brooder

*905-688-5550, extension 4122  
Schmon Tower 400  
www.brocku.ca/studentdevcentre/  
disABILITIES*

Brock encourages and supports the full participation of students with disabilities in all aspects of campus life. Services for Students with disABILITIES 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 your 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 and in locked carrels in the Library. 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 17 accessible housing units on campus;

attendant care: limited attendant care service is available through the Ontario March of Dimes. If you require in 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. This exchange will in no way impact your acceptance at Brock. After being admitted to Brock, you must make an appointment with your case manager 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 ✓

*University Discipline Officer*

Mark Solomon

*905-688-5550, extension 3240  
Schmon Tower 400  
www.brocku.ca/studentdevcentre/discipline*

The University Discipline Officer provides advice and support to students, faculty and staff related to issues of non-academic discipline for students. The University Discipline Officer sits on the Committee on Non-Academic Discipline to advise on policy and procedures, supervises the training, organization and implementation of student peer Discipline Hearing Panels, attends hearings, and relays hearing decisions to individual students, the Associate Vice-President (Students Services), Campus Police and, where appropriate, the

3500  
1500

## STUDENT SERVICES AND ACADEMIC SUPPORT

BUSU Business Manager, the Director of Residences and others. For more information on Non-Academic Discipline, see the University Calendar (Code of Student Conduct and Appeals in Non-Academic Matters, or see Brock's web site [www.brocku.ca](http://www.brocku.ca)).

### III. Campus Ministries-Brock Multifaith Centre

Reverend George Addison  
(Anglican, Presbyterian, United Ecumenical Chaplain)  
Reverend Br. Raoul Masseur  
(Roman Catholic Ecumenical Chaplain)  
Reverend Dr. Andre Basson  
(Christian Reformed Ecumenical Chaplain)

905-688-5550, extension 3977, 4764 or 3134  
Decew Residence 216 and 217  
[www.brocku.ca/ministries](http://www.brocku.ca/ministries)

#### 1. Chaplains' Office/Campus Ministries Centre

Campus Ministries believes that spiritual development is an integral part of the university experience and provides, ecumenical worship, R.C. Sunday Mass, social justice education, solidarity experiences abroad, spiritual direction, academic resources, faith-academic training programs, pastoral counseling, workshops, seminars, extracurricular Theology courses, international academic connections, religious based students 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 a 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.

#### 2. Rita Welch Meditation Centre

The Rita Welch Meditation Centre located in A302, next to the Senate Chambers, was dedicated April 10, 1996. 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 of all faiths who wish

to use it for spiritual/religious purposes. For use at a particular time it can be booked through Campus Ministries. The Centre is open daily from 8:00 a.m. to 9:00 p.m. and at other times as arranged. During the academic year a monthly schedule of events is posted in the glass case outside the Centre.

#### 3. 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:

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 by Brock faith groups for small group meetings and interfaith dialogue. Contact the Chaplains for information or to schedule events.

### IV. Career Services

Director  
Amy Elder

Administrative Assistant  
Sherry Seibel

905-688-5550, extension 3242  
Schmon Tower 411  
[www.brocku.ca/career](http://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:

**Career Centre** - Our Career Centre contains a library of resources pertaining to career exploration, job search, employment trends, educational and employment directories, 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 Fair, Graduate Fair, Volunteer Fair, and more. These fairs are usually all day events, hosted on-campus, 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 Thursday: 8:30 am - 4:30 pm*  
*(closed 12:00 - 1:00)*  
*Friday: 8:30 am - 4:30 pm (closed 12:00 - 1:00)*  
*Walk-In Clinic - Thursday: 4:30 pm - 7:30 pm*  
*Closed: May - August*  
[www.brocku.ca/healthservices](http://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 full-time students at registration covers many value added services including the Health Education Program etc. Students with special needs who are carrying fewer than three credits, but for whom this is a full-time academic load, can request to pay the full-time student health fee and thus be eligible to access all services at Student Health Services. Students wishing to be considered should contact the Student Development Centre.

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.

### 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.

*new Oct. 25*  
VI. International Services ✓

*Director*  
John Kaethler

*Assistant Director*  
Geeta Powell

905-688-5550, extension 4318  
Decew Residence R209  
[www.brocku.ca/international](http://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 the Assistant 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.

### 2. International Plus Program

International Services, along with Career Services, coordinates the International Plus Program. International Plus offers students a unique opportunity to gain international experience without having to leave 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.

### 3. 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. Peer partners can help international students adjust to life at Brock.

### 4. International Study, Employment and Development

International Services assists Canadian students interested in studying or working in



## STUDENT SERVICES AND ACADEMIC SUPPORT

other countries. They administer exchange programs to Argentina, Australia, Austria, Brazil, Finland, France, Ghana, Hong Kong, Japan, Korea, Mexico, Netherlands, New Zealand, 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 work and study programs in developing countries, and the Office is also responsible for international development activities on campus.

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### VII. Office of the Registrar

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#### *Registrar*

Barb Anderson

#### *Deputy Registrar*

Kevin J. Kiss

#### *Assistant to the Registrar*

Linda Rynberk

905-688-5550, extension 3550

Schmon Tower 301

[www.brocku.ca/registrar](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  
Admissions  
Examinations and Classrooms  
Recruitment and Liaison Services  
Scheduling  
Student Information  
Student Records and Registration

Our office hours are Monday - Thursday, 9:00 a.m. to 5:00 pm, and Friday 9:00 - 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.

### 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/liaison](http://www.brocku.ca/liaison)

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;
- 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. 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.

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### VIII. Residence and Food Services ✓

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#### *Director, Residence and Food Services*

James R. Fleming

DeCew Residence, R206

tel: 905-688-5550 ext.3370

e-mail: [res@brocku.ca](mailto:res@brocku.ca)

[www.brocku.ca/residence](http://www.brocku.ca/residence)

#### Residences

The Brock residence system can accommodate a total of 2,400 students 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 and all use a meal plan in a residence dining hall. Those living in townhouses share a "unit" with two, three or four other students and have the option to do their own cooking.

There are four traditional-style residences: DeCew and Lowenberger Residences have accommodations in single and double rooms and a self-contained dining hall; Vallee and Earp Residences are all single rooms and students eat in the same dining hall as DeCew residents. All traditional style residences have common lounges and/or study rooms, as well as laundry facilities.

The townhouse style residences combine the 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 bedroom units.

All residence rooms are furnished with basic necessities and all, except Quarry View, 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, whether through the Residence Action Councils or volunteering for "crew" or by participating in residence activities and events.

The majority of beds within residence are assigned to incoming Year One students. There are no specific beds assigned to graduate students. 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. There are 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.

#### Food Services ✓

Sodexo offices are located in DeCew Residence (between stairwells 9 and 10)  
tel: 905-688-5550 ext. 3372  
e-mail: mealplan@brocku.ca  
[www.brocku.ca/foodservices](http://www.brocku.ca/foodservices)

There are several food service outlets on campus, operated by the University's food service provider, Sodexo. With a complement of managers and staff, Sodexo provides food service in the Tower Cafeteria, Walker Complex Food Court, two Tim Hortons and two residence dining halls. Also, Sodexo is responsible for catering numerous events within the University, ranging from small coffee breaks to large banquets. Students may purchase Declining Cash Balance (DCB) for as little as \$100 for use at Sodexo outlets on campus as well as a few off campus restaurants and a nearby Shoppers Drug Mart. The Brock University Students' Union operates a number of food services on campus, including Union Station and Isaac's Skybar within the Students' Union Building.

#### IX. Off-Campus Housing Services ✓

Off-Campus Housing Officer  
Brad Clarke

DeCew Residence R207  
905-688-5550, extension 3721  
[www.brocku.ca/och](http://www.brocku.ca/och)

Off-Campus Housing Services 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 living. Additionally, if students have questions about the Tenant Protection Act, leases or municipal by-laws, the Off-Campus Housing Officer can help to find the answers and available resources. Off-Campus Housing Services also operates a housing mediation service, providing student tenants, landlords and residents a forum where they can discuss concerns that may arise with a neutral third party.

#### X. Student Awards and Financial Aid ✓

Director  
Rico Natale

905-688-5550, extension 3443  
Schmon Tower 402  
[www.brocku.ca/safa](http://www.brocku.ca/safa)

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.

#### XI. Day-care Centre

Director  
Leah Lautenbach

905-688-5550, extensions 3515 and 4433  
Day-care Centre  
[www.brocku.ca/daycare](http://www.brocku.ca/daycare)

The Rosalind Blauer Centre for Child Care offers licensed day care for 56 children from three months to five years, 12 months per year. A school age program for six to 12 year old children is available during the summer months. The Centre offers full- and part-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 those families who qualify.

#### XII. Harassment Prevention Services ✓

Harassment Prevention Adviser  
Lynne Bubic

905-688-5550, extension 4019  
Decew Residence R221  
[www.brocku.ca/lohps](http://www.brocku.ca/lohps)

Harassment means engaging in a course of vexacious conduct which is known or ought reasonably to be known to be unwelcome. Unwanted attention of a sexual or gender-oriented nature is referred to as sexual harassment and may include sexual advances, requests for sexual favours, sexual touching, and suggestive or demeaning remarks. Brock University endeavours at all times to provide a learning and working environment that allows for the free and full participation of all members of the community. Harassment undermines these objectives and violates fundamental human rights. Consequently, it is considered by the University to be a serious offence. For more information visit our website.

### XIII. University Library ✓

*University Librarian*  
Margaret Grove

*Assistant to the University Librarian*  
Fatima Noorbhai

905-688-5550, extension 3226  
*Schmon Tower*  
[www.brocku.ca/library/](http://www.brocku.ca/library/)

The Library is central to the academic programs of the University. Its function is to provide access to information in a variety of formats, and to provide services that support the effective use of information, in order to support both teaching and research. The University Library system includes the James A. Gibson Library, which is the main research library, and the Map Library.

The James A. Gibson Library is housed on eight floors of the Schmon Tower, the focal point of the campus. All students have access to its collections, which contain over 1.5 million items. Individual study space and specialized seating is available for more than 775 users. The Library is open for 90 hours each week, including evenings and weekends. Library hours are extended during exam periods.

Detailed information on collections, services and hours can be found in a series of printed guides available on the main floor of the Library. This information is also available on the Library's web site ([www.brocku.ca/library/](http://www.brocku.ca/library/)).

#### Access to Resources

Access to the collections is available through the online catalogue, which may be searched from computer workstations on each floor of the Library. Access to library resources is also available throughout the University and from off campus.

The library home page ([www.brocku.ca/library/](http://www.brocku.ca/library/)) offers direct access to the online catalogue, a large number of electronic databases, over 12,000 full text electronic journals and a broad range of other subject resources, including specially designed gateways to subject-specific web resources.

#### Assistance in Using the Library

Librarians and reference assistants staff the Reference Information Desk on the main floor to assist in the use of the collections and other resources. Individual and group library orientation tours are provided at the beginning of term. Library instruction and subject-related seminars designed to teach students about research are scheduled on request. Special services are provided for students who are taking courses at off-campus teaching sites. Details on these services may be obtained from the Reference Information Desk or from the library web pages.

A state-of-the-art e-classroom, equipped with 30 tablet PCs, supports teaching and learning with technology. The e-classroom is available to students as a study area when it is not in use for formal instruction.

#### Services for Students with Disabilities

The Library is wheelchair accessible. Specialized equipment for use by students with special needs has been installed in the Library. Access to this equipment must be arranged with the Services for Students with Disabilities Office in the Student Development Centre (Schmon Tower, fourth floor). Individual closed study carrels and lockers are available in the Library. Applications for their use may be made at the Circulation Desk. A special version of the Brock Library online catalogue with voice-over and large print display capabilities is available at a height-adjustable workstation. The Library can also provide access to books and journal articles on tape. Students with special needs are encouraged to ask library staff for assistance in retrieving library materials or in using equipment. Further information is available at the Reference Information Desk or from Jennifer Thiessen, Librarian for Students with Special Needs, ext. 3573.

#### Other Library Services

Debit card photocopy machines are located throughout the Library. One coin-operated machine is available on the main floor. Equipment is available for reading and for making paper copies from microforms (microfilm and microfiche). Printing can be done from all library workstations. Requests for special copying should be directed to staff in Copying and Printing Services. As well, this office offers a large-format printing service for items such as posters or maps.

#### Library Collections

The Library maintains a number of separate collections. The Reserve Collection provides required readings for courses on a short-term loan basis. The Government Documents Collection contains official publications from all levels of government and international organizations and is an important source for information on a wide variety of economic, social and political subjects. The Library is a selective depository for Canadian federal publications and is a full depository for Ontario provincial publications. The Niagara Regional Collection, located in Special Collections, contains materials published about or in the Niagara Region. The Sound and Video Collection contains music and spoken word recordings and a collection of instructional and cultural videos, with listening and viewing stations. The Microforms Collection is a major research resource and includes journals (especially extensive runs of major newspapers), books, theses and a complete collection of ERIC reports. The University Map Library contains roughly 73,000 maps and air photos, and offers a growing number of digital resources and services. For more detail, refer to the section on the Map Library.

#### Borrowing from Other Libraries

Items not available in the Library's collection may be borrowed from other libraries through the Interlibrary Loan/Document Delivery Service. Students may also visit any other university library in Ontario to use its resource and, while there, may borrow books that normally circulate. However, undergraduate students may not borrow from the University of Toronto or the Ontario College of Art and Design. Books may be returned directly to the library from which they were borrowed, or may be returned via the Circulation Desk at Brock. The Library also takes part in the National Reciprocal Borrowing Agreement. Under this agreement, students may borrow books from university libraries across Canada, with some exceptions.

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XIV. Map Library ✓

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*Map Librarian*  
Colleen Beard

*MacKenzie Chown C306*  
*www.brocku.ca/maplibrary/*

The Map Library is located in the Mackenzie Chown Complex, Room C306. It maintains the cartographic reference collection for the university, including topographic maps, geology maps, maps of around the world, local trails and many other special-purpose maps and atlases. The Map Library holds the most extensive air photo collection of Niagara dating back to 1921 up to the present. It carries an extensive collection of computer readable map data, including large scale topographic, soil, agriculture, census data, outline maps, as well as a selection of electronic atlases. Public workstations are available for accessing digital map products and also supports GIS software (Geographic Information Systems). A detailed description of the collection, an electronic census atlas of Niagara, and digital outline maps are accessible through the web site at *www.brocku.ca/maplibrary/*

A colour Laser printer and a black and white photocopier with enlargement and reduction features are available.

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.

The Map Library resources and facilities are available to the general public for reference purposes. Orientation tours are available on request.

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XV. Instructional Resource Centre ✓

*read*  
*Oct 25*

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*Manager*  
Joanne Smith

*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.

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, digital video editing facilities and other equipment to assist in the production of teaching aids. At the Hamilton Campus, classroom media services are provided by the Library.

Two computer laboratories are located at the Hamilton Campus in Room 8 and Room 14.

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.

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XVI. Information Technology Services ✓

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*Chief Information Officer*  
Ron Dubien

*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 a Unisys Clearpath enterprise server as well as Microsoft and Unix servers to support administrative computing and to support 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 academic systems provides standard programming languages such as FORTRAN (77/90), PERL, C and C++ together with a number of applications packages such as IMSI and Gaussian94.

The University supports scheduled micro-computer labs and general access labs for academic use. The scheduled facilities are located in A203, F316, F317, 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. All computer labs have a wheelchair accessible workstation.

Information Technology Services has a Help Desk that is available to all students, faculty and staff to help with computer hardware and software issues. The Help Desk is located in Mackenzie Chown F314 and is open Monday to Friday, 8:30 AM to 4:30 PM. We can also be contacted by dialing 905-688-5550, extension 4357. The ITS website is [www.brocku.ca/its/](http://www.brocku.ca/its/)

# Academic Computing Information

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## I. Computing Access for Students

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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

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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*  
Tricia McLaren

905-688-5550, extension 3568  
Student Centre 313  
[www.busu.net](http://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 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 and Sophie's convenience stores, Isaac's Bar and Grill, and the Advertising and Design Services (ADS). All revenue generated from student run businesses is channeled back to students. Services available to students include Brock Off-Campus (BOC), 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 [www.busu.net](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 in touch with other students, sell used textbooks 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 Alumni Students' Centre

This is the eleventh year of operation for the Alumni Students' 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 Students' Centre are: the BUSU offices, Isaac's Bar and Grill, Sophie's Variety store, the Central Advertising Bureau, the Brock Press, the BOC Lounge, the Health Plan Office, Pick up/Drop off Pharmacy Service, PBB Travel Agency, OPIRG - Brock, Brock Foot Patrol, 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 Iusi, Sandie Huffman  
905-688-5550, extension 4398  
Walker Complex 213C  
[www.brocku.ca/athletics](http://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. Weekly training and 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 athletic and 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, figure skating, ice hockey, lacrosse, rowing, rugby, soccer, swimming, volleyball and wrestling.

Also in the OUA, men's teams compete in baseball, basketball, cross country, curling, fencing, golf, ice hockey, lacrosse, rowing, rugby, soccer, squash, swimming, tennis 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

## LIFE AT BROCK

Canada participate in a competitive schedule of approximately 3000 events starting in September and continuing to March.

The Athletic Therapy Clinic provides prompt sport medicine services to interuniversity athletes, full-time students, high performance athletes, high school athletes and staff. The clinic staff has a wealth of experience to draw from various major international competitions.

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### III. Recreation Services

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#### Director

Karen McAllister-Kenny

#### Administrative Assistant

Sandra Boone, Georgann Watson

905-688-5550, extension 3018

Walker Complex, 214

[www.brocku.ca/recserve](http://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 gymnasias (11,000 sq. ft, 12000 sq. ft, and 22,000 sq. ft), a 200 m indoor run/walk track, squash, racquetball and 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 intramural programs are offered in many sports, including slowpitch, flag football, indoor and outdoor soccer, ice and ball hockey, broomball, volleyball, basketball, innertube waterpolo and more. Join over 5000 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 are offered include aquatic leadership and learn to swim programs, dance, fitness, racquet, fencing, yoga, tai chi, pilates, first aid, personal training, coaching and many more!

#### Employment

Recreation Services hires over 350 students each year. Check the website for information.

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### IV. Parking Services

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#### Supervisor

Al Ross

905-688-5550, extension 4309

Decew Residence, R227

[www.brocku.ca/parking](http://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.

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### V. The Book Store

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#### Director, Bookstore Operations/nc

Trudy Lockyer

#### Assistant to the Director

Caroline Lidstone

905-688-5550, extension 3237

Thistle South 219

[www.bookstore.brocku.ca](http://www.bookstore.brocku.ca)

The Book Store, conveniently located in the Thistle Corridor, 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 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.

Book 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.

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### VI. Alumni Advancement

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#### Director

Christine Jones

#### Administrative Assistant

Vera Terpak

905-688-5550, extension 3816

Thistle East 265

[www.brocku.ca/extrel.alumni](http://www.brocku.ca/extrel.alumni)

With your graduation comes a new relationship with the University. You will have joined the more than 50,000 graduates of Brock University. Full membership privileges (including special membership prices at the Walker Complex, the Brock Centre for the Arts and the James A. Gibson Library) 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](http://www.brockpeople.ca), your on-line connection to other Brock graduates. This community of graduates includes 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. You can also take advantage of many special offers exclusive to Brock graduates. Brockpeople.ca also features 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 address is current (through Brockpeople.ca), you will also receive the Surgit magazine, published four times a year. Also, Brock's TeleGrad 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 University Advancement is your main contact for alumni programs and services. University Advancement arranges Homecoming (Brock Days) and other graduate reunions, affinity programs, networks of graduates across Canada and internationally, student alumni initiatives and volunteer opportunities. University Advancement also works closely with the volunteer members of the Brock University Alumni Association, representing the collective interests of Brock's graduates.

VII. Development *new Oct. 25*

*Director*  
Sarah Nadali

*Administrative Assistant*  
Roseanne Conte

905-688-5550, extension 3590  
Thistle East 265  
[www.brocku.ca/extrel/develop](http://www.brocku.ca/extrel/develop)

The aim of the Office of External Relations - Development is to create and maintain programs that will attract maximum private sector support to advance the objectives of Brock University. The OER is responsible for the co-ordination of all fund-raising activities at Brock.

Gifts can be made to one of three charitable organizations that have been created to serve the needs of Brock University - Brock University (a registered charity), The Brock University Foundation (a Crown foundation), and the Friends of Brock University Inc. (a foundation established to facilitate receiving charitable gifts from U.S. citizens).

Outright gifts of cash either pledged over time or as a one-time donation, gifts-in-kind such as scientific or office equipment, departmental

and library books and journals, and financial support for student awards, are some of the many ways donors support the work of Brock University. The OER also maintains a list of those companies that will match your donation.

Planned giving adds to the variety of ways individuals can contribute to the University and makes involvement possible for those donors who may not be able to commit a gift from discretionary income but who sincerely want to lend their support in some way. When considering an estate plan or a planned gift, we encourage you to consult with your own professional advisers - your lawyer, your accountant, your financial planner and your insurance agent - who can help you, make the right, planned giving choices.

Your donation to Brock University is eligible for a charitable receipt for income tax purposes. It is also important that you are recognized for your contributions. The University's Donor Recognition Policy ensures your support will be suitably acknowledged with appreciation.

In these times of diminished tax based support, the contributions of individuals and organizations have never been more necessary. Donations large and small will make a great difference to the long-term stability of Brock. Our donors help us to improve our programs and facilities and greatly assist our ability to continue to attract and retain deserving students and excellent faculty and staff.

The OER welcomes the opportunity to consult with you. For further information please write or call:

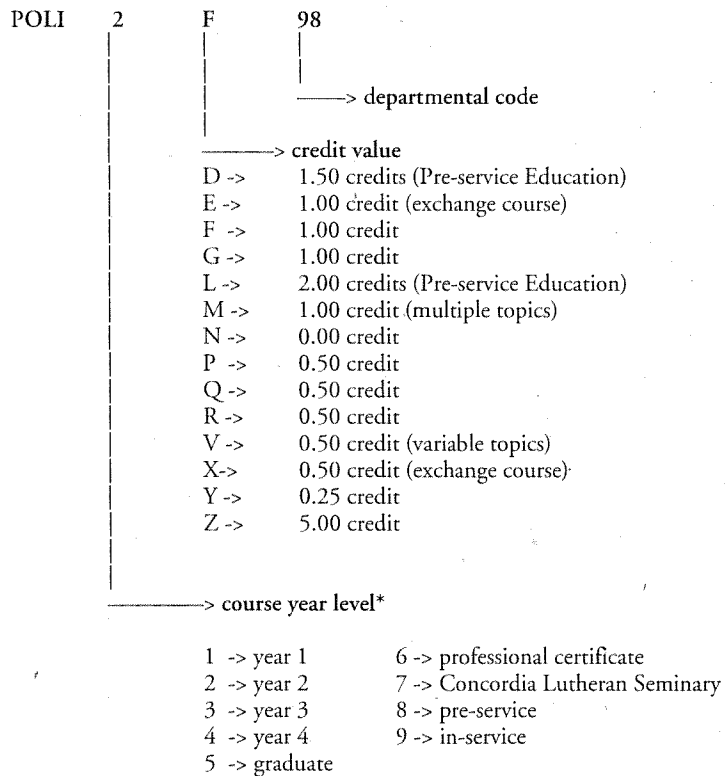
The Office of External Relations -  
Development  
Brock University  
St. Catharines, Ontario  
L2S 3A1

905-688-5550, extension 4320  
Fax: 905-641-5216  
[www.brocku.ca/extrel/extern](http://www.brocku.ca/extrel/extern)

## Course Description, Anatomy of

Course name and number	—————>	* POLI 2F98
Course title	—————>	<b>Public Administration</b>
Cross-listing information	—————>	(also offered as COMM 2F98 and LABR 2F98)
Course description	—————>	Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; pressure groups; human resources and budgetary processes; the policy process; ethics and accountability.
Course format	—————>	<i>Lectures, seminar, 3 hours per week.</i>
Prerequisite(s)	—————>	one POLI credit numbered 1(alpha)90 to 1(alpha)99, COMM 1F90, LABR 1P91 (1P91 and 1P92) or permission of the instructor.
Course note(s)	—————>	Completion of this course will replace previous assigned grade in POLI 3P50.

## 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
ACTG	Accounting
ADED	Adult Education
ADMIN	Administration
APLS	Applied Language Studies
ASTR	Astronomy
BCHM	Biochemistry
BIOL	Biology
BTEC	Biotechnology
CANA	Canadian Studies
CHEM	Chemistry
CHSC	Community Health Sciences
CHYS	Child and Youth Studies
CLAS	Classics
COMM	Communications
COSC	Computer Science
DART	Dramatic Arts
ECON	Economics
EDUC	Education
ENGL	English
ENTR	Entrepreneurship
ENVI	Environment
ERSC	Earth Sciences
ESCI	Science
FILM	Film
FNCE	Finance
FREN	French
GBLS	Great Books/Liberal Studies
GEOG	Geography
GERM	German
GREE	Greek
HIST	History
INTL	International Studies
ITAL	Italian
ITIS	Information Technology Information Systems
JAPA	Japanese
LABR	Labour Studies
LATI	Latin
LING	Linguistics
MAND	Mandarin
MATH	Mathematics
MGMT	Management
MLLC	Modern Languages, Literatures and Cultures
MKTG	Marketing
MUSI	Music

NEUR	Neuroscience
NUSC	Nursing
OBHR	Organizational Behaviour and Human Resources
OEVI	Oenology and Viticulture
OPER	Operations Management
PCUL	Popular Culture
PEKN	Physical Education and Kinesiology
PHIL	Philosophy
PHYS	Physics
POLI	Political Science
PORT	Portugese
PSYC	Psychology
RECL	Recreation and Leisure Studies
RUSS	Russian
SCIE	Science
SOCI	Sociology
SPAN	Spanish
SPMA	Sport Management
STAC	Studies in Arts and Culture
TOUR	Tourism Studies
VISA	Visual Arts
WISE	Women's Studies
WRIT	Writing

# Aboriginal Studies

*Director*  
Merle Richards

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## General Information

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*Administrative Assistant*  
Leslie Wenzl

905-688-5550, extension 4112  
Welch Hall 109

The Tecumseh Centre for Aboriginal Education and Research 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.

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## Certificate in Aboriginal Language

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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

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## Description of Courses

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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

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## Prerequisites and Restrictions

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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 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 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 2F90

#### Studies in Hodinohsonni History I

History of a selected Aboriginal society emphasizing the historical perceptions, developments and interpretations of that society.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in ABST 2M90.

### ABST 2F91

#### Studies in Aboriginal History (in Mohawk)

History of a selected Aboriginal society emphasizing the historical perceptions, developments and interpretations of that society.

*Lectures, seminar, 3 hours per week.*

Note: this course is taught in Mohawk.

Completion of this course will replace previous assigned grade in ABST 2M91.

### ABST 2F92

#### Studies in Hodinohsonni History II

Independent study in an area of mutual interest to the student and the instructor.

Completion of this course will replace previous assigned grade in ABST 2M92.

### ABST 2F96

#### Studies in Hodinohsonni Culture I

Culture of a selected Aboriginal society emphasizing the cultural perceptions, developments and interpretations of that society.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in ABST 2M96.

### ABST 2F97

#### Studies in Aboriginal Culture (in Mohawk)

Culture of a selected Aboriginal society emphasizing the cultural perceptions, developments and interpretations of that society.

*Lectures, seminar, 3 hours per week.*

Note: this course is taught in Mohawk.

Completion of this course will replace previous assigned grade in ABST 2M97.

**ABST 2F98**

**Studies in Hodinohsonni Culture II**

Independent study in an area of mutual interest to the student and the instructor.

Completion of this course will replace previous assigned grade in ABST 2M98.

**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 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 and Canadian Society**

(also offered as SOCI 3P46)

Relationship between Canada's Aboriginal peoples and selected institutions in Canadian society such as education, industry and government. Topics include the European impact on indigenous culture, the conflict between traditional life styles and Canadian institutions and the responses of Aboriginal peoples.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, 2P82 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 Kaya-nere'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 Language Studies

## *Chair*

Richard J. Welland

## *Professor*

John N. Sivell

## *Associate Professors*

Thomas S. C. Farrell, Glenwood H. Irons,  
Cheng Luo, Hedy M. McGarrell

## *Assistant Professors*

Richard J. Welland, Deborah Yeager-  
Woodhouse

## *Lecturers*

Karen Grunow-Harsta, Barbra Zupan

## *Co-ordinator, Applied Linguistics and TESL*

John N. Sivell

## *Co-ordinator, Speech, Language and Hearing Sciences*

Richard J. Welland

## *Director, ESL Services*

Glenwood H. Irons

## *Director of Co-operative Programs*

Cindy Dunne

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## General Information

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### *Administrative Assistant*

Leona Volterman

905-688-5550, extension 3374

Mackenzie Chown A 228

<http://www.brocku.ca/appliedlang/>

Linguistics is concerned with the systematic study of language structure, the acquisition of first and subsequent languages, the role of language in communication, and the status of language as the product of particular cultures and other social groups. A background in linguistics is essential for language teachers, translators, speech-language pathologists, audiologists, and many other language professionals.

The Department of Applied Language Studies offers programs of study leading to an Honours Bachelor of Arts (BA) degree in Applied Linguistics, Hearing Sciences, Speech and Language Sciences and Teaching English as a Second/Foreign Language (TESL). As well, the BA Honours Applied Linguistics and BA Honours TESL programs offer a Co-op option. Students may also elect a four-year program of study leading to a BA with Major in Speech and Language Sciences. Pass BA degree in Applied Linguistics, Hearing Sciences, and Speech and Language Sciences is also available.

The four-year degree programs (Honours, BA with Major) give students the opportunity to prepare for employment or for admission to post-baccalaureate training in a variety of fields. Students who intend to pursue graduate study specifically in Audiology should complete the Honours Hearing Sciences program. Students who intend to pursue a BEd degree or graduate study specifically in Speech-Language Pathology should complete the Honours Speech and Language Sciences program. The Department also offers programs of study leading to a Certificate for Communication Disorders Assistants, Hearing Sciences, Speech and Language Sciences and Teaching English as a Second/Foreign Language. Students who intend to apply for admission to the Certificate for Communication Disorders Assistants program should complete the BA Pass Hearing Sciences or Speech and Language Sciences program. Courses concerning the structure of American Sign Language (ASL) and English as a Second/Subsequent Language are also offered.

English as a Second/Subsequent Language courses (APLS) are designed to enhance the English academic speaking and writing abilities of students whose native language is not English.

Students with scores below TOEFL 580, TOEFL CBT 237, MELAB 90, IELTS 7.0 or ITELP 625 who have been accepted into academic programs are required by the Office of the Registrar, Admissions to register in APLS 1P80 and APLS 1P81 in Year 1 along with no more than four credits.

The Department offers four programs, allowing students to specialize in Applied Linguistics, Hearing Sciences, Speech and Language Sciences or Teaching English as a Second/Foreign Language.

## **Applied Linguistics**

Students in this program 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. A four-year co-op option is also available.

## **Hearing Sciences**

Students are afforded 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, and 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. Students in the BA Pass program have the opportunity to prepare for admission to post-baccalaureate training as Communication Disorders Assistants, or for admission to a Faculty of Education.

## **Speech and Language Sciences**

Students are afforded the opportunity to learn about basic sciences (eg, biology), basic communication processes, including the anatomy and physiology of speech and hearing, acoustics, linguistics, and 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 four-year BA with Major and BA Pass programs have the opportunity to prepare for admission to post-baccalaureate training as Communication Disorders Assistants, or for admission to a Faculty of Education.

**Teaching English as a Second/Foreign Language (TESL)**

This program is offered as a four-year BA Honours program and provides background in theories and methodologies relevant to the learning and teaching of English as a second or foreign language. A four-year Co-op option is also available.

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.

Students who wish to major in any of the programs of study offered by the Department of Applied Language Studies 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 Language Studies believe that students benefit from a broadly based liberal arts background in conjunction with a Major in Applied Linguistics, Hearing Sciences, Speech and Language Sciences or Teaching English as a Second/Foreign Language. 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 degree (BA Honours and BA with Major) must apply to be admitted to Year 4 after completing 15 credits. Application forms for Year 4 admission are available on-line 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 and TESL Co-op programs combine 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 and TESL 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. 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 may not continue in the Applied Linguistics or TESL Co-op program, but may continue in the regular Applied Linguistics or TESL 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 or TESL 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 Language Studies 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 Note**

1. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

**Honours Program**

**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)

*Year 4*

- LING 4P40, 4P41 and 4P50
- LING 4P61 or 4P99
- one LING credit numbered 2(alpha)90 or above
- 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
- one credit from PHYS 1P91, 1P92, 1P93
- PSYC 1F90
- one elective credit (BIOL 1F90 or CHEM 1F92 strongly recommended)

*Year 2*

- LING 2P10, 2P50, 2P53, 2P90 and 2P91
- one Humanities context credit
- one and one-half elective credits (BIOL 1F90 or CHEM 1F92 strongly recommended)

## APPLIED LANGUAGE STUDIES

### Year 3

- LING 3P51, 3P61, 3P71, 3P90 and 3P97
- PHYS 2P31 and 2P32
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one-half elective credit (BIOL 3P51 or CHEM 2P20 strongly recommended)

### Year 4

- LING 4P20, 4P21 and 4P27
- one credit from LING 2P72, 3P94, 3P95, 3V80-3V99, 4F01, 4P25, 4P31, 4P32, 4P35, 4P99, 4V80-4V99
- PSYC 2F23
- one and one-half elective credits (BIOL 3P51 or CHEM 2P20 strongly recommended; CHSC 2P15, PSYC 2F12, 2F36, 2F50, 3P96, 4F50 recommended)

### 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 Science context credit (one credit from BIOL 1F90, PHYS 1P91, 1P92, 1P93 strongly recommended)
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)

### Year 2

- LING 2P10, 2P50, 2P53, 2P90 and 2P91
- PSYC 2F23
- one Humanities context credit
- one -half elective credit (BIOL 2P97 or CHSC 2P09 recommended)

### Year 3

- LING 3P51, 3P61, 3P71, 3P90, 3P94, 3P95, 3P97 and 3Q93
- CHYS 2F10 or PSYC 2F12

### Year 4

- LING 4P20, 4P21 and 4P27
- one and one-half credits from LING 2P72, 3V80-3V99, 4F01, 4P25, 4P31, 4P32, 4P35, 4P40, 4P41, 4P50, 4P61, 4P99, 4V80-4V99
- two elective credits (PSYC 2F20, 2F36, 3P88, 3P98, 4F50 recommended)

### Teaching English as a Second/Foreign Language (Honours only)

This program is recognized by TESL Ontario for professional accreditation as an adult non-credit ESL instructor in Ontario.

### 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 3P61, 3P71, 3P91, 3P94, 3P95 and 3Q91
- one credit from LING 3P51, 3P93, 3V80-3V99
- one elective credit

### Year 4

- LING 4P40, 4P80, 4P82 and 4P83
- LING 4P41 or 4P50
- one of LING 3P93, 4P25, 4P41, 4P50, 4P61, 4P99, 4V80-4V99
- two elective credits

### Applied Linguistics Co-op (Honours only)

Students admitted to the Linguistics 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 (COMM 1F90 recommended)

### Year 2

- LING 0N90, 2P10, 2P50, 2P53, 2P72 and 2P99
- one Humanities context credit
- one and one-half elective credits

### Spring/Summer Sessions:

- LING 0N11

### Year 3

- LING 3P61, 3P71, 3P93, 3P94, 3P95 and 3Q91
- two elective credits (ENGL 3P91 and 3P92 recommended)

### Spring/Summer Sessions:

- LING 0N12

### Year 4

- LING 4P40, 4P41 and 4P50
- LING 4P61 or 4P99
- one LING credit numbered 2(alpha)90 or above
- one language credit (LING 1P00 and 1P01 strongly recommended; see language requirement)
- one elective credit

### Teaching English as a Second/Foreign Language Co-op (Honours only)

Students admitted to the TESL 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

- LING 4P40, 4P80, 4P82 and 4P83
- LING 4P41 or 4P50
- one of LING 3P93, 4P25, 4P41, 4P50, 4P61, 4P99, 4V80-4V99
- 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)
- 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)

*Year 3*

- LING 3P51, 3P61, 3P71, 3P90, 3P91, 3P94, 3P95 and 3P97
- one elective credit (CHYS 2F10 or PSYC 2F12 recommended)

*Year 4*

- Three credits from LING 2P72, 3V80-3V99, 4P31, 4P32, 4P35, 4P40, 4P41, 4P50, 4P61, 4V80-4V99
- two elective credits (PSYC 2F20, 2F36, 3P88, 3P98 recommended)

**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**

**Applied Linguistics**

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.

*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 elective credit

*Year 2*

- LING 2P10 and 2P50
- one credit from LING 2P53, 2P90, 2P91, 2P94, 2P99
- two credits from the co-major discipline
- one elective credit

*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 4P25, 4P40, 4P41, 4P50, 4P61, 4P99, 4V80-4V99
- 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 elective credit (BIOL 1F90 or PSYC 1F90 strongly recommended)

*Year 2*

- LING 2P10, 2P50, 2P90 and 2P91
- two credits from the co-major discipline

- one elective credit (CHYS 2F10 or PSYC 2F12 strongly recommended)

*Year 3*

- LING 3P61, 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 of LING 2P72, 3P71, 3Q93, 3V80-3V99, 4P25, 4P27, 4P31, 4P32, 4P35, 4P40, 4P41, 4P50, 4P61, 4P99, 4V80-4V99
- two credits from the co-major discipline
- one elective credit (BIOL 2P97 or CHSC 2P09 recommended)

**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 1F25 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, 3P21, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P43, 3P44, 3P47, 3P48, 3P60
- one Humanities context credit

*Year 4*

- LING 4P20, 4P21, 4P31 and 4P32
- CHYS 4F97 and 4P98
- one of CHYS 4P01, 4P16, 4P35, 4P38, 4P48, 4P65

## APPLIED LANGUAGE STUDIES

- one-half CHYS credit numbered 3(*alpha*)90 to 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.

For further information on the LING/CHYS combined program, please see the Co-ordinator, Speech, Language and Hearing Sciences or the Co-ordinator, Child and Youth Studies.

### Applied Linguistics and English

#### 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 Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### 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 2Q90 and 2Q91, 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, 4P40, 4P41, 4P50, 4P61, 4P82, 4P83, 4V80-4V99
- 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.

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### Certificate Program

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The Department of Applied Language Studies 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 Second/Foreign Language (TESL/TEFL) for those 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 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 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).

This program is recognized by the Communicative Disorders Assistants Association of Canada (CDAAC) as an approved training program for CDAs. Students and graduates of this certificate

program are therefore eligible to join CDAAC as student members and full members, respectively. A student representative is elected by his/her peers to participate as a member of the CDAAC Executive Committee.

Students may apply to the program after completing the Hearing Sciences BA Pass degree, Speech and Language Sciences BA with Major or BA Pass degree or equivalent with a minimum overall average of 60 percent. Enrolment is limited. Applicants must submit a resume, official transcript(s), a letter of intent, and two letters of reference. Prospective students who are currently working as supportive personnel, and who wish to be considered for admission to the Certificate for Communication Disorders Assistants program should contact the Department to discuss the suitability of their academic background. Prospective students should contact the Department for additional information.

Field placements are an integral component of this certificate program; students must successfully complete all placements (LING 0N32 and 0N33 are held after the completion of all credit courses) to graduate.

The certificate is awarded upon completion of the following courses with an overall average of 60 percent:

- LING 0N30, 0N31, 0N32, 2P99, 4P20, 4P21, 4P27, 4P31, 4P32, and 4P35
- one credit from CHYS 2P35, 3P20, 3P35, 3P43, 3P47, 3P60
- one-half elective credit (WRIT 1P80 strongly recommended)

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.

#### Certificate in Hearing Sciences

Students are given 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. Students with a non-science background may take longer to complete all of the prerequisites

for the doctorate in audiology. Prospective students must apply through the Office of the Registrar and are strongly advised to consult the department's Co-ordinator, Speech, Language, and Hearing Sciences before registering for any LING courses.

The certificate is awarded upon completion of the following courses with an overall average of 70 percent:

- LING 1P93, 2P50, 2P90, 2P91, 3P61, 3P90, 3P97, 4P20, 4P21 and 4P27

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, CHEM 1F92, LING 1F94, 1P92, 3P51, PHYS 1P91, 1P92, 1P93, 2P31, 2P92, PSYC 2F23, 2F36 may be recommended as extra courses, depending on individual students' previous course work.

**Certificate in Speech and Language Sciences**

Students are given 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 Speech-Language Pathologist. Prospective students must apply through the Office of the Registrar and are strongly advised to consult the Department's Co-ordinator, Speech, Language, and Hearing Sciences before registering for any LING courses.

The certificate is awarded upon completion of the following courses with an overall average of 70 percent:

- LING 1P93, 2P50, 2P90, 2P91, 3P61, 3P90, 3P97, 4P20 and 4P21
- one of CHSC 2P09, LING 2P10, 2P53, 2P61, 2P99, 3P51, 3P92, 3P94, 3P95, 4P27, 4P31, 4P32, 4P35, 4P41, 4V80-4V99

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, 2F12, 2F23 may be

recommended as extra courses, depending on individual students' previous course work.

**Certificate in Teaching English as a Second/Foreign Language**

The program introduces students to a wide range of practical and theoretical issues related to the teaching of English as a second/foreign language. This certificate is recognized by TESL Ontario for professional accreditation as an adult non-credit ESL instructor in Ontario. The certificate is awarded upon completion of the following courses with an overall average of 60 percent:

- LING 1F94, 2P10, 3P91, 3Q91, 4P40, 4P80, 4P82 and 4P83
- LING 4P41 or 4P50

**Minor in 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, 4P25, 4P40, 4P41, 4P50, 4P61, 4P82, 4P83, 4P99

**Master of Arts (MA) in Applied Linguistics with a Specialization in Teaching English as a Second/Foreign Language**

The Department of Applied Language Studies offers courses leading to the MA degree in Applied Linguistics (with specialization in TESL). Both regular entry and international 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.

**APPLIED LANGUAGE STUDIES**

**APLS 1P80**

**English as a Subsequent Language I**

Development of listening, note-taking, reading, writing and speaking skills in English for academic settings.

*Lectures, lab, 4 hours per week.*

Note: open to students whose native language is not English.

**APLS 1P81**

**English as a Subsequent Language II**

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.

**APLS 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.

**APLS 1P91**

**Advanced Spoken English for Subsequent Language Learners**

Improvement of students' speaking skills through participation in seminars, oral

## APPLIED LANGUAGE STUDIES

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.

## 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 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, computational linguistics, 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 TESC 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 TESC Certificate students until date specified in Registration guide.

Prerequisite: LING 1P00.

### 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.*

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.

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.

Completion of this course will replace previous assigned grade in LING 1F91.

### 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.*

Prerequisite: LING 1P92 or permission of the Chair.

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.

Completion of this course will replace previous assigned grade in LING 1F91.

### LING 2P10

#### Fundamentals of English Grammar

Introductory description of English grammar focussing on basic principles and terminology.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94 or permission of the Chair.

Note: this course is relevant to the needs of those embarking on the linguistic study of

English, and to current or prospective teachers or teaching assistants and foreign language students.

Completion of this course will replace previous assigned grade in LING 1P95 and 2P61.

### 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, focussing 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 INTL 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 Chair.

Completion of this course will replace previous assigned grade in LING 3P92.

### 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, lab, 4 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 1P92 and 1P93 (1F91).

Completion of this course will replace previous assigned grade in LING 3P98.

### 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.

Completion of this course will replace previous assigned grade in LING 3P99.

#### #LING 2P94

##### **Comparative 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

##### **Clinical Phonetics**

Techniques for the analysis of the production of speech sounds. The use of transcription skill in the analysis and description of the speech sound of second 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 (1F91), or PSYC 1F90

Note: LING 1F94 strongly recommended.

Completion of this course will replace previous assigned grade in LING (CHYS/PSYC) 2P98.

#### LING 3P71

##### **Syntax**

Syntactic analysis focussing 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.

Completion of this course will replace previous assigned grade in LING 2P61.

#### 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.

Completion of this course will replace previous assigned grade in LING 2P96.

#### LING 3P91

##### **Materials and Curriculum Design**

Theoretical foundations, development and/or adaptation of second-language syllabi; planning, managing, and delivering second-language instruction in various methodological frameworks, including materials assessment, needs analysis and practical classroom experience.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LITE majors and TESC Certificate students.

Prerequisite: LING 1F94.

#### \*LING 3P93

##### **Gender and Language**

(also offered as WISE 3P93)

Survey of major debates concerning language, gender and power in the 20th and 21st centuries.

*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 3P94 or permission of the Chair.

#### LING 3P97

##### **Introduction to Audiology**

Review of anatomy and physiology of hearing. Hearing disorders from preschool to the aging populations. Approaches to prevention, assessment and treatment.

*Lectures, lab, 3 hours per week.*

Prerequisites: LING 1P92 and 1P93 (1F91) or permission of the Chair.

Completion of this course will replace previous assigned grade in LING 2P97.

#### \*LING 3Q91

##### **Second Language Acquisition and Learning** (also offered as PSYC 3Q91)

Theories of second- or 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.*

Prerequisite: LING 1F94 or permission of the Chair.

#### LING 3Q93

##### **Language Disorders in Adults**

Introduction to neurolinguistics and human neuroanatomy. Theories and models of brain-language relationships and approaches to assessment and intervention for aphasia and related adult-onset neurogenic disorders of language processing and production.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1P92 and 1P93 (1F91), or PSYC 1F90.

Completion of this course will replace previous assigned grade in LING 2P93.

#### LING 3V80-3V99

##### **Special Issues in 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 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, 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.

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 a faculty research project.

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: course requirements may include a

learning journal, data collection or analysis assignments, or collaboration in the production of a conference presentation or journal article.

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, 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 (1F91) 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, HESL, and SLSC Certificate students.

Prerequisite: LING 2P50 or permission of the Chair.

LING 4P40

**Language Testing**

Theory and practice 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), HEAR, SPLS (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 psycholinguistic aspects of bilingualism: models of bilingual education, linguistic abilities in bilinguals, constraints on mixing and code-switching, the organization of the bilingual lexicon, language processing in bilinguals, language attrition.

*Lectures, seminar, 3 hours per week.*

Restriction: open to APLI (single or combined), HEAR, SPLS (single or combined) and LITE majors with approval to year 4 (honours), and

TESC Certificate students.  
Prerequisite: LING 1F94 or permission of the Chair.

LING 4P50

**Topics in Sociolinguistics**

Critical examination and application of current sociolinguistic theories in Canadian and international contexts. Topics include the analysis of language in relation to ideology, ethnicity, class, gender and power in institutional and other social settings.

*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 TESC Certificate students.

Prerequisite: LING 1F94 or permission of the Chair.

LING 4P61

**Topics in Applied Linguistics**

Critical examination and application of current linguistic theories. Topics include the analysis of language in relation to communication disorders, first and second language acquisition, language teaching, storytelling, innateness and other linguistic domains.

*Seminar, 3 hours per week.*

Prerequisites: LING 2P53 and 2P61.

LING 4P80

**Supervised Teaching**

Class observation, including planning, managing and delivering second language instruction. Seminar discussions on current conceptual knowledge (theoretical) and perceptual knowledge (practical) highlighted with reference to the second 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.

Prerequisite: LING 1F94 and 3P91 or permission of the Chair.

LING 4P82

**Teaching Listening and Speaking in a Second Language**

Theories of and issues in the development of oral language processing in a second or subsequent language. Canadian Language Benchmarks. Implications and applications for selected teaching and learning situations; peer teaching.

*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 4P83

**Teaching Reading and Writing in a Second 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; peer teaching.

*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 4V80-4V99

**Advanced Topics in Applied Linguistics**

Selected topics of relevance to speech, language and hearing sciences, TESL or other applied linguistics fields. Topics may vary according 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, 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 APLI and TESL Co-op students.

LING 0N12

**Work Placement II**

Second co-op placement (4months) with an approved employer.

Restriction: open to APLI and 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 APLI and 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 practises in health care delivery and documentation, infection control, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to CODC Certificate students.

LING 0N31

**Field Placement I**

First field placement under the supervision of a practising 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 48 hours. Some field placement sites may require students to commute to/from their place of residence.

## APPLIED LANGUAGE STUDIES

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. Completion of this course will replace previous assigned grade in LING 0N01.

### LING 0N32

#### Field Placement II

Second field placement under the supervision of a practising 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 221 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.

Completion of this course will replace previous assigned grade in LING 0N02.

### LING 0N33

#### Field Placement III

Third field placement under the supervision of a practising 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 0N32.

Note: minimum 221 hours. Clinical site must be different from the one provided for LING 0N32. 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.



# Biochemistry

*This program is offered through the Departments of Biological Sciences and Chemistry*

## Co-ordinators

A. Joffre Mercier, Department of Biological Sciences

Jeffrey K. Atkinson, Department of Chemistry

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## General Information

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### Administrative Assistant

Caroline Barrow

905-688-5550, extension 3388

Mackenzie Chown F234

<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.

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## Program Notes

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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 all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02 (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 Science context credit

### Year 2

- BIOL 2F01
- one credit from BIOL 2P92, 2P96, 2P98
- CHEM 2P12 or 2P63
- CHEM 2P20, 2P21 and 2P42
- the Humanities context credit or Social Science context credit not taken in year 1

### Year 3

- BCHM 3P01 and 3P02
- BIOL 3P50
- BIOL 3P51 or 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 4(alpha)00 - 4(alpha)99
- one CHEM credit numbered 3(alpha)99 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 1P01 and 1P02 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 Science 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 Science context credit not taken in year 1

## BIOCHEMISTRY

Spring/Summer Sessions:

- BCHM 0N01

Year 3

Fall Term

- BCHM 3P01
- BIOL 3P50
- 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 3P51 or 3P91
- 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 4(*alpha*)00 - 4(*alpha*)99
- one CHEM credit numbered 3(*alpha*)99 or above (see program note 3)
- one elective credit

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### Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### 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

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### Prerequisites and Restrictions

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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

The 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 sulfur 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), 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 3P95

##### Lab Techniques in Biochemistry and Molecular Biology

(also offered as BIOL 3P95 and BTEC 3P95) Theory and practice of basic techniques in nucleic acid and protein manipulations and analysis.

*Lab, 6 hours per week.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

Note: designed for students interested in biochemistry, molecular biology, and molecular ecology.

#### \* 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: students must have either 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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Note: BCHM 3P02, BIOL 3P50, 3P80 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: 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 3P63 or permission of the instructor.

# BCHM 4P09

**Topics in Animal and Plant Signal**

**Transduction Pathways**

(also offered as BIOL 4P09 and BTEC 4P09)

Perception of stimuli to effects on gene expression, emphasizing the molecular/biochemical tools used to study these pathways.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P01.

# 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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P02 or BIOL 3P50.

# 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

A. Joffre Mercier

## 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, Vincenzo De Luca, Yousef Haj-Ahmad, Fiona F. Hunter, A. Joffre Mercier, Andrew G. Reynolds

## Associate Professors

Stefan Brudzynski, Robert L. Carlone, Alan J. Castle, Isabelle Lesschaeve, Daniel McCarthy, John Middleton, Gary Pickering, Miriam H. Richards

## Assistant Professors

Charles Després, David Gabriel, Debra L. Inglis, Sandra Peters, Jean Richardson, Adonis Skandalis, Gaynor Spencer, Jeff Stuart, Glenn Tattersall, Litsa Tsiani

## Adjunct Professors

Margaret Cliff, Helen Fisher, Ken Giles, Frederic Marsolais, Wendy McFadden-Smith, Dan Rinker, Lorne W. Stobbs, Antonet Svircev, Lining Tian

## Laboratory Instructors

John Ciolfi, Jacinta Dano, Diane Eaton, Ellen Maissan, George Melvin

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## General Information

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### Administrative Assistant

Caroline Barrow

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Mackenzie Chown MC F234

<http://www.brocku.ca/biology>

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).

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## Program Notes

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1. MATH 1P01 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 Grade 12 U or OAC 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 1F00, CHEM 1P00, ERSC 1F90, 1P92, 1P93, SCIE 1F30, 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. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98 (see program note 1)
- one credit from COSC 1P93, 1P95, 1P96, ERSC 1F01, PHYS 1P21 or 1P91 (recommended), one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended) (see program notes 2 and 3)
- one Humanities context credit or one Social Science 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 Science 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
- MATH 1P97 and 1P98 (see program note 1)
- one credit from COSC 1P93, 1P95, 1P96, ERSC 1F01, PHYS 1P21 or 1P91 (recommended), one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended) (see program notes 2 and 3)
- one Humanities context credit or one Social Science 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 Science 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/BEEd**

The Department of Biological Sciences and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEEd programs and a BSc (Pass)/BEEd program. The Biological Sciences BSc (Honours)/BEEd program 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.) The BSc Integrated (Pass)/BEEd combines the BSc Integrated (Pass) program with the teacher education program for students interested in teaching at the Junior/Intermediate level (grades 4-10.) Refer to the Education - Concurrent BSc (Honours)/BEEd (Intermediate/Senior), Education - Concurrent BSc Integrated Studies (Honours)/ BEEd (Junior/Intermediate) or Education - Concurrent BSc Integrated Studies (Pass)/BEEd (Junior/Intermediate) program listings for further information.

**Combined Major Program**

**Biological Sciences and Chemistry**

**Honours**

*Year 1*

- BIOL 1F90
- CHEM 1F92

- MATH 1P01 and 1P02 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 Science context credit

*Year 2*

- BIOL 2F01
- CHEM 2P12 or 2P63
- CHEM 2P20, 2P21 and 2P42
- one credit from BIOL 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- the Humanities context credit or Social Science context credit not taken in year 1

*Year 3*

- BCHM 3P01 and 3P02
- CHEM 2P12 or 2P63 (not taken in year 2)
- CHEM 2P32
- one BIOL credit numbered 2(alpha)90 to 3(alpha)99 (BIOL 3P50 recommended)
- 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 8)

**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 Science context credit (GEOG 1F90 is strongly recommended)

## BIOLOGICAL SCIENCES

### Year 2

- BIOL 2P05 and 2Q04
- one credit from BIOL 2P92, 2P94, 2P96, 2P98
- GEOG 2P11
- 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
  - GEOG 4F99
  - one GEOG credit numbered 3(alpha)90 or above from group B or C (see Geography department)
  - one elective credit
- BIOL 4F90 and 4F91, or BIOL 4F92 and one BIOL credit numbered 3(alpha)90 or above or GEOG 4F90 must be included.

### 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 Science 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 Science 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 8)
- MATH 2F40, 4P81 and 4P82
- one elective credit (see program note 8)

### 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
- PSYC 1F90
- CHEM 1F92
- 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 which may include BIOL 4F90 and 4F91 or BIOL 4F92
- PSYC 4P92 and 4P93 and one PSYC credit numbered 3(alpha)90 or above (if neither BIOL 4F90 and 4F91 nor BIOL 4F92 is taken, PSYC 4F90 or 4F91 is required)
- one elective credit

### Pass

##### Year 1

- BIOL 1F90
- PSYC 1F90

- CHEM 1F92
- 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
- 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.

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### Minor in Biological Sciences

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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

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### Graduate (MSc, PhD) Program

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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.

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Description of Courses

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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

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Prerequisites and Restrictions

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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. For example, cardiovascular physiology, biology of cancer, issues in contemporary biology.

*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.

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.*

Note: OAC or 12U 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 with emphasis on 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 one CHEM credit numbered 1(alpha)80 to 1(alpha)99.

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.

Completion of this course will replace previous assigned grade in ERSC (ENVI/GEOG) 2P09.

BIOL 2P92

**Animal Form, Function and Diversity**

Introduction to evolution, animal diversity, basic body plans and anatomical structure of tissues and organs throughout 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 2P94

**Plant Biology: Growth and Development**

Biochemistry and cell biology of plant cell structure, organogenesis and plant life cycle. Focussing 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 1P92 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.

Completion of this course will replace previous assigned grade in BIOL (PHIL) 2F95.

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 Community Ecology**

(also offered as ENVI 2Q04)

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.

## BIOLOGICAL SCIENCES

### BIOL 3P28

#### Developmental Biology

Vertebrate, invertebrate and plant development. Topics include egg and sperm interaction; emergence of diverse cell types in the adult body from a single cell; genetic control of tissue and organ formation and morphological patterns in these structures; role of genes underlying the developmental mechanisms of evolutionary change.

*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.

### \* 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: 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 physiological ecology. Homeostatic mechanisms of respiration, circulation, osmoregulation, thermoregulation, locomotion and metabolism in vertebrates with comparison to selected invertebrates.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2F01 and 2P92.

### \* BIOL 3P43

#### Applied Microbial Ecology

(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: 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: 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 and 2P05 or permission of the instructor.

### BIOL 3P60

#### Animal Behaviour

Emphasis on the 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: 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.*

Restriction: 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: 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: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or PSYC 2F36.

Note: BIOL 3P34 is strongly recommended for students who have not taken PSYC 2F36

Completion of this course will replace previous assigned grade in BIOL (NEUR) 3P84.

\* BIOL 3P91

**Plant Physiology: Metabolic and Biophysical Processes**

The 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: students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2F01 and 2P94 (2P93) or permission of the instructor.

\* BIOL 3P95

**Techniques in Biochemistry and Molecular Biology**

(also offered as BCHM 3P95 and BTEC 3P95)

Theory and practice of basic techniques in nucleic acid and protein manipulations and analysis.

*Lab, 6 hours per week.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

Note: designed for students interested in biochemistry, molecular biology, and molecular ecology.

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: 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.

BIOL3P97

**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: 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, BTEC and 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 Chair.

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: 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.*

## BIOLOGICAL SCIENCES

Restriction: 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: students must have a minimum of 14.0 overall credits or approval to 4 (honours). Prerequisite: one of BCHM 3P01, 3P02, BIOL 3P50, CHEM 3P63 or permission of the instructor.

### \* BIOL 4P09

**Topics in Animal and Plant Signal Transduction Pathways**

(also offered as BCHM 4P09 and BTEC 4P09) Perception of stimuli to effects on gene expression emphasizing the molecular/biochemical tools used to study these pathways.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P01.

### BIOL 4P10

#### **Microbial Pathogenesis**

A molecular approach to microbial diseases in a variety of hosts focussing 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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 2P98.

### \* 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: 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: 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.

*Lectures, seminar, 3 hours per week.*

Restriction: Students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P35.

Note: BIOL 3P60 and 3P34 are recommended.

### # 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.*

Restriction: open to BCHM, BIOL, BTEC and OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisite: OEVI 2P99.

### BIOL 4P31

#### **Molecular Physiology of the Cell**

Normal and pathological aspects of cellular physiology, emphasizing bioenergetics and metabolism, responses to physiological stress, and molecular mechanisms of adaptation.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P01 or BIOL 3P35.

### 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: 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, 2 hours per week.*

Restriction: 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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P50 or BCHM 3P01.

### \* 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: 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, 2 hours per week.*

Restriction: 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: 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 4P62****Sociobiology**

How natural selection shapes social behaviour emphasizing the evolution of co-operation and altruism, transitions between solitary and social behaviour, and comparisons of taxa from single-celled organisms to humans.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisites: BIOL 3P60 or 3P80.

**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: 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 4P80****Dendrochronology**

(also offered as GEOG 4P80 and ERSC 4P80)

Principles and use of dendrochronology to study forest dynamics, geomorphic events and paleoenvironmental change; use of tree growth in the study of climate and environmental factors; measurement and statistical analysis of tree growth records.

*Lectures, lab, local field trip, 6 hours per week.*

Prerequisite: one of BIOL 2P05, 2Q04, GEOG 2P09.

**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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P34, 3P90 (3P84) or permission of the instructor.

# Biomedical Sciences

*This program is offered through the Departments of Biological Sciences and Community Health Sciences*

## Co-ordinators

A. Joffe Mercier, Chair, Department of Biological Sciences

John Hay, Chair, Department of Community Health Sciences

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## General Information

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### Administrative Assistant

Caroline Barrow

905-688-5550, extension 3388

Mackenzie Chown F234

<http://www.brocku.ca/biology/>

Joanne Falovo

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.

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## Program Notes

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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 all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above.

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## Honours Program

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### Year 1

- BIOL 1F90
- CHSC 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit

### Year 2

- BIOL 2F01, 2P97 and 2P98
- CHSC 2F95, 2P07 and 2P09
- CHEM 2P20 and 2P21

### Year 3

- CHSC 3P07, 3P09 and 3P19
- one-half CHSC credit numbered 2(*alpha*)90 or above
- two credits from BCHM 3P01, 3P02, BIOL 3P28, 3P50, 3P51
- one elective credit

### Year 4

#### Thesis Option:

- CHSC 4F90 and one CHSC or BIOL credit numbered 2(*alpha*)90 or above, or BIOL 4F90 and 4F91
- CHSC 4P95 and 4P99
- one credit from BCHM 3P01, 3P02, 4P06, 4P21, BIOL 3P28, 3P50, 3P51, 4P28, 4P51, 4P53
- one elective credit

#### Library Research Option:

- BIOL 4F92
- CHSC 4P95 and 4P99
- one credit from BCHM 3P01, 3P02, 4P06, 4P09, 4P21, BIOL 3P28, 3P50, 3P51, 4P28, 4P51, 4P53
- one CHSC or BIOL credit numbered 3(*alpha*)90 or above
- one elective credit

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## Description of Courses

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See relevant calendar entry for course descriptions.

## Biotechnology

### Director

Michael J. Bidochka

### 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), Adonjs Skandalis (Biological Sciences), Lorne Stobbs (Biological Sciences), Art van der Est (Chemistry)

### Director of Co-operative Programs

Cindy Dunne

### Co-operative Program Co-ordinator

J.K. Atkinson

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## General Information

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### Administrative Assistant

Caroline Barrow

905-688-5550, extension 3042

Mackenzie Chown E206

<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 venture 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.

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## Program Notes

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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 all 20 credit programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above

and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- one Humanities context credit or Social Science 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 3P63
- BCHM 3P01 and 3P02
- CHEM 3P20
- one credit from BIOL 3P28, 3P43, 3P51, CHEM 3P21, 3P40, 3P41, 3P60
- one elective credit (see program notes 1 and 2)

### Year 4

- BTEC 3P62 or 3P63 (not taken in year 3)
- BTEC 4F90 and 4F91 (see program note 1)
- one credit from BTEC 4P06, 4P08, 4P09, 4P18, 4P21, 4P57, 4P58, BIOL 4P10, 4P23, 4P51, 4P53, BCHM 4P02
- 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.

## BIOTECHNOLOGY

### Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- one Humanities context credit or Social Science context credit

### Year 2

- BTEC 2P09 and 2P63
- BIOL 2F01
- CHEM 2P20 and 2P21
- SCIE 0N90
- 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

### Spring/Summer Sessions:

- BTEC 0N01

### Year 3

#### Fall Term:

- BTEC 3P09 and 3P50
- BCHM 3P01
- CHEM 3P20
- one of BIOL 3P28, 3P51, 3P95, CHEM 3P21, 3P40, 3P60

#### Winter Term:

- BTEC 0N02

### Year 4

#### Fall Term:

- BTEC 0N03

#### Winter Term:

- BTEC 3P62 or 3P63
- BCHM 3P02
- one and one-half credits from BTEC 3P43, BIOL 3P28, 3P51, CHEM 3P21, 3P41, 3P60

### Year 5

- BTEC 3P62 or 3P63 (not taken in year 4)
- BTEC 4F90 and 4F91
- one credit from BIOL 4P23, 4P51, 4P53, BTEC 4P06, 4P08, 4P09, 4P18, 4P21, 4P57, 4P58
- one of BTEC 4P27, 4P67, 4P68
- one elective credit (see program note 2)

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## Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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## Description of Courses

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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

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## Prerequisites and Restrictions

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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; the use of biotechnology in waste treatment. *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; MATH 1P01 and 1P02 (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 Microbial Ecology

(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: 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: 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 3P63

#### Protein and Nucleic Acid Chemistry

(also offered as CHEM 3P63)

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.

# BTEC 3P95

**Lab Techniques in Biochemistry and Molecular Biology**

(also offered as BIOL 3P95 and BCHM 3P95) Theory and practice of basic techniques in nucleic acid and protein manipulations and analysis.

*Lab, 6 hours per week.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

Note: designed for students interested in biochemistry, molecular biology, and molecular ecology.

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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Note: BCHM 3P02, BIOL 3P50, 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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: one of BTEC 3P50, 3P63, BCHM 3P01, 3P02 or permission of the instructor.

# BTEC 4P09

**Transduction Pathways**

(also offered as BIOL 4P09 and BCHM 4P09)

Perception of stimuli to effects on gene expression, emphasizing the molecular/biochemical tools used to study these pathways.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P01.

# 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: CHEM 2P12 or 2P63.

# 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: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P02 or BIOL 3P50.

# 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: 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: 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: students must have a minimum of 14.0 overall credits or approval to year 4

## BIOTECHNOLOGY

(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 CHEM 3P20, 3P62, 3P63 or permission of the instructor.

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## CO-OP COURSES

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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

Barbara Sainty

#### Professor

Raafat R. Roubi

#### Associate Professors

Ian Adamson, Darlene Bay, Gail Lynn Cook, Louis Culumovic, Maureen E. Donnelly, Paul Dunn, Fayez Elayan, Sandra M. Felton, Patricia M. Myers, Barbara Sainty, Paul Scarbrough, Anamitra Shome, Linda Stillabower, Allister W. Young

#### Assistant Professors

H. Donald Brown, Hemantha Herath, Jingyou (Jennifer) Li, Alex Nikitkov, Samir Trabelsi

#### Lecturers

Carolyn J. Davis, Shari Leitch, Carolyn MacTavish

#### Director, Co-operative Programs

Cindy Dunne

#### Undergraduate Adviser

Donald Brown

### Department of Finance, Operations and Information Systems

#### Chair

Robert Welch

#### Professors Emeriti

Thomas H. Barnes, J. Robert Hanrahan

#### Professors

Martin I. Kusy, Robert Welch

#### Associate Professors

Ernest N. Biktimirov, Danny Cho, Don Cyr, Eugene Kaciak, Kenneth J. Klassen

#### Assistant Professors

Mohamed Ayadi, Antoneh Ayonso, Zhongzhi He, Sahn-Wook Huh, Skandar Lazrak, Onem Ozocak, Anyong Pyo, Francine Vachon, John Walker, Reena Yoogalingam

#### Lecturer

Jun Yang

#### Director, Co-operative Programs

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#### Undergraduate Advisers

Bryan Butryn, Lainie Wagner

### Department of Organizational Behaviour, Human Resource Management, Entrepreneurship and Ethics

#### Chair

Eli Levanoni

#### Professors

William W. Liddell, Carol Sales

#### Associate Professors

Eli Levanoni, E. Sharon Mason, Teresa V. Menzies, Thomas M. Mulligan, Kojo Saffu, Mark J. Thomas, J. David Whitehead, Barry Wright

#### Assistant Professors

Mark Julien, Deborah M. Zinni

#### Lecturer

Michael Robertson

#### Director, Co-operative Programs

Cindy Dunne

#### Undergraduate Advisers

Bryan Butryn, Lainie Wagner

### Department of Marketing, International Business and Strategy

#### Chair

Carman Cullen

#### Professor Emeritus

Kenneth E. Loucks

#### Professors

Barbara J. Austin, A. Tansu Barker, Sheng Deng, W. D. Kenneth Kernaghan

#### Associate Professors

Carman W. Cullen, Herbert MacKenzie, Bulent Menguc, H. Brian W. Metcalfe, Howard W. Prout, Sanjay Putrevu, Ronald H. Rotenberg, Peter Yannopoulos

#### Assistant Professors

Seigyoung Auh

#### Lecturers

M. Sharon Broderick, Lilly Buchwitz, Jacqueline Glenney, David Hunter, William Thurber, Frances Tuer

#### Director, Co-operative Programs

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#### Undergraduate Advisers

Bryan Butryn, Lainie Wagner

### General Information

#### Administrative Assistants

#### Department of Accounting

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Debbie Ouellette

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#### Department of Marketing, International Business and Strategy

Cindy Curtis

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<http://www.bus.brocku.ca>

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. The Faculty of Business also offers a Bachelor of General and Applied Studies to qualified students from the Seneca College three-year Accounting and Finance Program. A five credit Minor in Business is open to Brock students pursuing degrees in other Faculties.

Please refer to the Student Handbook at [www.bus.brocku.ca](http://www.bus.brocku.ca) for program plans noting fall/winter sequencing.

## BUSINESS

### **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.

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.

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### **Periodic Review of Eligibility to Continue**

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#### **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 average 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 the 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 at least one course in each of ACTG, 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. All students must take a minimum of one elective credit in each of years 1 through 4. Students must complete their Science context credit and Humanities context credit by the end of year 3.

2. There is a one-half credit overload for BBA Co-op students during the Fall Term of year 4.

3. No more than 1.0 Letter of Permission credit for ACTG courses numbered 2(alpha)00 or above is permitted for BAcc or BBA students.

4. 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.

5. BAcc students are required to take ACTG 3P41 and ACTG 4P41. Students pursuing the CA designation also require ACTG 4P42. BBA students and students in other programs should take ACTG 4P40 which meets the CMA requirements.

6. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 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 Humanities context credit

#### Year 2

- ACTG 2P21, 2P31 and 2P32
- ECON 2P23 and 2P91
- FNCE 2P91 and 3P93
- POLI 2P62
- one Science context credit

#### Year 3

- ACTG 3P11, 3P23, 3P33, 3P41 and 3P97 (see program note 5)
- MGMT 3P82
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- one-half elective credit

#### Year 4

- ACTG 4P11, 4P12, 4P34 and 4P41 (see program note 5)
- MGMT 4P90
- one elective credit

#### Program A\*:

- ACTG 4P42, 4P61 and 4P62 (see program note 5)

#### Program B\*:

- MGMT 3P98
- one credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54

\*In year 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.

### 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

## BUSINESS

Winter Term:

- ACTG 0N90

*Year 2*

Fall Term:

- ACTG 2P31 and 3P97
- ECON 2P23 and 2P91
- FNCE 2P91

Winter Term:

- ACTG 0N01

Spring/Summer Sessions:

- ACTG 2P21, 2P32 and 3P11
- FNCE 3P93
- MGMT 3P82
- one Science context credit

*Year 3*

Fall Term:

- ACTG 0N02

Winter Term:

- ACTG 0N03

Spring/Summer Sessions:

- ACTG 3P23, 3P33 and 3P41 (see program note 5)
- POLI 2P62

*Year 4*

Fall Term:

- ACTG 4P41 (see program note 5)
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- one-half elective credit

Winter Term:

- ACTG 0N04

Spring/Summer Sessions:

- ACTG 4P34, 4P42 and 4P61 (see program note 5)
- one-half elective credit

*Year 5*

Fall Term:

- ACTG 4P11, 4P12 and 4P62
- MGMT 4P90
- one-half elective credit

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### Bachelor of Accounting for Students Holding Other Degrees

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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.

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### Bachelor of Business Administration

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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 Science context credit (see program note 1)

*Year 2*

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

- ACTG 2P21 and 3P97
- ENTR 3P45
- FNCE 3P93
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one elective credit

*Year 4*

- ACTG 2P31, 2P32, 3P11 and 4P40 (see program note 5)
- MGMT 4P90
- two elective credits
- one-half elective credit numbered 3(alpha)90 or above

#### 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 Science context credit (see program note 1)

*Year 2*

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one of ENTR 3P52, 3P93, 3P94, 3P98, 4P10, 4P93
- one elective credit

*Year 4*

- MGMT 4P90
- one and one-half credits from ENTR 3P52, 3P93, 3P94, 3P98, 4P10, 4P93
- one credit from ACTG 4P40, ENTR 3P98, 4P80, ENTR 4(alpha)90 to 4(alpha)99, OBHR 3P96, 4P65
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one and one-half elective credits

**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.

*Year 1*

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or SCIE context credit (see program note 1)

*Year 2*

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

- ENTR 3P45
- FNCE 3P93 and 3P96
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one elective credit

*Year 4*

- FNCE 4P04 and 4P16
- MGMT 4P90
- one and one-half FNCE credits numbered 3(alpha)90 or above
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half elective credits

**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 Science context credit (see program note 1)

*Year 2*

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one elective credit
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER

*Year 4*

- FNCE 3P96
- MGMT 4P90
- MKTG 3P96
- OBHR 3P97
- one and one-half credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half elective credits

**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.

*Year 1*

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Science context credit (see program note 1)

*Year 2*

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42 and 3P97
- one elective credit

*Year 4*

- MGMT 4P90
- OBHR 3P96
- two and one-half OBHR credits numbered 4(alpha)00 or above
- one and one-half elective credits

Note: The following courses are recognized by the Human Resources Professionals Association of Ontario (HRPAO) as education requirements towards the Certified Human Resource Professional (CHRP) designation: ACTG 1P91, 2P12, OBHR 2P91, 3P42, 3P96, 3P97, 3P98, 4P66, 4P67, 4P69, 4P96

**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 Science context credit (see program note 1)

## BUSINESS

### Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one elective credit
- one-half non-business elective credit

### Year 4

- MGMT 4P90
- two credits from ECON 3P13, 3P93, FNCE 3P96, 4P05, MKTG 4P33, 4P34, OBHR 4P90
- one credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR
- one elective credit or one language credit other than English numbered 1(alpha)90 or above
- one-half elective credit

### 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.

### Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Science context credit (see program note 1)

### Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24 and 3P96
- OBHR 3P42
- one elective credit

### Year 4

- MGMT 4P90
- MKTG 4P25 and 4P31
- one and one-half credits from MGMT 4P82, MKTG 4P23, 4P26, 4P27, 4P28, 4P29, 4P33, 4P34, 4P36, 4P91, 4P92, 4P93, 4P94, 4P95, 4P98, 4V90-4V99
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half elective credits

### 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 Science context credit (see program note 1)

### Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

- ENTR 3P45
- FNCE 3P93
- MGMT 3P98
- MKTG 3P24
- OBHR 3P42
- POLI 2F98 or POLI 3P50 and 3P65
- one elective credit
- one-half non-business elective credit

### Year 4

- ITIS 3P97
- POLI 4P52 and 4P54
- one and one-half credits from POLI 3P52, 4P01, 4P14, 4P15, 4P50, 4V10-4V19, 4V60-4V69
- one credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR
- one elective credit

### 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 Science context credit (see program note 1)

### Year 2

- ACTG 2P12 and 2P40
- ECON 2P23 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER
- one elective credit

### Year 4

- MGMT 4P90
- one credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54 numbered 3(alpha)90 or above
- two credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one and one-half elective credits

### 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 Humanities context credit or Science context credit (see program note 1)

*Year 2*

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

- Fall Term:
- ADMI 0N11

## Winter Term:

- ACTG 2P21 and 2P40
- ECON 2P23
- MGMT 3P82
- OPER 2P91

## Spring/Summer Sessions:

- ADMI 0N12

*Year 4*

## Fall Term:

- ACTG 2P31 and 3P97
- ENTR 3P45
- MGMT 3P98
- one elective credit (see program note 2)

## Winter Term:

- ADMI 0N13

## Spring/Summer Sessions:

- ACTG 2P32 and 3P11
- one elective credit

*Year 5*

## Fall Term:

- ACTG 4P40
- MGMT 4P90
- one elective credit numbered 3(alpha)90 or above
- one-half elective credit

## 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 Humanities context credit or Science context credit (see program note 1)

*Year 2*

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

## Fall Term:

- ADMI 0N11

## Winter Term:

- ECON 2P23
- ENTR 3P45
- ITIS 3P97
- OPER 2P91
- one-half credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER

## Spring/Summer Sessions:

- ADMI 0N12

*Year 4*

## Fall Term:

- MGMT 3P98
- one credit from ACTG 4P40, ENTR 3P98, 4P80, ENTR 4(alpha)90-4(alpha)99, OBHR 3P96, 4P65
- one and one-half elective credits (see program note 2)

## Winter Term:

- ADMI 0N13

## Spring/Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

*Year 5*

## Fall Term:

- MGMT 4P90
- Two credits from ENTR 3P52, 3P93, 3P94, 3P98, 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 Humanities context credit or Science context credit (see program note 1)

*Year 2*

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

*Year 3*

## Fall Term:

- ADMI 0N11

## Winter Term:

- ECON 2P23
- ENTR 3P45
- FNCE 3P96
- ITIS 3P97
- OPER 2P91

## Spring/Summer Sessions:

- ADMI 0N12

*Year 4*

## Fall Term:

- FNCE 4P04 and 4P16
- MGMT 3P98
- one and one-half elective credits (see program note 2)

## Winter Term:

- ADMI 0N13

## Spring/Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

## BUSINESS

### 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 4(alpha)00 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 Humanities context credit or Science context credit (see program note 1)

### Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

#### Fall Term:

- ADMI 0N11

#### Winter Term:

- ECON 2P23
- ENTR 3P45
- ITIS 3P97
- OPER 2P91
- one of FNCE 3P96, MKTG 3P96, OBHR 3P97

#### Spring/Summer Sessions:

- ADMI 0N12

### Year 4

#### Fall Term:

- MGMT 3P98
- one credit from FNCE 3P96, MKTG 3P96, OBHR 3P97 (not taken in year 3)
- one and one-half elective credits (see program note 2)

#### Winter Term:

- ADMI 0N13

#### Spring Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

### 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)

### Year 1

- ACTG 1P91
- ECON 1P91 and 1P92
- ITIS 1P97
- MGMT 1P93 and 1P96
- MATH 1P97 and 1P98
- one Humanities context credit or Science context credit (see program note 1)

### Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

#### Fall Term:

- ADMI 0N11

#### Winter Term:

- ECON 2P23
- ENTR 3P45
- ITIS 3P97
- OBHR 3P97
- OPER 2P91

#### Spring Summer Sessions:

- ADMI 0N12

### Year 4

#### Fall Term:

- MGMT 3P98
- OBHR 3P96
- one OBHR credit numbered 4(alpha)00 or above
- one elective credit (see program note 2)

#### Winter Term:

- ADMI 0N13

#### Spring Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

### Year 5

#### Fall Term:

- MGMT 4P90
- one and one-half OBHR credits numbered 4(alpha)00 or above
- one-half elective credit

#### 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 Humanities context credit or Science context credit (see program note 1)

### Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

### Year 3

#### Fall Term:

- ADMI 0N11

#### Winter Term:

- ECON 2P23
- ENTR 3P45
- ITIS 3P97
- OPER 2P91
- one of ECON 3P13, 3P93, FNCE 3P96, 4P05, MGMT 4P82, MKTG 4P33, 4P34, OBHR 4P90

#### Spring/Summer Sessions:

- ADMI 0N12

### Year 4

#### Fall Term:

- MGMT 3P98
- one credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR



- one of ECON 3P13, 3P93, FNCE 3P96, 4P05, MKTG 4P33, 4P34, OBHR 4P90
- one non-business elective (see program note 2)

Winter Term:  
•ADMI 0N13

Spring Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit or one language credit other than English numbered 1(*alpha*)90 or above

Year 5

Fall Term:

- MGMT 4P90
- one credit from ECON 3P13, 3P93, FNCE 3P96, 4P05, MKTG 4P33, 4P34, OBHR 4P90
- one elective credit

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 Humanities context credit or Science context credit (see program note 1)

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

Year 3

Fall Term:  
•ADMI 0N11

Winter Term:

- ECON 2P23
- ENTR 3P45
- ITIS 3P97
- MKTG 3P96
- OPER 2P91

Spring Summer Sessions:

- ADMI 0N12

Year 4

Fall Term:

- MGMT 3P98
- MKTG 4P25 and 4P31
- one-half credit from ACTG, ENTR, FNCE, MGMT, ITIS, MKTG, OBHR, OPER, POLI 4P54
- one elective credit (see program note 2)

Winter Term:

- ADMI 0N13

Spring/Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

Year 5

Fall Term:

- MGMT 4P90
- one and one-half credits from MGMT 4P82, MKTG 4P23, 4P26, 4P27, 4P28, 4P29, 4P33, 4P36, 4P34, 4P91, 4P92, 4P93, 4P94, 4P95, 4P98, 4V90-4V99
- one-half elective credit

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 Science context credit (see program note 1)

Year 2

- ACTG 2P12
- ADMI 0N90
- ECON 2P91
- FNCE 2P91 and 3P93
- MKTG 2P91 and 3P24
- OBHR 2P91 and 3P42
- the Humanities context credit or Science context credit not taken in year 1 (see program note 1)

Year 3 Winter Term, Years 4 and 5 Fall Term:

- Contact the Department for course requirements

Year 3

Fall Term:

- ADMI 0N11

Spring Term:

- ADMI 0N12

Year 4

Winter Term:

- ADMI 0N13

Spring Term:

- ACTG 2P40
- MGMT 3P82
- one elective credit

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### Bachelor of General and Applied Studies

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Applicants who have graduated from the Seneca College three-year Accounting and Finance Program with a minimum 3.5 grade point average will be granted eight transfer credits. To complete the Bachelor of General and Applied Studies degree at Brock, the student must complete the following:

- One Humanities context credit
- one Science context credit
- one Social Science context credit
- four elective credits (one of which may be in business) numbered 2(*alpha*)00 or above

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### Combined Honours Program

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Combined Honours programs leading to a Bachelor of Arts (Honours) degree are available in Business and Economics, Business and Great Books/Liberal Studies and Business and Political Science.

#### Business and Economics

See the Economics entry for a listing of course requirements.

#### Business and Great Books/Liberal Studies

See the Great Books/Liberal Studies entry for a listing of course requirements.

#### Business and Political Science

See the Political Science entry for a listing of course requirements.

Also reference Computing and Business, Business Economics, and Communications Studies.

## BUSINESS

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### Minor in Business

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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 4)
- FNCE 2P51
- MGMT 1P51, 1P52 and 3P51 (see program note 4)
- MKTG 2P51
- OBHR 2P51
- OPER 2P51

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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 in ACTG 1P91.

### ACTG 1P12

#### Introduction to Accounting II

Continuation of ACTG 1P11 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 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 aud 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 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 and combined Business majors 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 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 and combined Business majors 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 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, 2P12 or permission of the instructor.

Note: enrolment limited to 40 students per section.

### ACTG 2P31

#### Accounting for External Reporting I

Theory and practice of financial statement preparation including the measurement, reporting and disclosure of assets, liabilities, equity, revenue and expenses with specific reference to generally accepted accounting principles.

*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, 2P12 or permission of the instructor.

Note: enrolment limited to 40 students per section.

### ACTG 2P32

#### Accounting for External Reporting II

Theory and practice of financial statement preparation in accordance with generally accepted accounting principles.

*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 or permission of the instructor.

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 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) or permission of the instructor.

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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### ACTG 3P33

##### Accounting for External Reporting III

Theory and practice of financial statement preparation in accordance with generally accepted accounting principles.

*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 or permission of the instructor.

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 is examined in detail.

*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, 2P12 or permission of the instructor.

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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in ACTG 3P22, ITIS 3P97 and MGMT 4P12.

#### 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 BBA students approved to the finance concentration, BAcc students and BBE financial economics option students until date specified in Registration guide. After that date open to BBA, BBE, BCB and combined majors and to students who hold a minimum 70 percent major average and a minimum 60 percent non-major average.

Prerequisite: FNCE 3P93 or permission of the instructor.

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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### ACTG 4P12

##### Integration and Problem Solving

Problem solving which integrates the sub disciplines of accounting in the context of a

## BUSINESS

wider view of organizations through the examination of a variety 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.

Prerequisites: ACTG 3P23 and 4P34 or permission of the instructor.

Note: ACTG 4P34 may be taken concurrently. Enrolment limited to 40 students per section.

### ACTG 4P34

#### Accounting for External Reporting IV

Theory and practice of financial statement preparation in accordance with generally accepted accounting principles emphasizing accounting for complex business organizations and 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 or permission of the instructor.

Note: 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 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; not open to BAcc majors.

Prerequisite: ACTG 1P12, 2P12 or permission of the instructor.

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 or permission of the instructor.

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 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 or permission of the instructor.

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 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 or permission of the instructor.

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.

Prerequisite: ACTG 4P61 or permission of the instructor.

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 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 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

**Introduction to Entrepreneurship**

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 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 in ENTR 3P45.

ENTR 3P45

**Entrepreneurial Management**

Theories of entrepreneurship and intrapreneurship, entrepreneurial attributes, new venture creation processes, business 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: FNCE 2P91, MKTG 2P91 and OBHR 2P91.

Completion of this course will replace previous assigned grade in ENTR 2P51.

ENTR 3P52

**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, 3P45 or permission of the instructor.

ENTR 3P93

**New Venture Management**

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, 3P45 or permission of the instructor.

Note: enrolment limited to 40 students per section.

ENTR 3P94

**Intrapreneurship**

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, 3P45 or permission of the instructor.

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 2P51, 2P91 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in MGMT 4P98 and 4V98.

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: to be chosen in consultation with the supervising faculty member.

## BUSINESS

### ENTR 4P10

#### Planning for 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, 3P45 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in ENTR 3P91 and 3P92.

### ENTR 4P80

#### Managing High Growth Organizations

Techniques for managing organizations during high rates of growth emphasizing stages beyond startup. Role of the team leader, external relations, human resources selection and development, financial resources, facilities and communications.

*Lectures, case discussion, 3 hours per week.*

Prerequisites: ENTR 2P51 or 3P45; OBHR 3P42 or permission of the instructor.

Note: enrolment limited to 40 students per section.

### 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, 3P45 or permission of the instructor.

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.

## 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 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 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 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 1P98.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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.

Prerequisite: FNCE 3P93 (minimum 60 percent) or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### FNCE 4P02

##### Corporate Financial Policy

Students are provided with an opportunity through case discussions to develop and apply their understanding of the material in FNCE 2P91 and 3P93 to situations encountered in a variety of 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 or permission of the instructor.

Note: enrolment limited to 30 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. After that date students must hold a minimum 70 percent major average and a minimum 60 percent non-major average.

Prerequisite: FNCE 3P93 or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### FNCE 4P04

##### Investment Analysis and Portfolio Management

Synthesis of theoretical finance and the art of investing in Canada. Theoretical and practical valuation models for individual securities are reviewed within a framework of market efficiency, portfolio theory and capital market theory. Portfolio construction timing and

performance evaluation are included.

*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 or permission of the instructor.

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 3P96, or FNCE 3P93 and MGMT 3P98 or permission of the instructor.

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 or permission of the instructor.

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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### FNCE 4P14

##### Personal Financial Strategies

Advanced personal wealth management, sophisticated tax management strategies, advanced estate management including bestowing gifts through trusts and estate freezing, the use of insurance products for tax planning and business succession management, the legal and ethical considerations in personal financial planning.

*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 or permission of the instructor.

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.

## BUSINESS

### 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.

## 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 and BBA students. 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 3P97

#### Management of Information Systems and Technology

Basic understanding of the value and uses of information systems for business operation and management decision making. Use and management of information technology in business organizations for strategic advantage. Information system/technology applications to business including intranet, extranet and e-commerce. Analysis, design, implementation and maintenance of information systems as well as the management challenges of information technology.

*Lectures, discussion, 3 hours per week.*

Restriction: open to BBA students. In Winter 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 in ACTG 3P22, 3P97 and MGMT 4P12.

### 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 modeling 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 or BBA students.

Prerequisite: ITIS 3P97 or ACTG 3P97.

Note: enrolment limited to 40 students per section.

### ITIS 4P22

#### eBusiness Applications

Architecture of e-commerce applications and communications infrastructure supporting ebusiness. Managing ebusiness practices and strategic deployment of e-business for global competitive advantage.

*Lectures, lab, 3 hours per week.*

Restriction: open to BAcc or BBA students.

Prerequisite: ITIS 3P97 or ACTG 3P97.

Note: enrolment limited to 40 students per section.

### ITIS 4P25

#### Systems Analysis and Design

Fundamentals of computer-based information systems analysis. System development life cycle and design strategies. Feasibility study, process modeling, and data modeling. System prototyping, implementation, operation and maintenance, and security. User involvement and training. Measurement and evaluation of system performance. Emerging trends in approaches to systems development.

*Lectures, lab, 3 hours per week.*

Restriction: open to BAcc or BBA students.

Prerequisite: ITIS 3P97 or ACTG 3P97.

Note: enrolment limited to 40 students per section.

### \* ITIS 4P26

#### Supply Chain Management (also offered as OPER 4P26)

Supply chain modeling and performance. Managing material, information, and financial flows in a supply chain. Enabling roles of the Internet, technology and information in Supply chain management. 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 and BCB majors or permission of the instructor.

Prerequisites: ITIS 3P97 or ACTG 3P97; OPER 2P91.

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.

**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 and TOUR majors 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 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 and TOUR majors until date specified in the Registration guide. Not open to BAcc, BBA and combined Business majors.

Prerequisite: MGMT 1P51 (1P92) or permission of instructor.

Completion of this course will replace previous assigned grade in MGMT 1P91 and 1P93.

## MGMT 1P93

**Introduction to Business in Canada**

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 BAcc, BBA, BCB and combined Business majors.

Completion of this course will replace previous assigned grade in MGMT 1P51, 1P52, 1P91 and 1P92.

## MGMT 1P96

**Business Analysis and Reporting**

Skill-based introduction to business problem solving. Structured case study analysis to develop critical thinking, teamwork, professionalism, report writing and business presentations.

*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.

## 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 in 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 in MGMT 3P80, 3P81, 4P89.

## MGMT 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; the social purpose of business; rights and responsibilities of employees and employers; product and workplace safety; the roles of shareholders and other stakeholders; environmental issues; the 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 in MGMT (PHIL) 2P82.

## 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 and BBA students 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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

## MGMT 3V90-3V99

**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: to be chosen in consultation with the supervising faculty member.

## 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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

## BUSINESS

Completion of this course will replace previous assigned grade 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

#### eBusiness 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 in MGMT 4V93.

### MGMT 4P95

#### Canadian Business History

Development of modern Canadian corporations and management practices emphasizing certain industries, companies and entrepreneurs. Analyses of the implications of changing economic, political and social forces on the strategic decisions made by managers.

*Seminar, 3 hours per week.*

Note: enrolment limited to 40 students per section.

### MGMT 4P97

#### Advanced Topics in Business and Society

Selected topics in business ethics/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 as social issues, the relation of business and government as a set of social issues.

*Seminar, case discussion, student presentations, 3 hours per week.*

Prerequisite: MGMT 2P82, 3P82 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in MGMT 4V97.

### 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 until date specified in Registration guide. Not open to BAcc, BBA, BBE and combined Business majors.

Prerequisite: MGMT 1P51 (1P92) and 1P52 (1P91).

Completion of this course will replace previous assigned grade 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 and combined Business majors.

Prerequisite: MKTG 2P51.

Completion of this course will replace previous assigned grade in MKTG 2P91, MKTG 3P24, MKTG (OEVI) 4P92, OEVI 4V92, RECL (TOUR) 3P40 and SPMA 3P65.

### MKTG 2P91

#### Introduction to Marketing

The 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 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, 1P91 or permission of the instructor.

Completion of this course will replace previous

assigned grade 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 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 3P24, or MKTG 2P52 and COMM 3P65.

Note: a fieldwork assignment will be required. 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: 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 3P24, or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students per section.

#### MKTG 4P25

##### **Marketing Strategy**

Development and execution of marketing strategies. 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 3P24 or MKTG 2P52 and COMM 3P65.

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 3P24 or MKTG 2P52 and COMM 3P65.

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 3P24 or MKTG 2P52 and COMM 3P65.

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 3P24 or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students per section.

#### MKTG 4P31

##### **Consumer Behaviour**

The 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.

Prerequisites: MKTG 3P24, or MKTG 2P52 and COMM 3P65.

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.

Prerequisites: MKTG 3P24, or MKTG 2P52 and COMM 3P65 or permission of the instructor.

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 3P24 or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students per section.

#### MKTG 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 BBA, BBE and combined Business majors with a minimum of 13.5 overall credits and permission of the Chair and supervising faculty member.

## BUSINESS

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 in MKTG 2P52, 4V92 and OEVI 4V92.

### 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 3P24 or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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 3P24 or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students.

Completion of this course will replace previous assigned grade 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 3P24, or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students.

Completion of this course will replace previous assigned grade 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: students must have a minimum of 10.0 overall credits.

Prerequisite: MKTG 3P24, 3P96 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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 until specified date in Registration guide. Not open to BAcc, BBA and combined Business majors. Prerequisites: MGMT 1P51 (1P92) and 1P52 (1P91).

Completion of this course will replace previous assigned grade in OBHR 2P91, 3P42, RECL 2P10, 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 and combined Business majors.

Prerequisite: OBHR 2P51 or 2P91.

Completion of this course will replace previous grade in OBHR 3P96, 3P97, 4P63, RECL 2P10, 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 include motivation, leadership, group dynamics, interpersonal communication, conflict and stress management.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BAcc, BBA, BBE, BCB 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 or permission of the instructor.

Completion of this course will replace previous assigned grade 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 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 3P42 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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 3P42 or permission of the instructor.

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 3P42, or OBHR 2P52 and COMM 3P65 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in OBHR 4P98 and 4V98.

#### 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: OBHR 3P42, or OBHR 2P52 and COMM 3P65 or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### OBHR 4P65

##### Negotiating in Organizations

The 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 permission of the instructor.

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

## BUSINESS

minimum of 10.0 overall credits.

Prerequisite: OBHR 3P97 or permission of the instructor.

Note: enrolment limited to 40 students per section.

### OBHR 4P68

#### Leadership

Leadership and supervision in a variety of organizational settings. Topics include leadership research, leadership effectiveness through the organizational hierarchy with a particular focus on middle management issues, the new supervisor, supervisory and other managerial roles.

*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: OBHR 3P42, or OBHR 2P52 and COMM 3P65 or permission of the instructor.

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 or permission of the instructor.

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: OBHR 3P42, or OBHR 2P52 and COMM 3P65 or permission of the instructor.

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: OBHR 3P42, or OBHR 2P52 and COMM 3P65 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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 4P92

#### Human Resource Management Research Methods And Designs

Techniques and methods of conducting

reliable and valid Human Resources research including measurement and evaluation using experimental, survey, quantitative, and qualitative research methods. Emphasis on understanding and critical evaluation of empirical human resource management (HRM) and organizational behaviour, organizational theory (OB/OT) studies.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the human resource 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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in OBHR 4V92.

### 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: OBHR 3P42, or OBHR 2P52 and COMM 3P65 or permission of the instructor.

Note: enrolment limited to 40 students.

Completion of this course will replace previous assigned grade 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 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 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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 4P63 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade 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.

### **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.

Prerequisites: ACTG 1P91, MGMT 1P51 (1P92) and 1P52 (1P91).

Completion of this course will replace previous assigned grade 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 and combined Business majors with a minimum of 5.0 overall credits. 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.

Prerequisite: ACTG 1P12 or 2P12; ECON 2P91 and ITIS 1P97

Completion of this course will replace previous assigned grade 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 and BCB majors or permission of the instructor.

Prerequisite: OPER 2P91.

Completion of this course will replace previous assigned grade 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 BAcc, BBA and BCB majors or permission of the instructor.

Prerequisite: OPER 2P91.

#### # OPER 4P26

##### **Supply Chain Management**

(also offered as ITIS 4P26)

Supply chain modeling and performance. Managing material, information, and financial flows in a supply chain. Enabling roles of the Internet, technology and information in Supply chain management. 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 and BCB majors or permission of the instructor.

Prerequisites: OPER 2P91; ACTG 3P97 or ITIS 3P97.

#### 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.

# Business Economics

*This program is co-ordinated by the Department of Economics*

*Co-ordinator*  
Joseph Kushner

*Director, Co-operative Programs*  
Cindy Dunne

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## General Information

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*Administrative Assistant*  
Karen Phillips

905-688-5550, extension 4697  
Taro Hall 410  
<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 a 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 con-

tinue 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 courses such as COSC 1P93, 1P95 or 1P96 as elective credits.

Graduates of the Business Economics program may pursue graduate studies in Economics without taking additional courses.

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## Program Notes

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1. ECON 1P91 and 1P92 may be taken concurrently or in either order.
2. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and, of these, three must be numbered 3(*alpha*)90 or above.

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## Honours Program

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### Financial Economics stream

#### Year 1

- ACTG 1P91 and 2P12
- ECON 1P91 and 1P92
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit

#### Year 2

- ECON 2P21, 2P22, 2P90 and 2P94
- FNCE 2P91
- MKTG 2P91
- one ECON credit
- one non-business elective credit

#### Year 3

- ECON 3P03, 3P04, 3P21, 3P22, 3P90, 3P91 and 3P92

- FNCE 3P93 and 3P96
- one-half non-business elective credit

#### Year 4

- ECON 3P95, 4P13 and 4P14
- one of ECON 3P15, 3P24, 3P94, 3P96, 3P97
- one and one-half credits from FNCE 4P04, 4P05, 4P15, 4P16, 4P17
- one-half credit numbered 4(*alpha*)00 or above from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
- one non-business elective credit

### Consumer Economics stream

#### Year 1

- ACTG 1P91 and 2P12
- ECON 1P91 and 1P92
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit

#### Year 2

- ECON 2P21, 2P22, 2P90 and 2P94
- FNCE 2P91
- MKTG 2P91
- one ECON credit
- one non-business elective credit

#### Year 3

- ECON 3P06, 3P16, 3P21, 3P22, 3P90, 3P91 and 3P92
- one of ECON 3P13, 3P18, 3P24, 3P93
- 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 numbered 4(*alpha*)00 or above 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
- MATH 1P01 or 1P97
- MATH 1P98



- one Humanities context credit
- one Science context credit

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Description of Courses

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*Year 2*

- ECON 0N90, 2P21, 2P22, 2P90, 2P94, 3P21 and 3P22
- FNCE 2P91
- MKTG 2P91
- one non-business elective credit

See relevant calendar entry for course descriptions.

*Year 3*

Fall Term:

- ECON 3P03, 3P90, 3P91 and 3P92
- FNCE 3P93

Winter Term:

- ECON 0N01

Spring/Summer Sessions:

- one-half ECON credit numbered 2(*alpha*)90 or above
- ECON 3P04
- 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
- FNCE 3P96 and 4P05

Spring/Summer Sessions:

- ECON 0N03

*Year 5*

Fall Term:

- FNCE 4P04 and 4P16
- one ECON credit
- one-half non-business elective credit

# Canadian Studies

Director

Murray Wickett, Department of History

Assistant Professor

Donald Wright (History)

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## General Information

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Administrative Assistant

Sylvia Barlow

905-688-5550, extension 4029

Mackenzie Chown D474

<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 Communications, 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 offers a combined major program.

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## Program Notes

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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 Science" 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. CANA 1F91 will satisfy the Humanities context requirement.

4. Humanities students must take POLI 1F90 as their Social Science context elective in year 1 and POLI 2F12 in year 2. Social Science students must take one credit from HIST 2P01, 2P02, 2Q90 as part of their program.

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 Director and the Chair or Director of the co-major discipline at the beginning of the second 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 at the end of year 3.

9. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered

3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- CANA 1F91
- one credit from the co-major discipline
- one Social Science context credit (see program note 4)
- one Science context credit
- one elective credit (see program note 2)

### Year 2

- CANA 2P91 and 2P92
- POLI 2F12 or one credit from HIST 2P01, 2P02, 2Q90 (see program note 4)
- two credits from the co-major discipline
- one elective credit (see program note 2)

### Year 3

- CANA 3P16
- CANA 3Q98 or one-half CANA credit numbered 2(alpha)90 or above from the list of approved Canadian Studies courses
- one credit numbered 2(alpha)90 or above from the list of approved Canadian Studies courses
- two credits from the co-major discipline
- one elective credit (see program note 8)

### Year 4

- CANA 4F80 or 4F99
- one credit numbered 3(alpha)90 level or above from the list of approved Canadian Studies courses
- two credits from the co-major discipline
- one elective credit

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## Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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**Minor in Canadian Studies**


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Students in other disciplines can obtain a Minor in Canadian Studies within their degree program by completing the following courses:

- CANA 1F91, 2P91 and 2P92
- two credits from the list of approved Canadian Studies credits numbered 2(*alpha*)90 or above

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**Approved Canadian Studies Courses Offered by Other Departments**


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Note: As many of the courses listed below have prerequisites, students should plan their programs in advance.

\*Courses which may be used to fulfil the French/French Canadian requirement.

ABST 2F90  
Studies in Hodinohsonni History I

ABST 2F96  
Studies in Hodinohsonni Culture I

COMM 3P14  
Media Industries  
(also offered as PCUL/SOCI 3P14)

COMM 4P17  
Canadian Cultural and Communications Policy  
(also offered as PCUL 4P17)

COMM 4P55  
Advertising, Mass Media and Culture  
(also offered PCUL 4P55)

DART 2P96  
Aboriginal Theatre

DART 2P97  
Canadian Theatre

ECON 2P09  
Canadian Economic History

ECON 2P94  
Canadian Economic Issues  
(also offered as LABR 2P94)

ECON 2V60-2V69  
Topics in Canadian Economic Policy

ENGL 2P91  
Canadian Literature to 1920

ENGL 2P92  
Canadian Literature from 1920 to the Present

ENGL 3V60-3V69  
Special Topics in Canadian Literature

ENGL 4V60-4V69  
Topics in Contemporary Canadian Writing

FILM 2P56  
Canadian Cinema  
(also offered as COMM 2P56)

FILM 3P21  
Canadian Television  
(also offered as COMM/PCUL 3P21)

FILM 3P56  
Issues in Canadian Cinema  
(also offered as COMM 3P56)

\*FREN 1F90  
Intermediate French

\*FREN 1P01  
Introductory French I

\*FREN 1P02  
Introductory French II

\*FREN 1P03  
Introductory French III

\*FREN 2F00  
Grammar and Composition

\*FREN 3P73  
French Canadian Literature in French to 1939

\*FREN 3P74  
French Canadian Literature in French from 1939-1960

\*FREN 3P96  
Contemporary Canadian Theatre in French

GEOG 2P03  
Urban Geography  
(also offered as ENVI 2P03)

GEOG 2P06  
Cultural and Historical Geography  
(also offered as PCUL 2P06)

GEOG 2P50  
Geography of Canada

GEOG 3P74  
Geography and Gender  
(also offered as COMM/ WISE 3P74)

HIST 2P01  
Pre-Confederation Canada

HIST 2P02  
Post-Confederation Canada

HIST 2Q90  
Canada: Nations Transformed

HIST 2Q95  
Women in North America  
(also offered as WISE 2Q95)

HIST 3P01  
Canadian Prime Ministers, 1867 to the Present

HIST 3P35  
North America's First Nations

HIST 3P74  
Canadian Immigration and Ethnic History

HIST 3P75  
Canadian Labour History  
(also offered as LABR 3P75)

HIST 3P76  
Canadian Regional History

\*HIST 3P98  
French Canada

LABR 2P03  
Labour Law and Labour Unions  
(also offered as POLI 2P03)

LABR 2P34  
Contemporary Labour Movements  
(also offered as SOCI 2P34)

LING 4P50  
Topics in Sociolinguistics

MUSI 3P91  
History of Music in Canada

PCUL 2P21  
Canadian Popular Culture  
(also offered as COMM/FILM 2P21)

PEKN 4P50  
Social History of Sport and Leisure in Canada

CANADIAN STUDIES

POLI 2F12  
The Government and Politics of Canada

POLI 3P05  
Canadian Political Thought

POLI 3P11  
Local Government

POLI 3P12  
Canadian Political Parties and Electoral Behaviour

POLI 3P13  
The Politics of Labour  
(also offered as LABR 3P13)

POLI 3P15  
Politics in Ontario

POLI 3P17  
Politics and the Mass Media in Canada  
(also offered as COMM 3P17)

POLI 3P18  
Law and Politics

POLI 3P28  
Canadian Foreign Policy

POLI 3P50  
Canadian Public Administration  
(also offered as LABR 3P50)

POLI 3P66  
Environmental Policy, Law and Administration  
(also offered as ENVI 3P66)

POLI 3P67  
Issues in Canadian Public Policy  
(also offered as LABR 3P67)

POLI 4P14  
Federalism in Canada

POLI 4P15  
Canadian Political Economy  
(also offered as LABR 4P15)

POLI 4P19  
The Canadian Judicial Process

POLI 4P50  
Machinery of Government

POLI 4P52  
Managing the New Public Organization

POLI 4P54  
Business-Government Relations  
(also offered as LABR 4P54)

POLI 4V10-4V19  
Issues in Canadian Politics

POLI 4V60-4V69  
Selected Topics in Canadian Public Policy

SOCI 2P22  
Education and Equity

SOCI 2P32  
In and Out of Work in the Global Economy  
(also offered as LABR 2P32)

SOCI 3P36  
Critical Issues in Contemporary Society

SOCI 3P46  
Aboriginal Peoples and Canadian Society  
(also offered as ABST 3P46)

SOCI 3P47  
Racism and Anti-Racism

SOCI 3P51  
Gender and Society  
(also offered as WISE 3P51)

SOCI 4P33  
Advanced Seminar in Law and Society

SOCI 4P70  
Social Issues in the Community

SOCI 4Q41  
Advanced Seminar in Social Policy

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 INTL/SOCI 2P99)

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Description of Courses

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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

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Prerequisites and Restrictions

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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**  
The development of Canadian culture from the beginning of colonization to the present. An interdisciplinary examination of cultural expressions drawn from Canadian art, literature and music, as well as selected issues in Canadian social and cultural history.  
*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 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 in CANA 2F91.

#### CANA 3M90-3M99

##### **Selected Interdisciplinary Studies**

Application of principles of interdisciplinary studies and techniques to the study of Canada.

#### # 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 3Q98

##### **Myth, Memory and Meaning in Canadian Cultural History**

(also offered as HIST 3Q98)

How different groups and individuals have remembered, commemorated and assigned meanings to the past focussing primarily on the post-Confederation period.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CANA and HIST (single or combined) majors 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.

Completion of this course will replace previous assigned grade in CANA 3V91.

#### 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.*

Prerequisite: CANA 2P91, 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, 2P92 (2F91) or permission of the instructor.

#### CANA 4F80

##### **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. Students will also be required to participate in staging an annual Canadian Studies colloquium.

#### 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 4V10-4V70

##### **Topics in Canadian History**

*Seminar, 3 hours per week.*

#### # CANA 4V66

##### **2005-2006: Canadian Historical Writing**

(also offer as HIST 4V66)

Classic texts in Canadian historical writing.

*Seminar, 3 hours per week.*

Restriction: open to CANA and HIST (single or combined) majors with approval to year 4 (honours) until date specified in Registration guide and then open to other students with permission of the Department.

# Chemistry

## Chair

Jeffrey K. Atkinson  
Art van der Est (as of July 1, 2005)

## Professors Emeriti

Martin S. Gibson, Richard R. Hiatt, David C. Moule

## Professors

Ian D. Brindle, J. Stephen Hartman, Tomas Hudlicky, Jack M. Miller, Andrew G. Reynolds, Mary Frances Richardson, Stuart M. Rothstein

## Associate Professors

Jeffrey K. Atkinson, Heather L. Gordon, Melanie Pilkington, Art van der Est

## Assistant Professors

Travis Dudding, Costa Metallinos

## Lecturer

Roger L.J. McLaughlin

## Adjunct Professor

Christopher H. Marvin

## Senior Demonstrators

Gail Neff, Paul Zelisko

## Senior Demonstrator - Research Technician

Donna Vukmanic

## Co-ordinator, Analytical Services

T. R. B. Jones

## Director, Co-operative Programs

Cindy Dunne

## Co-operative Program Co-ordinator

Stuart M. Rothstein

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## General Information

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### Administrative Assistant

Christine Skorski

905-688-5550, extension 3406

Mackenzie Chown E206

<http://www.brocku.ca/chemistry>

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

- Professional schools may require an introductory PHYS credit with a lab.
- The elective credits are normally taken from the Faculty of Mathematics and Science (except ASTR 1F00, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, 1P93 and SCIE 1F30).
- COSC 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.
- 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.
- 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.
- Students with a minimum 70 percent in OAC or Grade 12U chemistry take CHEM 1F92. They may not take CHEM 1P00 without permission from the Department, which is granted only in exceptional cases.

7. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 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
- one Humanities context credit
- one Social Science context credit

#### Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- one of PHYS 2P20, 2P31, 2P50, 2P51
- one-half COSC 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, 3P31, 3P32, 3P51, 3P53, 3P63
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2)
- one elective credit (CHEM 3P60 recommended; see program notes 2 and 5)

#### Year 4

- CHEM 4F90 and 4F91
- one credit from CHEM 3P20, 3P21, 3P31, 3P32, 3P51, 3P53, 3P63 (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
- one Humanities context credit
- one Social Science context credit

#### Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- SCIE 0N90
- one of PHYS 2P20, 2P31, 2P50, 2P51
- one-half COSC 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, 3P31, 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, 3P32, 3P41, 3P53, 3P63

#### 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
- one Humanities context credit
- one Social Science context credit

#### Spring/Summer Sessions:

- one-half elective credit

## CHEMISTRY

### Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- COSC 1P93
- MATH 2F05, or MATH 2P81 and 2P82
- one of PHYS 2P20, 2P31, 2P50, 2P51
- SCIE 0N90

### Spring/Summer Sessions:

- CHEM 0N01 and 2P98

### Year 3

#### Fall Term:

- CHEM 3P20, 3P31, 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, 3P32, 3P41, 3P53 and 3P63

### 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
- ENVI 1P90 and 1P91
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)

### 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 3P40 and 3P41
- two credits from CHEM 3P20, 3P21, 3P31, 3P32, 3P60
- ENVI 3P01 and 3P02
- one elective credit (BIOL recommended)

### Year 4

- CHEM 4F90, 4F91 and 4P41
- ENVI 4P88
- 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
- one Humanities context credit
- one Social Science context credit

### Year 2

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- one of PHYS 2P20, 2P31, 2P50, 2P51
- one-half COSC 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, 3P31, 3P32, 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, 3P31, 3P32, 3P40, 3P51, 3P53 (not taken in year 3)
- three CHEM credits numbered 3(alpha)90 or above
- one elective credit (CHEM 3P60 and either CHEM 3P62 or 3P63 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 and a BSc Integrated (Pass)/BEd program. The Chemistry BSc (Honours)/BEd programs 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). The BSc Integrated (Pass)/BEd combines the BSc Integrated Pass program with the teacher education program for students interested in teaching at the Junior/Intermediate level (grades 4-10). Refer to the Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior), Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) or Education-Concurrent BSc Integrated Studies



(Pass)/BEd (Junior/Intermediate) program listings for further information.

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### Combined Major Program

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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, 1P02, 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 Science 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 2P20, 2P31, 2P50, 2P51
- the Humanities context credit or Social Science 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 3P31 and 3P32
- 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)
- PHYS 1P21 or 1P91 (recommended; see program note 1)
- PHYS 1P22 or 1P92 (recommended; see program note 1)
- MATH 1P01 and 1P02
- one Humanities context credit
- one Social Science context credit

##### Year 2

- CHEM 2P12, 2P20, 2P32 and 2P42
- PHYS 2P20, 2P31, 2P50 and 2P51
- MATH 2F05

##### Year 3

- CHEM 3P51
- PHYS 3P35 and 3P36
- MATH 3P08 and 3P09
- one and one-half credits from CHEM 3P20, 3P21, 3P31, 3P32, 3P40, 3P41, 3P53
- one elective credit

##### Year 4

- CHEM 4F90 and 4F91 or PHYS 4F90 and 4F91
- one of CHEM 3P20, 3P21, 3P31, 3P32, 3P40, 3P41, 3P53
- one CHEM or PHYS credit numbered 2(alpha)90 or above
- one of PHYS 3P20, 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.

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### Brock-Mohawk College Articulation Agreement

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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.

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### Minor in Chemistry

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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

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### Master of Science (MSc) Program

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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.

## CHEMISTRY

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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; plus a minimum of six 3-hour labs per term.*

Prerequisite: a minimum 70 percent grade in OAC or Grade 12U 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: not open to students with 70 percent or greater in OAC or Grade 12U chemistry (or equivalent course). CHEM 1P00 is designed to assist those with insufficient background in

chemistry to succeed in CHEM 1F92. Students with less than 70 percent in OAC or Grade 12U chemistry, or who have not taken an advanced high school chemistry course are allowed 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; MATH 1P01 and 1P02 (preferred), or 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.

#### 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; MATH 1P01 and 1P02 (preferred), or 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 3P31

#### Transition Metal Chemistry

Systematic inorganic and organometallic chemistry of the transition elements, with emphasis on 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.

### CHEM 3P32

#### Main Group Inorganic Chemistry

Continuation of CHEM 3P31 emphasizing the main group elements.

*Lectures, lab, 6 hours per week.*

Prerequisite: CHEM 3P31.

Completion of this course will replace previous assigned grade in CHEM 3P30.

### CHEM 3P40

#### Spectroscopic Techniques for Structure Elucidation

Use of instrumental methods for the determination of structures of molecules. Techniques will include mass spectroscopy, nuclear magnetic resonance spectroscopy, dispersive and Fourier transform infrared spectroscopy, visible and UV spectroscopy, computerized data manipulation. Molecular modelling software may be included for three-

dimensional visualization of complex molecules.

*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 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 3P63

#### Protein and Nucleic Acid Chemistry (also offered as BTEC 3P63)

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.

### CHEM 3P98

#### 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 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.

## CHEMISTRY

### 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 Thermodynamic 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 oxigenases.

*Lectures, seminar, 3 hours per week.*

Prerequisites: CHEM 2P21, BCHM 3P01 and 3P02.

### 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 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 1F30

**Science and Society**

For non-science majors, basic questions and problems in understanding the nature of science and technology and their impact on contemporary society. Some questions addressed: how are scientific theories formulated? What is pollution? What is the relation of science to ethics and public policy? *Lectures, 3 hours per week; seminar, 1 hour, alternate weeks.*

Note: co-ordinated through the Department of Chemistry.

## 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, resume 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*  
John Hay

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## General Information

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*Administrative Assistant*  
Joanne Falovo

905-688-5550, extension 4228  
Academic South 329  
<http://www.brocku.ca/communhealthscil>

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.

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## Program Notes

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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. At least one credit each year must be taken outside the Department of Community Health Sciences.
3. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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## Honours Program (only)

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### Year 1

- CHSC 1F90
- CHYS 1F90
- one Humanities context credit (one of ENGL 1F91, 1F95, 1F97 recommended)
- one Science context credit (BIOL 1F90 recommended)
- MATH 1P98
- one-half elective credit

### Year 2

- CHSC 2P07, 2P09, 2P21, 2P50 and 2P91
- CHYS 2F10, 2P35 and 2P38
- one-half elective credit

### Year 3

- CHSC 3P50 and 3P80
- CHSC 3Q07
- one and one-half credits from CHSC 2P27, 2P49, 2P60, 2P97, CHYS 3P20, 3P35, 3P38, 3P83, PSYC 3P23
- SOCI 3P83
- one and one-half elective credits

### Year 4

- CHSC 3P33 and 4P80
- one and one-half credits from CHSC 4F90, 4P59, 4P60, 4P99
- one credit from CHYS 2P60, 2P97, 3P44, 3P94
- one and one-half elective credits (see program note 3)

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## Description of Courses

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See relevant calendar entry for course descriptions.

## Child and Youth Studies

### Chair

Dorothy Griffiths  
Frances Owen (as of July 1, 2005) ✓

### Professors

Mohammed Dore, Maurice Feldman,  
Dorothy Griffiths, Zopito Marini, Teena  
Willoughby

### Associate Professors

Thomas O'Neill, Frances Owen, Terrance J.  
Wade

### Assistant Professors

Heather Chalmers, Jan Frijters, Voula  
Marinos, John McNamara, Rebecca Raby,  
Hans Skott-Myhre, Christine Tardif, Donato  
Tarulli, Tricia Vause

### Lecturer

Richard Mitchell

### Adjunct Professors

Dawn Zinga

### Co-ordinator

Alison Lahn

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### General Information

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#### Administrative Assistant

Carol Penner

905-688-5550, extension 3740

South Block 455

<http://www.brocku.ca/childand youthstudies/>

The Department of Child and Youth Studies 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 (Pass) degree/BED 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.

Applicants to the Child and Youth Studies program must have a minimum 75 percent overall average across six Grade 12 U, 12 M courses or OACs; Grade 12 U or OAC English is required; one Grade 12 U or OAC mathematics is strongly recommended (Mathematics of Data Management preferred.)

Students must apply to a common first year. Following successful completion of year 1, students may continue to one of two programs in Child and Youth Studies: the Honours or the Pass BA; or apply on a competitive basis to the concurrent Child and Youth Studies BA (Pass)/BED program. These are limited enrolment programs and applicants must have the approval of the Chair of Child and Youth Studies. Admission is not guaranteed by attainment of the minimum requirements.

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, 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 and BA(Pass)/BED programs are available in the Child and Youth Studies Office from April 1. The forms must be completed and returned to the office by June 1. New applications to the Child and Youth Studies Honours and Pass BA programs are accepted in years 2 and 3. Applicants for Honours Child and Youth Studies year 4 must submit a Child and Youth Studies departmental application form to the Child and Youth Studies office before May 1, in addition to the University honours application form. Students must apply to complete either a thesis, project or course work option for an Honours degree. Late applications will not be accepted.

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 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. If Early Childhood Education graduates from Niagara, Lambton and Mohawk Colleges are subsequently admitted to the Child and Youth Studies BA(Pass)/BED program in year 2, they may receive up to one and one-half additional transfer credits. All applicants must take CHYS 1F90. It is recommended that Child and Youth Studies majors seek academic advice from the Co-ordinator. See the Child and Youth Studies Student Handbook (<http://www.brocku.ca/childand youthstudies/handbook.pdf>) for more information.

### 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(Pass)/BED (Primary/Junior)

The Department of Child and Youth Studies and the Faculty of Education co-operate in offering a Concurrent BA (Pass)/BED program. The Child and Youth Studies BA (Pass)/BED program combines the BA Pass program with the teacher education program for students interested in teaching Primary/Junior (grades K-6). Refer to the Education - Concurrent BA (Pass)/BED Child and Youth Studies Program listing for additional information.

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### Program Notes

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1. 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.

## CHILD AND YOUTH STUDIES

2. Combined CHYS/SOCI majors who change to a single CHYS major will be required to take MATH 1F92 or PSYC 2F23.

3. Admission to year 4 (Honours) is by application through the Department and requires a minimum 70 percent major average and a minimum 75 percent overall average in CHYS 3P10 and 3P15.

4. Applicants to the individual thesis option are required to submit a detailed (one page minimum) letter of intent.

5. SOCI 4F90 is restricted to students with a minimum major average of 80 percent.

6. SOCI 4F91 is restricted to students with a minimum major average of 75 percent.

7. Admission to Year 4 (Honours) is by application through the Department and requires a minimum 75 percent major average and a minimum 70 percent overall average. Students wishing to take PSYC 4F90 must take PSYC 3P39 and one of PSYC 3F40 or PSYC 3P30. Students wishing to take PSYC 4P91 must take PSYC 3P39 and PSYC 3F40.

8. CHYS and CHYS BA(Pass)/BEd (Primary/Junior) majors cannot take PSYC 2F12, 3P18 or 3P93 in fulfillment of their degree requirements.

9. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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### Honours Program

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#### Year 1

- CHYS 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or Science context credit
- one elective credit

#### Year 2

- CHYS 2F10, 2P35 and 2P38
- MATH 1F92 or PSYC 2F23
- 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, 3P21, 3P26, 3P35, 3P43, 3P47, 3P48, 3P60
- one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 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 3)
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one of CHYS 4P01, 4P16, 4P35, 4P38, 4P48, 4P65
- two elective credits

#### Group Thesis option:

- CHYS 4F97 and 4P98 (see program note 3)
- one CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one of CHYS 4P01, 4P16, 4P35, 4P38, 4P48, 4P65
- two elective credits

#### Course Work option:

- Three CHYS credits numbered 3(alpha)90 to 4(alpha)99
- two elective credits

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### Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Combined Major Program

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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 Language Studies entry for a listing of program requirements.

## Child and Youth Studies and Psychology

### Honours

#### Year 1

- CHYS 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or Science context credit
- one elective credit

#### Year 2

- CHYS 2F10, 2P35 and 2P38
- PSYC 2F23
- one of PSYC 2F20, 2F25, 2F30, 2F36, 2F45, 2F50
- the Humanities context credit or Science context credit not taken in year 1

#### Year 3

- CHYS 3P10, 3P15 and PSYC 3P39
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P21, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P43, 3P44, 3P47, 3P48, 3P60
- two PSYC credits numbered 3(alpha)00 to 3(alpha)99, including either PSYC 3F40 or 3P30 (see program note 7)
- one elective credit

#### Year 4

- One of CHYS 4F97, 4F99, PSYC 4F90, 4F91 (see program notes 3 and 7)
- CHYS 4P98
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one of CHYS 4P01, 4P16, 4P35, 4P38, 4P48, 4P65
- PSYC 4P92
- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99
- one-half elective credit

### Pass

Satisfactory completion of the first three years of the combined Honours program entitles a student to apply for a combined Pass degree (students may substitute one PSYC credit numbered 2(alpha)90 or above for PSYC 3P30 and 3P39).



## 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

## Year 2

- CHYS 2F10, 2P35 and 2P38
- SOC 2P11 and 2P13 (see program note 2)
- one SOC credit numbered 2(alpha)00 or above
- the Humanities context credit or Science context credit not taken in year 1

## Year 3

- CHYS 3P10 and 3P15
- SOC 3P00 and 3P01
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P21, 3P23, 3P26, 3P27, 3P28, 3P30, 3P31, 3P32, 3P35, 3P38, 3P39, 3P43, 3P44, 3P47, 3P48, 3P60
- one SOC credit numbered 2(alpha)90 or above
- one elective credit

## Year 4

Students may select one of three options:

## CHYS Project option:

- CHYS 4F97, 4P38 and 4P98 (see program note 3)
- 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 6)
- one SOC credit numbered 3(alpha)90 or above
- one-half elective credit

## CHYS Thesis option:

- CHYS 4F99 and 4P98 (see program note 3)
- SOC 4P38
- one-half CHYS credit numbered 3(alpha)90 to 4(alpha)99
- one and one-half SOC credits numbered 3(alpha)90 or above
- one elective credit

## SOC Thesis option:

- CHYS 4P38
- one and one-half CHYS credits numbered 3(alpha)90 to 4(alpha)99
- SOC 4F90 and 4F01
- one elective credit

## Pass

Satisfactory completion of the first three years of the combined Honours program entitles a student to apply for a combined 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.

## 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 BA(Pass)/BEd (Primary/Junior), CHYS, CHLH, BA(Honours)/BEd (Intermediate/Senior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior) and BSc Integrated Studies (Honours)/BEd (Intermediate/Senior) until date specified in Registration guide.

## # CHYS 2F01

## School Learning

(also offered as EDUC 2F01)

Psychological processes involved in learning in a school setting. Cognitive theories of learning applied to examples in each of the major school subject areas with emphasis on the specific nature of the learning associated with each subject. Topics may include individual differences and problems in evaluating school learning.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CHYS 1F90 or PSYC 1F90.

Note: CHYS BA(Pass)/BEd (Primary/Junior) and BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) students must have a minimum of 10.0 overall credits.

## 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), BA(Honours)/BEd (Intermediate/Senior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior), BSc/BEd Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc/BEd Integrated Studies (Pass)/BEd (Junior/Intermediate), CHLH, LING (single or combined), CHSC, HLSC majors with a minimum of 5.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 10.0 overall credits until date specified in Registration guide.

Prerequisites: CHYS 1F90; CHSC 1F90 or PSYC 1F90 or permission of the instructor.

Note: students may not concurrently register in PSYC 2F12. A half-day placement per week is required for all students. All other students may complete a school or non-school placement. 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 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

## CHILD AND YOUTH STUDIES

placements require Identification Cards issued by Ontario Education Services Corporation (OESC) based on a satisfactory police record check. Application packages for OESC are available from the Concurrent Education Office. 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 is required. This course is designed to promote the bridging of disciplines. Completion of this course will replace previous assigned grade in PSYC 2F12.

### CHYS 2F90

#### Young Offenders

Scope, nature and outcomes of youthful offending from a multidisciplinary perspective. Restriction: open to CHYS BA(Pass)/BEEd (Primary/Junior), CHYS (single or combined) and CHLH majors until date specified in Registration guide.

Prerequisite: CHYS 1F90, PSYC 1F90 or SOCI 1F90.

### 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 BA(Pass)/BEEd (Primary/Junior), CHYS (single or combined), CHLH majors and CODC Certificate students until date specified in Registration guide.

Prerequisites: CHYS 1F90; CHSC 1F90 or PSYC 1F90.

Co-requisite: CHYS 2F10 or PSYC 2F12.

### \* 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 BA(Pass)/BEEd (Primary/Junior), CHYS (single or combined) and CHLH majors until date specified in Registration guide.

Prerequisites: CHYS 1F90; CHSC 1F90 or SOCI 1F90.

### # CHYS 2P93

#### Rhythmic Activities for Children

(also offered as PEKN 2P93)

Elements of rhythm development of rhythmic abilities; role of rhythm in motor skill acquisition performance; practical experiences with small apparatus; methods of music education and curriculum planning.

*Lectures, lab, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BEEd (Primary/Junior), CHYS (single or combined), BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc(Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: one of PEKN 1P90, CHYS 1F90, PSYC 1F90.

### CHYS 2P94

#### Physical Activity for Preschoolers

(also offered as PEKN 2P94)

Movement experiences for pre-schoolers in dance, games and gymnastics. Topics include the impact of physical activity on the developing child, pre-schooler's characteristics and needs, motor development principles and planning age-appropriate movement activities.

*Lectures, lab, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BEEd (Primary/Junior), CHYS (single or combined), BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc(Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: one of CHYS 1F90, PSYC 1F90, PEKN 1P93.

### # 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 BA(Pass)/BEEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 14.0 overall credits.

Prerequisite: one of CHYS 3P20, 3P26, 3P35, 3P43, 3P48.

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 are borne by the student.

Completion of this course will replace previous assigned grade in CHYS 3P96.

### CHYS 3P09

#### Developmental Psychopathology and Culture

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 BA(Pass)/BEEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

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 BA(Pass)/BEEd (Primary/Junior) and CHYS (single or combined) majors.

Prerequisite: one of MATH 1F92, PSYC 2F23, SOCI 2P11 and 2P13 (2F10) (for CHYS/SOCI combined majors).

### \*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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined) 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: CHYS 2F10 or PSYC 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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors.

Prerequisite: 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), CHLH majors and CODC Certificate students until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P35.

#### 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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors. Students must have 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), CHLH 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: CHYS 2F10 or PSYC 2F12.  
Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

#### 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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) 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 CHYS 3P77 (3Q94).

Completion of this course will replace previous assigned grade in CHYS (PSYC) 3P77 or 3Q94.

#### 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), CHLH and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10 or PSYC 2F12.

Completion of this course will replace previous assigned grade in CHYS 3P90.

#### 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined) and CHLH majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P38.

Completion of this course will replace previous assigned grade in CHYS 3P97.

#### 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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P38.

Completion of this course will replace previous assigned grade in CHYS 3P98.

## CHILD AND YOUTH STUDIES

### 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), CHSC and CHLH majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 1F90.

### 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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), CHLH majors and CODC Certificate students until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P35.

### 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined) and CHLH majors until date specified in Registration guide.

Prerequisite: CHYS 2P38.

Completion of this course will replace previous assigned grade in SOCI (WISE) 2F21 and 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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P38.

### 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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined), CHLH majors and CODC Certificate students until date specified in the Registration guide.

Prerequisite: CHYS 2P35.

Completion of this course will replace previous assigned grade in CHYS 3P93.

### \* 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 BA(Pass)/BEd

(Primary/Junior) and CHYS (single or combined) majors, SOCI and WISE (single or combined) majors or minors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one of CHYS 2P38, SOCI 2P11 and 2P13, WISE 2P90, 2P91.

Completion of this course will replace previous assigned grade in CHYS 3P92.

### CHYS 3P47

#### **Foundations of Behaviour Analysis and Therapy**

Basic learning principles and concepts focussing on research, education, clinical practice and everyday life.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BEd (Primary/Junior), CHYS (single or combined) majors and CODC Certificate students until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P35 or PSYC 2F23.

Note: not open to students who have completed PSYC 2F45 and students may not concurrently register in PSYC 2F45.

### CHYS 3P48

#### **Applications of Behaviour Analysis and Therapy**

Diverse habilitative and rehabilitative work with children, youth and families focussing on research, education, clinical practice and everyday life.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 3P47 or PSYC 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.*

Prerequisite: CHYS 2F10.

Note: CHYS BA(Pass)/BEd (Primary/Junior) students must have a minimum of 10.0 overall credits.

## # CHYS 3P52

**Focus on 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.*

Prerequisite: CHYS 3P50.

Note: enrolment limited to 25 students to be determined by academic standing. Students will be involved in a field placement working with young children in a community setting.

## CHYS 3P60

**Autism**

Nature, epidemiology, assessment, treatment and research of Autism and the other Autistic Spectrum Disorders focussing on research, educational and clinical practice.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BED (Primary/Junior), CHYS (single or combined) majors and CODC Certificate students until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P35.

## # 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 1F91, PSYC 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHYS (LING/PSYC) 2P98.

## CHYS 3P65

**Thinking and Development**

Theoretical and applied issues in the development of thinking abilities including how this is expressed in the development of motor control.

*Lectures, seminar/lab, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BED (Primary/Junior) and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10.

## \* 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 BA(Pass)/BED (Primary/Junior), CHYS (single or combined) 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: one of MATH 1F92, PSYC 2F23, SOCI 2P11 and 2P13 (for CHYS/SOCI combined majors; may be taken concurrently), 1.0 MATH or COSC credit.

Note: this is not a computer programming course.

## # CHYS 3P77

**Topics in 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 BA(Pass)/BED (Primary/Junior), CHYS (single or combined) 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: CHYS 2F10, PSYC 2F12 or permission of the instructor.

Note: students may not concurrently register in CHYS 3P24.

Completion of this course will replace previous assigned grade in CHYS 3P24 and CHYS (PSYC) 3Q94.

## # CHYS 3P80

**The Health of Children**

(also offered as CHSC 3P80)

Biological, psychological and sociological determinants of health during childhood. A wellness perspective will be emphasized.

*Lectures, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BED (Primary/Junior), CHYS (single or combined), BMED, CHLH, CHSC and HLSC 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 BA(Pass)/BED (Primary/Junior) and CHYS (single or combined) and SOCI (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHSC 1F90, SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

## CHYS 3P91

**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. Focus on early identification and intervention.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BED (Primary/Junior), CHYS (single or combined) and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 14.0 overall credits.

Prerequisite: CHYS 2F10 or PSYC 2F12.

## CHYS 3P94

**Childhood, Youth and Equity Issues**

Research on contemporary children and youth focussing 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 BA(Pass)/BED (Primary/Junior), CHYS (single or combined) and CHLH majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P38.

## 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.

## CHILD AND YOUTH STUDIES

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS (single or combined) majors with a minimum of 8.0 overall credits.

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 BA(Pass)/BEd (Primary/Junior), CHYS (single or combined) and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10, PSYC 2F12 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHYS 3Q93.

### CHYS 3Q90

#### **Directed Studies I**

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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors. Students must have 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 3Q91

#### **Directed Studies II**

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 BA(Pass)/BEd (Primary/Junior) and CHYS (single or combined) majors. Students must have 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 3V92-3V93

#### **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) majors with a minimum of 8.0 overall credits.

### # CHYS 4F31

#### **Treatment Approaches for Children and Adolescents**

(also offered as PSYC 4F31)

Theoretical background, research and evaluation of current therapeutic approaches. Disorders including conduct disorders, emotional distress, anxiety states, autism, family dysfunction; dynamic therapies therapeutic play, Gestalt approaches, counseling techniques and expressive work; behavioural theory and techniques, including social skills training, cognitive work and relaxation.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS (single or combined) and PSYC (single or combined) majors with a minimum of 13.5 overall credits.

Prerequisite: CHYS 2F10 or PSYC 2F12.

Note: students will participate in a weekly practicum placement.

Completion of this course will replace previously assigned grades in CHYS (PSYC) 4P31 and 4P32.

### 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) majors with a minimum of 14.0 overall credits and 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 and approval to year 4 (honours)

and permission of the Chair.

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 intent.

### CHYS 4P01

#### **Development of Self and Identity**

Multidisciplinary exploration of the development of self and identity in childhood and adolescence, focussing 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) 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) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P27, 3P28, 3P38, 3P39, 3P44.

### 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 co-ordinated service delivery systems.

*Seminar, 3 hours per week.*

Restriction: open to CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: CHYS 2F10.

### CHYS 4P05

#### **Multiculturalism, Race, and Racism**

Historical and current construction and effects of race and ethnicity in the lives of children and youth in Canada and globally.

*Seminar, 3 hours per week.*

Restriction: open to CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year four (honours).

Prerequisite: one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P44.

#### 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) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P44.

#### 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) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: CHYS 2F10.

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) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P20, 3P26 (3P90), 3P35, 3P94 (3P96).

#### \* 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) and SOCI (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P23, 3P38 (2P91), 3P44 (3P92), 3P77 (3Q94), 3P91, 3Q33 (3Q93).

#### 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) 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 PSYC (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33, PSYC 3P18.

#### CHYS 4P48

##### **Advanced Topics in Applied Behaviour Analysis**

Current research applications focussing on research, educational and clinical practice.

*Seminar, 3 hours per week.*

Restriction: open to CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: CHYS 3P48.

#### # CHYS 4P56

##### **Maturation and Development**

(also offered as PSYC 4P56)

Influences of brain physiology and maturation on psychological development and vice versa; the role of heredity in understanding human development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA(Pass)/BED (Primary/Junior), CHYS (single or combined), 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 2F12, 2F36.

Completion of this course will replace previous assigned grade in PSYC 3P56.

#### CHYS 4P65

##### **Issues in Thinking and Development**

Contemporary issues in learning and development. Topics may include memory, cognitive approach to motor development and social cognition.

*Lectures, seminar/lab, 3 hours per week.*

Restriction: open to CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P11, 3P25, 3P65.

#### 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 and approval to year 4 (honours).

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.

Completion of this course will replace previous assigned grade in CHYS 4P99.

#### CHYS 4V00-4V10

##### **Advanced Special Topics**

# Classics

## Chair

Carol U. Merriam

## Undergraduate Academic Adviser

Roberto Nickel

## Professors Emeriti

Noel Robertson, David W. Rupp

## Associate Professors

Michael J. Carter, Carol U. Merriam,  
Richard W. Parker, Danielle A. Parks

## Assistant Professors

Allison M.J. Glazebrook, Roberto Nickel, R.  
Angus Smith

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## General Information

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### Administrative Assistant

TBA

905-688-5550, extension 3575

Mackenzie Chown A207

<http://www.brocku.ca/classics/>

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 Archaeological Institute in Athens.

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 of Rome are offered jointly by Classics, Visual Arts and other departments.

The brochure Classics at Brock contains additional information about the Classics Department and its programs. Students are encouraged to consult the Chair 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.

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## Language Requirement for Humanities Majors

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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 fulfil this requirement.

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## Program Notes

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1. A maximum of one credit in field work may be counted.
2. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

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## Honours Program

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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 knowledge 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 their Departmental adviser 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
- GREE 2P01 and 2P02
- LATI 2P01 and 2P02
- two CLAS, GREE or LATI credits (see program note 2)
- six GREE or LATI credits (see program note 2)
- one Science context credit
- one Social Science 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
- six credits from CLAS 2P27, 2P30, 2P32, 2P36, 2P38, 2P48, 3M20-3M29, 3P22, 3P23, 3P24, 3P25, 3P26, 3P75 (or 4F75), 4P13, 4P14, 4V20-4V29, 4V30-4V39 (see program notes 1 and 2)
- two CLAS, GREE or LATI credits (see program note 2)
- four GREE or LATI credits (see program note 2)
- one Science context credit
- one Social Science context credit
- four elective credits

### Classical Studies stream

Twelve credits labelled CLAS, GREE or LATI are required for an Honours degree:

- CLAS 3P07, 3P08, 3P09 and 3P10
- six CLAS, GREE or LATI credits (see program note 2)
- four GREE or LATI credits (see program note 2)
- one Science context credit



- one Social Science context credit
- six elective credits

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### Pass Program

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Students seeking a Pass degree have a choice of two streams in Classics.

1. Classical Languages emphasizes proficiency in the Greek and Latin languages and knowledge of Greek and Roman literature.

2. Classical Studies combines the study of Greek and Roman history, religion, literature-in-translation, art and archaeology. Pass majors should consult with the Undergraduate Academic Adviser to arrange a suitable program.

#### Classical Languages stream

Eight credits labelled CLAS, GREE or LATI are required for a Pass degree:

- one credit from CLAS 3P07, 3P08, 3P09, 3P10
- two CLAS, GREE or LATI credits (see program note 2)
- five GREE or LATI credits (see program note 2)
- one Science context credit
- one Social Science context credit
- five elective credits

#### 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 Science context credit
- one Social Science context credit
- five elective credits

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### Combined Major Program

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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.

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### Minor in Classics

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Students in other disciplines can obtain a Minor in Classical Studies 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 3F01, 3F02, CLAS 3P05 and 3P06
- one credit from CLAS 3P07, 3P08, 3P09, 3P10
- one credit from CLAS 2P40, 2P50, 2P61, 3F01, 3F02, 3P05, 3P06, GREE courses numbered 2(*alpha*)00 to 3(*alpha*)99, LATI courses numbered 2(*alpha*)00 to 3(*alpha*)99
- one of GREE 1P01 and 1P02, LATI 1P01 and 1P02, LATI 2P01 and 2P02

Students in other disciplines can obtain a Minor in Classical Archaeology 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
- CLAS 2P30 and 2P32
- one credit from CLAS 3P07, 3P08, 3P09, 3P10
- one credit from CLAS 2P36, 2P38, 2P48, 3P22, 3P23, 3P24, 3P25, 3P75
- one of GREE 1P01 and 1P02, LATI 1P01 and 1P02, LATI 2P01 and 2P02

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### Description of Courses

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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

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### Prerequisites and Restrictions

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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, the Bronze and Iron Ages, the Celts and Romans and the first Germanic kingdoms. Beliefs and practices, artistic style and architecture. Slides 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

## CLASSICS

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 2P27

#### **Ancient Civilizations of Egypt and the Near East**

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 2P30

#### **Origins of Human Culture**

Growth and development of human society from the prehistoric beginnings through the complex societies of the ancient Near East and India.

*Lectures, seminar, 3 hours per week.*

### CLAS 2P32

#### **Field Archaeology**

Introduction to basic archaeological theory, field techniques and procedures; the study of archaeological materials.

*Lectures, seminar, 3 hours per week.*

### CLAS 2P36

#### **Greek Archaeology**

Archaeology and material culture of the ancient Greek world from the Upper Paleolithic period to the end of the Hellenistic period.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P30, 2P32.

### CLAS 2P38

#### **Roman Archaeology**

Archaeology and material culture of the Italian peninsula and Roman Empire from the 12th century BC through the 4th century AD.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97, 2P30, 2P32.

### 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 2P48

#### **Greek Sanctuaries**

Historical development of Greek sanctuaries. Rural shrines in different regions; civic shrines in different city-states; ethnic and Panhellenic shrines. Healing and other needs; patterns of civic worship; the rise and fall of Delphi and Olympia emphasizing interplay between tradition and changing needs and values.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P95, 1P97.

### CLAS 2P50

#### **Great Myths in Literature and Art**

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.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97.

### \* 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 focussing 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 GBL 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.

Note: open to students who lack the prerequisite but have taken one credit in ENGL or GBL.

Completion of this course will replace previous assigned grade in CLAS 3P00.

### \* 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, DART 1F93.

Completion of this course will replace previous assigned grade in CLAS 3P02.

### \* 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.

Completion of this course will replace previous assigned grade in CLAS (VISA) 4M00-4M09.

### \* CLAS 3M21

#### **2005-2006: Monumental Rome from Romulus to the Renaissance**

(also offered as ITAL 3M21 and VISA 3M21) Rome as a city of monuments, from its founding to the Renaissance. The Roman and imperial fora, baths, Colosseum, medieval and Renaissance churches and palaces, including St. Peter's and the Vatican, emphasizing sites as monuments and relics, and for their social function.

Restriction: permission of the Department.

Note: offered in Italy: 4 weeks. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned credit in CLAS 4M01.

## CLAS 3P05

**Masterworks and Major Genres of Greek Literature**

Critical study of selected works from the Archaic through the Roman period with emphasis on poetry and drama, literary history and the conventions of major genres. Genres include epic, tragedy, comedy, satyr drama, lyric, pastoral, novel and satire.

*Lectures, seminar, 3 hours per week.*

Restriction: open to students with a minimum of 4.0 overall credits.

## CLAS 3P06

**Masterworks and Major Genres of Latin Literature**

Critical study of selected works from both the Republican and Imperial eras with emphasis on poetry and drama, literary history and the conventions of major genres. Genres include epic, tragedy, comedy, lyric, elegy, pastoral, novel and satire.

*Lectures, seminar, 3 hours per week.*

Restriction: open to students with a minimum of 4.0 overall credits.

## CLAS 3P07

**History of Early Greece**

Social and political history of the Greek world from the Bronze Age to 450 BC: Minoans and Mycenaeans, Dark Age, colonizing period, tyrants, rise of Sparta, Persian wars, and Athenian Empire. Readings from Greek historians and documents in translation.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in CLAS 2P91.

## 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, seminar, 3 hours per week.*

Prerequisite: CLAS 3P07 (2P91) or permission of the instructor.

Completion of this course will replace previous assigned grade in CLAS 2P92.

## CLAS 3P09

**History of the Roman Republic**

History of Rome to the Battle of Actium (31 BC) emphasizing social and political developments from the Gracchi to Julius Caesar.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in CLAS 2P98.

## 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, seminar, 3 hours per week.*

Prerequisite: CLAS 3P09 (2P98) or permission of the instructor.

Completion of this course will replace previous assigned grade in CLAS 2P99.

## \* 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, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97 or VISA 1F98 (1F90).

## \* 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, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97 or VISA 1F98 (1F90).

## \* CLAS 3P24

**Art and Architecture of Early Greece**

(also offered as VISA 3P24)

Greek art and architecture from the Bronze age through the end of the Archaic period within the framework of historical and cultural change.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97 or VISA 1F98 (1F90).

## \* 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, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97 or VISA 1F98 (1F90).

## \* CLAS 3P26

**Art and Architecture of the Byzantine Empire**

(also offered as VISA 3P26)

Material culture of the Byzantine Empire from its origins in late antiquity to the Ottoman conquest. Monumental mosaic, painting, sculpture, the luxury arts and domestic artifacts within the architectural framework of house, church and city.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 1P92, 2P36, 2P38, 3P10 (2P99) or VISA 1F98 (1F90).

## \* CLAS 3P61

**Gender and Society in Ancient Greece**

(also offered as WISE 3P61)

Gender as an organizing principle in Archaic and Classical Greece. Emphasis on ancient constructions of femininity and masculinity and their relationship to the social, political and legal systems of Greece. Special topics include the body, sexuality, male and female identities.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of CLAS 1P91, 2P61, WISE 1F90.

Completion of this course will replace previous assigned grade in CLAS (WISE) 2P62.

## CLAS 3P75

**Archaeological Field Work**

Topics may include excavation, surveys, lectures, demonstrations and study tours of sites, monuments and museums.

Restriction: open to students with a minimum of 4.0 overall credits and permission of the Department.

Prerequisite: CLAS 2P30 and 2P32 or permission of the instructor.

Note: students are expected to pay their own expenses.

## CLAS 4F75

**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 Department.

Prerequisite: CLAS 2P30, 2P32 and 4P13 or permission of the instructor.

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Note: practica run daily for six weeks during the summer and are conducted with the assistance of local authorities.

Students are expected to pay their own expenses.

### 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 4P13

**The Art and Archaeology of Cyprus**

(also offered as VISA 4P13)

Cultural history of Cyprus from the Neolithic period through the early Byzantine period, based on the archaeo-logical record. Role of Cyprus in the civilization of the eastern Mediterranean.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one CLAS credit numbered 2(alpha)90 or above, VISA 1F98 (1F90) or permission of the Department.

### \* CLAS 4P14

**Aegean Bronze Age**

(also offered as VISA 4P14)

Development of the Bronze Age cultures of the Aegean basin from 3000 to 1100 BC emphasizing art and architecture of the Minoans on Crete and the Mycenaeans on the Greek mainland.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one CLAS credit numbered 2(alpha)90 or above, VISA 1F98 (1F90) or permission of the Department.

### CLAS 4V20-4V29

**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.*

Prerequisites: CLAS 2P30, 2P32 and one CLAS credit numbered 2(alpha)90 or above or permission of the Department.

### \* CLAS 4V30-4V39

**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 or VISA 1F98 (1F90) or permission of the Department.

### CLAS 4V35

**2005-2006: Classical Mosaic**

Development of classical mosaic from its origins in the eighth-century B.C. into the late Roman period. Questions of technique and workshop organization, iconographic issues.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one credit from CLAS 3P22, 3P23, 3P24, 3P25 or VISA 1F98 (1F90) 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 4V51

**2005-2006: Democracy in Ancient Greece**

Origins and development of democracy in ancient Athens, including democratic institutions and attitudes towards democracy.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one CLAS credit numbered 2(alpha)90 or above or permission of the Department.

### 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 1P01

**Language (Introductory) I**

Fundamentals of Greek. Selections from various Greek authors. Lectures, seminar, 4 hours per week.

### GREE 1P02

**Language (Introductory) II**

Fundamentals of Greek. Selections from

various Greek authors. Lectures, seminar, 4 hours per week.

Prerequisite: GREE 1P01.

### GREE 2P01

**Language and Literature I**

Review of grammar. Intermediate selections from Greek authors.

*Lectures, seminar, 4 hours per week.*

Prerequisite: GREE 1P02 or permission of the Department.

### GREE 2P02

**Language and Literature II**

Further intermediate selections from Greek authors. Greek prose composition.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GREE 2P01 or permission of the Department.

### 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 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 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 2P02 or permission of the instructor.

### GREE 3V91

**2005-2006: Sophocles, *Antigone* and *Aias***

*Lectures, seminar, 3 hours per week.*

Prerequisite: GREE 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 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 2P02 or permission of the instructor.

GREE 4V53

2005-2006: **Aristophanes: *Peace***

*Lectures, seminar, 3 hours per week.*

Prerequisite: GREE 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 2P02 or permission of the instructor.

GREE 4V90-4V99

**Advanced Readings and Directed Research**  
Studies in Greek 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.

**LATIN**

LATI 1P01

**Language (Introductory) I**

Fundamentals of Latin. Selections from various Latin authors.

*Lectures, seminar, 4 hours per week.*

Note: students who have studied Latin before coming to university should identify themselves to the Department; such students might be eligible to enrol in LATI 2P01.

LATI 1P02

**Language (Introductory) II**

Fundamentals of Latin. Selections from various Latin authors.

*Lectures, seminar, 4 hours per week.*

Prerequisite: LATI 1P01 or OAC Latin.

LATI 2P01

**Language and Literature I**

Review of grammar. Intermediate selections from Latin authors.

*Lectures, seminar, 4 hours per week.*

Prerequisite: LATI 1P02 or OAC Latin or permission of the Department.

LATI 2P02

**Language and Literature II**

Further intermediate selections from Latin authors. Latin prose composition.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LATI 2P01 or permission of the Department.

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 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 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 2P02 or permission of the instructor.

LATI 3V94

2005-2006: **Horace: *Odes***

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 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 2P02 or permission of the instructor.

LATI 4V14

2005-2006: **Livy, *Ab Urbe Condita VI***

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 2P02 or permission of the instructor.

LATI 4V23

2005-2006: **Horace: *Satires***

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.

# Communications, Popular Culture and Film

## Chair

Marian Bredin

## Undergraduate Program Adviser

Russell Johnston

Jeanette Sloniowski (as of July 1, 2005) ✓

## Professors

Barry K. Grant, Jim Leach

## Associate Professors

Nicolas Baxter-Moore, Barry W. K. Joe, Russell Johnston, Jeanette Sloniowski, Bohdan Szuchewycz

## Assistant Professors

Dale A. Bradley, Marian Bredin, Jennifer Good, Sarah A. Matheson, Christie Milliken

## Lecturers

M. Sharon Broderick, Scott Henderson

## Adjunct Faculty

Terrance Cox, Joan Nicks

## Director, Co-operative Programs

Cindy Dunne

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## General Information

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### Administrative Assistant

Bridget Cahill

905-688-5550, extension 4290

Scotia Bank Hall 308

<http://www.brocku.ca/cpcf>

The Department of Communications, Popular Culture and Film offers three separate programs of study. 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, four-year Co-op programs leading to a BA Honours degree in Communications Studies or Popular Culture and a four and one-half year program leading to a BA Honours degree in Film Studies are available.

## Communications Studies

Communications 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, each of which offers a Co-op option; the streams share a core of COMM courses but focus on distinct areas of interest.

The Business Communications stream combines the study of communications with a study of some aspects of business. The stream aims to equip the student with a sound theoretical basis for analysing and practising communications 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 communications theory. Students also have opportunities to explore these topics and theories in applied settings.

The Media, Culture and Society stream focusses 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 Undergraduate Program Adviser. Communication Studies is a limited enrolment program. Students must apply to proceed to year 2 of the Honours and Pass programs. A minimum 70 percent average in required courses will normally ensure that the student may proceed. Others will be allowed to proceed on the basis of their grade standing and available places in the streams.

All of the above streams have the option of a related Co-op stream available for interested and qualified students. Each Co-op stream combines academic and work terms over a four-year period.

*Please consult the Communications 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 have opportunities to engage in film and video production in upper year courses, in class assignments and as part of the student Spring Festival.

The Film Studies program also offers a Co-op stream available for interested and qualified students. The Co-op stream combines academic and work terms over a four and one-half year period.

*Please consult the Film Studies entry for a listing of courses and program requirements.*

## Popular Culture

The study of Popular Culture focusses 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, radio and television, sport and the worldwide web.

The Popular Culture program also offers a Co-op stream available for interested and qualified students. The Co-op stream combines academic and work terms over a four-year period.

*Please consult the Popular Culture entry for a listing of courses and program requirements.*

# Communications Studies

*This program is offered through the Department of Communications, Popular Culture and Film*

## Chair

Marian Bredin

## Undergraduate Program Adviser

Russell Johnston

Jeanette Sloniowski (as of July 1, 2005)

## Director, Co-operative Programs

Cindy Dunne

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The Media, Culture and Society stream focusses 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.

All of the above streams have the option of a related Co-op stream. Each Co-op stream combines academic and work terms over a four-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, Communications Studies 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 Communications Studies 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 Communications Studies 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.

Brock Students may apply to Communication Studies. Entrance requires a minimum 65 percent standing in courses required for Communications Studies and departmental approval. Application forms are available in the department office from March 15, and must be completed and returned by May 15. Late applications will not be accepted.

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## Program Notes

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1. All Communications Studies majors must meet the requirements for one of the streams.
2. Students must apply to the department to proceed to years 2 and 3 of the program. Admission 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.
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 Communications stream must take their elective credits from outside the Faculty of Business.
5. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Business Communications stream

#### Year 1

- COMM 1F90
- FILM 1F94
- MGMT 1P51 and 1P52
- POLI 1F90
- one Science context credit

#### Year 2

- COMM 2F50, 2P15, 2P20 and 2P65
- one-half COMM credit
- MKTG 2P51 and 2P52
- one elective credit (see program note 4)

## COMMUNICATIONS STUDIES

### *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 COMM 4P55, ENTR, MGMT, MKTG, OBHR numbered 3(alpha)90 or above
- one elective credit

### Communications Policy stream

#### *Year 1*

- Year 1 is now closed

#### *Year 2*

- COMM 2F50, 2P15, 2P20, 2P21 and 2P26
- POLI 2F12
- one elective credit

#### *Year 3*

- COMM 2F98, 3P14, 3P15, 3P20 and 3P21
- one COMM credit
- one elective credit

#### *Year 4*

- One credit from COMM 3P93, 4P17, 4P32, 4P55
- two credits from COMM 3P93, 4F80, 4F99, 4P17, 4P23, 4P30, 4P31, 4P32, 4P50, 4P51, 4P55, 4V50-4V59
- one COMM credit numbered 3(alpha)90 or above
- one elective credit

### Digital Culture stream

#### *Year 1*

- COMM 1F90
- COSC 1P95 and 1P96
- FILM 1F94
- one Science context credit
- one Social Science context credit

#### *Year 2*

- COMM 2F50, 2P15, 2P20, 2P26 and 2P90
- one credit from COMM 2F95, 2P16, 2P18, 2P21, 2P51, 2P65
- one elective credit

### *Year 3*

- COMM 2P91, 3P14, 3P15, 3P18, 3P90 and 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 Science context credit
- one Social Science context credit

#### *Year 2*

- COMM 2F50, 2P15, 2P20 and 2P21
- one COMM credit or one of FILM 2F90, LING 1F94, PSYC 2F20, 2F30, VISA 1F98
- one and one-half elective credits

#### *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

### Communications Studies 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.

### Business Communications stream

#### *Year 1*

- COMM 1F90 and 2F50
- FILM 1F94
- MGMT 1P51 and 1P52
- POLI 1F90

### Spring/Summer Sessions:

- COMM 2P20
- one-half COMM credit
- one elective credit

### *Year 2*

- COMM 0N90, 2P15, 2P65, 3P14 and 3P18
- one-half COMM credit
- one-half COMM credit numbered 2(alpha)90 or above
- MKTG 2P51 and 2P52
- OBHR 2P51 and 2P52

### Spring/Summer Sessions:

- COMM 0N01

### *Year 3*

#### Fall Term:

- COMM 3P15
- one COMM credit numbered 3(alpha)90 or above
- one credit from COMM 4P55, ENTR, MGMT, MKTG, OBHR numbered 3(alpha)90 or above

#### Winter Term:

- COMM 0N02

### Spring/Summer Sessions:

- One Science context credit
- two elective credits

### *Year 4*

#### Fall Term:

- COMM 0N03

#### Winter Term:

- COMM 3P65
- one COMM credit numbered 3(alpha)90 or above
- one credit from COMM 4P55, ENTR, MGMT, MKTG, OBHR numbered 3(alpha)90 or above

### Communications Policy stream

#### *Year 1*

- Year 1 is now closed

### Spring/Summer Sessions:

- COMM 2P20 and 2P21
- one elective credit

### *Year 2*

- COMM 0N90, 2F98, 2P15, 2P26, 3P14, 3P15, 3P20 and 3P21
- one elective credit (MKTG 2P51 and 2P52 strongly recommended)



Spring/Summer Sessions:  
•COMM 0N01

*Year 3*  
Fall Term:  
•One of COMM 3P93, 4P17, 4P32, 4P55  
•one-half COMM credit  
•one and one-half COMM credits numbered 3(alpha)90 or above

Winter Term:  
•COMM 0N02

Spring/Summer Sessions:  
•One Science context credit  
•two elective credits

*Year 4*  
Fall Term:  
•COMM 0N03

Winter Term:  
•One of COMM 3P93, 4P17, 4P32, 4P55  
•one-half COMM credit  
•one and one-half COMM credits numbered 3(alpha)90 or above

**Digital Culture stream**

*Year 1*  
•COMM 1F90 and 2F50  
•COSC 1P95 and 1P96  
•FILM 1F94  
•one Science context credit

Spring/Summer Sessions:  
•COMM 2P20  
•one Social Science context credit  
•one-half elective credit

*Year 2*  
•COMM 0N90, 2P15, 2P26, 2P90, 2P91, 3P14, 3P15 and 3P18  
•one credit from COMM 2F95, 2P16, 2P18, 2P21, 2P51 and 2P65  
•one-half elective credit

Spring/Summer Sessions:  
•COMM 0N01

*Year 3*  
Fall Term:  
•COMM 3P92  
•one-half COMM credit numbered 2(alpha)90 or above  
•one-half COMM credit numbered 3(alpha)90 and above  
•one COMM credit numbered 4(alpha)00 and above

Winter Term:  
•COMM 0N02

Spring/Summer Sessions:  
•One COMM credit numbered 3(alpha)90 or above  
•two elective credits

*Year 4*  
Fall Term:  
•COMM 0N03

Winter Term:  
•COMM 3P90  
•one-half COMM credit numbered 2(alpha)90 or above  
•one-half COMM credit numbered 3(alpha)90 or above  
•one COMM credit numbered 4(alpha)00 or above

**Media, Culture and Society stream**

*Year 1*  
•COMM 1F90 and 2F50  
•ENGL 1F91 or 1F95  
•FILM 1F94  
•one Social Science context credit

Spring/Summer Sessions:  
•COMM 2P20 and 2P21  
•one elective credit (MGMT 1P51 and 1P52 strongly recommended)

*Year 2*  
•COMM 0N90, 2P15, 3P14, 3P15, 3P18, 3P20, 3P21  
•one-half COMM credit  
•one COMM credit or one of FILM 2F90, LING 1F94, PSYC 2F20, 2F30, VISA 1F98  
•one-half elective credit

Spring/Summer Sessions:  
•COMM 0N01

*Year 3*  
Fall Term:  
•One-half COMM credit numbered 2(alpha)90 or above  
•one COMM credit numbered 3(alpha)90 or above  
•one COMM credit numbered 4(alpha)00 or above

Winter Term:  
•COMM 0N02

Spring/Summer Term:  
•One Science context credit  
•two elective credits

*Year 4*  
Fall Term:  
•COMM 0N03

Winter Term:  
•One-half COMM credit numbered 2(alpha)90 or above  
•one COMM credit numbered 3(alpha)90 or above  
•one COMM credit numbered 4(alpha)00 or above

**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.

**Combined Major Program**

**Honours**

Year 1 is now closed  
•COMM 2F50, 2P15, 2P20, 2P21, 3P15, 3P20 and 3P21  
•one credit from COMM 4P17, 4P23, 4P30, 4P31, 4P50, 4P51, 4P55  
•two credits from COMM 2P90, 3P14, 3P17, 3P18, 3P65, 3P90, 3P92, 3P93, 4F80, 4F99, 4P17, 4P23, 4P30, 4P31, 4P32, 4P50, 4P51, 4P55

**Pass**

Year 1 is now closed  
•COMM 2F50, 2P20, 2P21, 3P14, 3P20 and 3P21  
•one of COMM 2P90, 3P17, 3P65, 3P93

**Minor in Professional Writing**

With the exception of students in the Co-op streams, it is possible for Communications majors to earn a Minor in Professional Writing. For details see the calendar entry for the Department of English Language and Literature.

## COMMUNICATIONS STUDIES

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### Description of Courses

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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

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### Prerequisites and Restrictions

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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 Communications

Approaches and issues in communications 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

##### Communications Theory

Systems theory, semiotic and cognitive approaches to message production and reception, symbolic interactionism and other constructivist approaches, interpersonal and group communication theories, communications analysis and theories of the mass media and their functions in society.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COMM (single or combined), PCUL (single or combined) 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)  
Archetypal and mythic dimensions of popular literary genres such as the detective novel,

Gothic fiction, science fiction, the romance novel; comparison and contrast with other media.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of COMM 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99, FILM 1F94 or permission of the instructor.

#### #COMM 2F95

##### Introduction to Digital Imaging

(also offered as VISA 2F95)

Basic concepts in two dimensional image creation and manipulation for print and the web. Systematic overview and project-based use of fundamental graphic software including Photoshop, Illustrator, Flash, PageMaker and Dreamweaver.

*Lectures, lab, 5 hours per week.*

Restriction: open to COMM (single or combined) and VISA (single or combined) majors until date specified in Registration guide.

Prerequisite: COMM 1F90, VISA 1P97 or permission of the instructor.

Note: enrolment limited to 15 students. Material fee required. Students may need additional materials that they must supply.

#### #COMM 2F98

##### Canadian Public Administration

(also offered as LABR 2F98 and POLI 2F98)

Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; pressure groups; human resources and budgetary processes; the policy process; ethics and accountability.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of COMM 1F90, LABR 1F90 (1P91 and 1P92), 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 in COMM (POLI) 3P50.

#### COMM 2M90-2M99

##### Special Studies in Communications

Topics selected on the basis of specific areas of instructional expertise and student interest.

#### #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)80 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in WRIT 2P15.

#### \*COMM 2P15

##### Communications Research Methods

(also offered as PCUL 2P15)

Introduction to qualitative and quantitative methods for communications and popular culture research.

*Lectures, lab, 3 hours per week.*

Restriction: open to COMM (single or combined) and PCUL (single and combined) majors until date specified in Registration guide.

Prerequisite: COMM 1F90 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)80 to 1(alpha)99 or permission of the instructor.

#### #COMM 2P18

##### Reporting and News Writing for Mass Media

(also offered as WRIT 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 majors until date specified in Registration guide.

Prerequisite: one credit from COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99, WRIT 1(alpha)80 to 1(alpha)99 or permission of the instructor.

Note: students minoring in Writing may register prior to date specified in Registration guide. Contact the English Department.

Completion of this course will replace previous assigned grade in WRIT 3P09.

#### #COMM 2P20

##### Theories of Popular Culture

(also offered as FILM 2P20 and PCUL 2P20)

Historical, theoretical and critical approaches to various forms of popular culture (film,

music, television, literature, periodicals and advertising).

*Lectures, seminar, lab, 4 hours per week.*

Restriction: open to COMM (single or combined), FILM (single or combined) and PCUL (single or combined) majors until date specified in Registration guide.

Prerequisite: one of COMM 1F90, CANA 1F91, FILM 1F94 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 (single or combined), FILM (single or combined) and PCUL (single or combined) 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 (single or combined), PCUL (single or combined) 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 (single or combined) until date specified in Registration guide.

Prerequisite: COMM 2P20.

#### COMM 2P51

##### **Language and Communications**

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 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.

Completion of this course will replace previous assigned grade in COMM (FILM/SOCI) 2F54.

#### #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 (single or combined) majors and SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: COMM 1F90, SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade 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, or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM (FILM) 2F97.

#### 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 2P20.

#### COMM 2P90

##### **Computer-Mediated Communication**

Nature of computer-mediated communication (CMC) and its role in social, educational and interpersonal contexts. Practicum component will introduce the technology and the methodologies that are essential to explore the potential of CMC.

*Lectures, seminar, lab, 4 hours per week.*

Prerequisite: COMM 1F90 or permission of the instructor.

#### COMM 2P91

##### **Hypertext: Reading and Writing in New Spaces**

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, lab, 4 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.

#### #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 Communications 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 Communications 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.

## COMMUNICATIONS STUDIES

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 economics and public policy.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COMM (single and combined), PCUL (single and combined) 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 (single or combined) and PCUL (single or combined) majors with a minimum of 8.0 overall credits.

Prerequisite: COMM 2P15.  
Completion of this course will replace previous assigned grade in COMM (PCUL/SOCI) 3P16.

### #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 (single or combined), FILM (single or combined), PCUL (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: one of COMM 2P20 and 2P21, 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 (single or combined), FILM (single or combined), PCUL (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: COMM 3P20 or permission of the instructor.

### #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 (single or combined) 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 1F90

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

### #COMM 3P54

#### Issues in Documentary Film

(also offered as FILM 3P54 and SOCI 3P54) Advanced studies in selected aspects of documentary film and other media.

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: COMM 2P54.

Completion of this course will replace previous assigned grade in COMM (FILM/SOCI) 2F54.

### #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 film lab.*

Prerequisite: COMM 2P56.

Completion of this course will replace previous assigned grade in COMM (FILM) 2F97.

### COMM 3P62

#### Public Relations and Integrated Marketing Communications

Examination of the public relations process; role, functions, historical evolution and relevance to effective marketing communications strategy.

*Lectures, 3 hours per week.*

Restriction: open to COMM (Business Communications stream) majors with a minimum of 9.0 overall credits.

Prerequisite: MKTG 2P52.

### \*COMM 3P63

#### Desktop Publishing and Design

(also offered as WRIT 3P63)

Practicum in desktop publishing, layout and design.

*Lectures, lab, 3 hours per week.*

Restriction: open to COMM (single or combined) and EWRT majors 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.

### 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 (single or combined) majors with a minimum of 9.0 overall credits.

Prerequisite: COMM 2P65.

#### #COMM 3P72

##### **Popular Music and Society**

(also offered as MUSI 3P72, PCUL 3P72 and SOCI 3P72)

Critical approaches to popular music in its social, cultural, political, and economic contexts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COMM (single or combined), MUSI (single or combined), PCUL (single or combined) and SOCI (single or combined) majors with a minimum of 8.0 overall credits or permission of the instructor. Completion of this course will replace previous assigned grade in COMM (MUSI/PCUL/POLI) 2P70 and COMM (MUSI/PCUL) 3P70.

#### #COMM 3P74

##### **Geography and Gender**

(also offered as GEOG 3P74 and WISE 3P74)  
Work of feminist geographers. Relationship between gender and space with respect to the organization of the city, architecture of the home, design of the shopping mall, the media, fear, homelessness, gentrification and employment.

*Lectures, seminar, 4 hours per week.*

Restriction: open to COMM, GEOG (single or combined) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of COMM 2P20 and 2P21, GEOG 2P02, 2P03, 2P06, WISE 2P90, 2P91 or permission of the instructor.

#### #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 (single or

combined) 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 1F90.

Note: PSYC 2F30 recommended. Students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

#### COMM 3P90

##### **Advanced Topics in Digital Culture**

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 3P92

##### **Technology and Culture** (also offered as PCUL 3P92)

Exploration of mutually productive relationships among cultural practices and technologies, using historical and contemporary examples.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: COMM 2P20, 2P21 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, COMM 2P21, SOCI 2P11 and 2P13 or permission of the instructor.

#### #COMM 3P94

##### **Film and Television Genres**

(also offered as FILM 3P94 and PCUL 3P94)  
Genre theory and its application to popular film and television. Topics may include the western, situation comedy, docudrama, film noir or melodrama.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: COMM 2P20 and 2P21.

#### #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)  
Construction 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 COMM 2P20 and 2P21, FILM 2F90, WISE 2P91, or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM 3F97.

#### #COMM 3P98

##### **Gender and Sexuality in Contemporary Cinema**

(also offered as FILM 3P98 and WISE 3P98)  
Representation of gender and sexuality via ideology, feminism, queer theory, and spectatorship in a range of contemporary film and video texts.

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: one of COMM 2P20 and 2P21, FILM 2F90, WISE 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM 3F97.

#### COMM 3V50-3V59

##### **Special Topics in Communications 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 communications studies.

Restriction: open to COMM (single or combined) majors with a minimum of 14.0 overall credits, a minimum 80 percent major

## COMMUNICATIONS STUDIES

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 (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 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 4P17

#### Canadian Cultural and Communications Policy

(also offered as PCUL 4P17)

Historical perspectives on the development of government policies affecting the arts, cultural industries, public and private broadcasting in Canada.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COMM (single or combined) and PCUL (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

### COMM 4P22

#### Technology, Change and Curriculum

Impact of technology and the information age on society and schools and the need to reflect resulting changes in school curriculum.

*Lectures, 3 hours per week.*

Restriction: open to COMM (Digital Culture stream) majors with approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Note: enrolment limited.

### #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 (single or combined), PCUL (single or combined) and SOCI (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

Prerequisite: COMM 3P14 or 3P15 (3P16).

### \*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, lab, seminar, 4 hours per week.*

Restriction: open to COMM (single or combined), FILM (single or combined) and PCUL (single or combined) majors with 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, lab, seminar, 4 hours per week.*

Restriction: open to COMM (single or combined), FILM (single or combined) and PCUL (single or combined) with 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 (single or combined) and POLS (single or combined) 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 4P50

#### Ethnography of Communication

Anthropological approaches to cultural variations in communications, 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 (single or combined) 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 (single or combined) 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 (single or combined) and PCUL (single or combined) 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 4V50-4V59

#### Research in Communications Studies

Special topics in communications studies.

*Seminar, 3 hours per week.*

Restriction: open to COMM (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

### COMM 4V54

#### 2005-2006: Functions of Technology in Organizations

Advanced seminar on the functions of information technology in diverse organizational settings, its effectiveness in

maintaining employee professional development, and its influence on attitude, behaviour and work practices.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COMM (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

## CO-OP COURSES

COMM 0N01

### Co-op Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to COMM Co-op students.

COMM 0N02

### Co-op Work Placement II

Second co-op work placement (4 months) with an approved employer.

Restriction: open to COMM Co-op students.

COMM 0N03

### Co-op Work Placement III

Third co-op work placement (4 months) with an approved employer.

Restriction: open to COMM Co-op students.

COMM 0N04

### Co-op Work Placement IV

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to COMM Co-op students.

COMM 0N90

### Co-op Training and Development

Provides a 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 COMM Co-op students.

# Community Health

This program is offered through the Department of Community Health Sciences

Chair

John Hay

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## General Information

Administrative Assistant

Joanne Falovo

905-688-5550, extension 4228

Academic South 329

<http://www.brocku.ca/communhealthsci/>

The BA Honours program in Community Health Sciences focuses on community health and wellness with an emphasis on health promotion and assessment as well as program development and evaluation. Students are prepared for careers in public health, and post-graduate study in a wide range of health related areas.

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## 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. To proceed to year 4 (honours) BA Community Health students must have a minimum 70 percent major average and submit an Application for Year 4 Studies available from the Office of the Registrar on the Web or in person.
3. At least one credit each year must be taken outside the Department of Community Health Sciences.
4. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

Year 1

- CHSC 1F90
- MATH 1P98
- one Humanities context credit
- one Science context credit
- one and one-half elective credits

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, 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, 3P80, 3P96
- one and one-half elective credits (see program notes 2, 3 and 4)

Year 4

- CHSC 4P50
- one and one-half credits from CHSC courses numbered 3(alpha)90 or above, (including PSYC 3P95, 4F50, 4P45)
- three elective credits (see program note 4)

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## Pass Program

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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## Description of Courses

See relevant calendar entry for course descriptions.



# Community Health Sciences

*Chair*  
John Hay

*Professor*  
John Hay

*Associate Professors*  
Anthony F. Bogaert, Brian Jaynes, Kelli-an G. Lawrance, Terrance J. Wade, Hui Di Wang

*Assistant Professors*  
Susan M. Arai, Brent E. Faught, Jian Liu, Dan Malleck, Deborah D. O'Leary, Ana L. Sanchez, Evangelia L. Tsiani

*Lecturer*  
Angela Kochan

*Adjunct Professor*  
John Cairney

*Undergraduate Adviser*  
Fern Pham

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## General Information

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*Administrative Assistant*  
Joanne Falovo

905-688-5550, extension 4228  
Academic South 329  
<http://www.brocku.ca/communhealthscil>

The Department of Community Health Sciences offers four-year Honours programs of study leading to a BA in Child Health, Community Health, a BSc in Health Sciences, Biomedical Sciences, as well as a BA Pass degree program in Community Health.

The BA Honours program 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 BA Honours and 3 Year (Pass) program in Community Health focusses on community health and wellness emphasizing health promotion, health assessment as well as program development and evaluation. Students are prepared for careers in public health and postgraduate study in a wide range of health related areas.

The BSc Honours program in Health Sciences prepares students for careers in health professions with a bio-science perspective. This pre health professional degree program allows students to meet the requirements for post graduate degree programs in medicine and the allied health professions.

The BSc Honours program in Biomedical Sciences focusses 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.

*Please consult the relevant entries for a listing of program requirements.*

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## Science Credit Courses

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CHSC 2F95, 2P09  
CHSC 3P09, 3P19, 3P90, 3P97  
CHSC 4P07, 4P19, 4P95

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## Description of Courses

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**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

## COMMUNITY HEALTH SCIENCES

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### Prerequisites and Restrictions

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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 BMED, CHSC, CHLH and HLSC 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.*

Prerequisites: CHSC 1F90 and BIOL 1F90. Completion of this course will replace previous assigned grade\* in CHSC 2P94.

#### CHSC 2P07

##### Biostatistics I

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 and HLSC majors.

Prerequisite: MATH 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHSC 2Q07, PEKN 2P08, RECL 2P07, SPMA 2P07 and TOUR 2P07.

#### 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, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH, HLSC and NUSC students until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

## COMMUNITY HEALTH SCIENCES

Prerequisite: BIOL 1F90.

Note: this course provides foundation for students seeking Cardiac Rehabilitation Certification.

Completion of this course will replace previous assigned grade 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 and HLSC 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 and NUSC 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 and HLSC majors.

Prerequisite: MATH 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 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.*

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 and NUSC 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 in PSYC 3P34.

### CHSC 2P51

#### Advanced Human Sexuality

Topics include sexual attraction and love, sexual orientation, pornography and prostitution, sexual assault, sexual disorders, STDs and sex therapy.

*Lectures, 3 hours per week.*

Restriction: open to CHSC, CHLH and HLSC majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: CHSC 1F90 and 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) and HLSC majors 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 nutrition with emphasis on diet for health maintenance.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH, HLSC and NUSC majors until date specified in Registration guide.

Prerequisite: CHSC 1F90.

### CHSC 2P94

#### Functional Human Anatomy

Clinical systems approach to explore the structures of the human body and their inter-relationships.

*Lectures, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC, NUSC and RECL majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in CHSC 2F95.

### \* CHSC 2P97

#### Global Issues in Infectious Diseases

(also offered as INTL 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 and HLSC majors until date specified in Registration guide.

Prerequisites: CHSC 1F90 or INTL 1F90.

### 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 and HLSC majors with a minimum of 9.0 overall credits.

Prerequisite: CHSC 2P07 (2Q07).

### 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.

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.

#### Service Courses

COSC 1P93, 1P95 and 1P96 are intended for non-Computer Science majors who require an introduction to the use of computers. Students without previous computing experience are directed to COSC 1P95. COSC 1P93 is intended for students who require an introduction to programming. COSC 1P96 introduces the Internet and its resources and is open to all, but some previous computing experience is desirable. These courses may not be held for major credit by COSC (single or combined) majors, Computing and Business, Computing and Solid-State Device Technology and Computing and Network Communications students.

#### Major Credits

In calculating the major average for a Computer Science major or co-major, all COSC courses (with the exception of the service courses COSC 1P93, 1P95 and 1P96), 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 2P15 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. Students without high-school calculus should consider electing MATH 1P97 as a preliminary to later taking MATH 1P01 and 1P02.

3. MATH 1P01 and 1P02 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 Science context credit or Humanities context credit for the combined degree with Social Science context credit or Humanities context credit, respectively.

5. Students may take MATH 1P01 and 1P02 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 student re-declare their major or combined major, within the humanities, the Humanities Language requirement will have to be satisfied.

9. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered

3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

### Honours Program

#### Year 1

- COSC 1P02, 1P03 and 1P50 (see program note 1)
- MATH 1P66 and 1P67
- one Humanities context credit
- one Science context credit
- one-half elective credit (see program note 2)

#### Year 2

- COSC 2P03, 2P12, 2P13, 2P32 and 2P90
- MATH 1P01, 1P02 and 1P12
- one Social Science context credit

#### Year 3

- COSC 2P91 or 2P93
- COSC 3F00
- one of COSC 3P01, 3P71, 3P92
- one COSC credit (see program note 9)
- MATH 3F65
- one elective credit (see program note 2)

#### Year 4

- Three COSC credits (see program note 9)
- MATH 1P98 and 4P61
- one elective credit (see program notes 2 and 9)

#### 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 Science context credit
- one-half elective credit (see program note 2)

#### Year 2

Fall Term:

- COSC 2P03, 2P12 and 2P90
- MATH 1P01 and 1P12
- SCIE 0N90

Winter Term:

- COSC 0N01

Spring/Summer Sessions:

- COSC 2P13 and 2P32
- MATH 1P98
- one elective credit (see program note 2)

Year 3

- COSC 3F00
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92
- one-half COSC credit (see program note 9)
- MATH 1P02 and 3F65
- one Social Science context credit

Spring/Summer Sessions:

- COSC 0N02

Year 4

Fall Term:

- COSC 0N03

Winter Term:

- one and one-half COSC credits (see program note 9)
- one elective credit (see program notes 2 and 9)

Year 5

Fall Term:

- two COSC credits (see program note 9)
- MATH 4P61

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### BSc with Major Program

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Year 1

- COSC 1P02, 1P03 and 1P50 (see program note 1)
- MATH 1P66 and 1P67
- one Humanities context credit
- one Science context credit
- one-half elective credit (see program note 2)

Year 2

- COSC 2P03, 2P12, 2P13, 2P32 and 2P90
- MATH 1P01 and 1P02 or MATH 1P97 and one-half elective credit
- MATH 1P12
- one Social Science context credit

Year 3

- COSC 3F00
- COSC 2P91 or 2P93
- one and one-half COSC credits (see program note 9)
- MATH 3F65
- one elective credit (see program notes 2 and 9)

Year 4

- Three COSC credits (see program note 9)
- MATH 1P98
- one of MATH 2P71, 2P72, 3P60, 4P61, 4P71, 4P72
- one elective credit (see program notes 2 and 9)

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### Pass Program

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Year 1

- COSC 1P02, 1P03 and 1P50 (see program note 1)
- MATH 1P66 and 1P67
- one Humanities context credit
- one Science context credit
- one-half elective credit (see program note 2)

Year 2

- COSC 2P03, 2P12, 2P13, 2P32 and 2P90
- MATH 1P01 and 1P02 or MATH 1P97 and one-half elective credit
- MATH 1P12 or 1P98
- one Social Science context credit

Year 3

- COSC 2P91 or 2P93
- COSC 3F00
- one and one-half COSC credits (see program note 9)
- MATH 1P12 or 1P98 (not taken in year 2)
- one of MATH 2P71, 2P72, 3P60, 4P61, 4P71, 4P72, and one-half elective credit, or MATH 3F65
- one-half elective credit (see program notes 2 and 9)

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### Computer Science as a Second Degree Program

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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 at the 2(alpha)00 level 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. Permission to take COSC 3F00 concurrent with COSC 2P32 must be sought from the Chair to complete this pattern.

### Honours

Year 1

- COSC 1P02, 1P03 and 1P50
- MATH 1P12, 1P66, 1P67 and 1P97

Spring/Summer Sessions:

- COSC 2P03

Year 2

- COSC 2P12, 2P13, 2P32, 2P90 and 3F00
- COSC 2P91 or 2P93
- one of COSC 3P01, 3P71, 3P92

Year 3

- Two and one-half COSC credits numbered 3(alpha)90 or above
- MATH 3F65 and 4P61

### BSc with Major

Year 1

- COSC 1P02, 1P03 and 1P50
- MATH 1P12 or 1P98
- MATH 1P66, 1P67 and 1P97

Spring Term:

- COSC 2P03

Year 2

- COSC 2P12, 2P13, 2P32, 2P90 and 3F00
- one-half COSC credit
- one-half COSC credit numbered 2(alpha)90 level or above

*Year 3*

- Three COSC credits numbered 3(*alpha*)90 or above

**Pass**

Satisfactory completion of the first two years of the above BSc with a Major program entitles the student to apply for a Pass degree.

**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 Science 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
- two credits in co-major discipline
- one-half elective credit

*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 Science context credit
- one Social Science 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***Year 1*

- COSC 1P02 and 1P03 (see program note 1)
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- MATH 1P01 1P02, 1P66 and 1P67
- one Social Science context credit

*Year 2*

- COSC 1P50 and 2P03
- MATH 2F05
- PHYS 2P20, 2P31, 2P50 and 2P51
- one Humanities context credit

*Year 3*

- COSC 2P12, 2P13, 2P32 and 2P90
- MATH 1P12
- two credits from MATH 3P08, 4P09, PHYS 3P20, 3P35, 3P36, 3P41, 3P70
- one-half elective credit

*Year 4*

- COSC 3F00
- two COSC credits numbered 3(*alpha*)90 or above
- two credits from PHYS 4P51, 4P52, 4F90, 4P41, 4P70

**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 Science context credit
- one Social Science 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 note 8)
- VISA 1F98
- VISA 1P93 and 1P94 or VISA 1P96 and 1P97
- MATH 1P66 and 1P67
- one Science context credit

*Year 2*

- COSC 1P50, 2P03, 2P32 and 2P90
- VISA 2F95
- one VISA credit numbered 2(*alpha*)00 or above (VISA 2F96 recommended)
- one Social Science 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 Science context credit

*Year 2*

- COSC 1P50, 2P03, 2P32 and 2P90
- ECON 2P21, 2P22 and 2P90
- one-half ECON credit numbered 2(alpha)90 or above
- one Humanities context credit

*Year 3*

- COSC 2P12, 2P13 and 3F00
- ECON 3P21, 3P22, 3P90 and 3P91
- one elective credit

*Year 4*

- Two COSC credits numbered 3(alpha)90 or above
- ECON 4P13 and 4P14
- one 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 Science 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 entry) (see program note 6)
- one elective credit

*Year 4*

- Two COSC credits numbered 3(alpha)90 or above (see program note 6)
- GEOG 4F99
- one GEOG credit numbered 3(alpha)90 or above from group A or C (see Geography entry)

- 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 Science 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 entry) (see program note 6)
- one elective credit

*Year 4*

- Two COSC credits numbered 3(alpha)90 or above (see program note 6)
- GEOG 4F99
- one GEOG credit numbered 3(alpha)90 or above from group B or C (see Geography entry)
- one elective credit

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**Concentration Program**

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**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 and 3P01
- MATH 3F65 and 4P61
- one credit from COSC 3P92, 3P94, 4F90, 4P03, 4P13, 4P14, 4P75

Upon completion of the sequence, the designation "Concentration in Software Engineering" will be added to the student's transcript and diploma.

*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 and 3P71
- MATH 3F65 and 4P61
- one credit from COSC 4F90, 4P76, 4P77, 4P78, 4P79, 4V91, 4V97

Upon completion of the sequence, the designation "Concentration in Intelligent Systems" will be added to the student's transcript and diploma.

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**Brock/Colleges Articulation Agreement**

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**Brock-Sheridan College Articulation Agreement**

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 Computer Science BSc (Pass), BSc with a Major in Computer Science or BSc (Honours) programs. Students who have a grade of B in all transferred courses will be awarded 10 credits towards any of these three degrees, and can complete the requirements for the Pass degree within one year and the with a Major and Honours degrees within two years. The schedule of transferable courses is available from the Admissions Office.

*Brock - RCC College of Technology Articulation Agreement*

This agreement allows Brock to admit students from RCC College of Technology who have a minimum GPA of 3.5 to the Computer Science BSc (Pass), BSc with a Major in Computer Science or BSc (Honours) programs. Students who have a grade of B in all transferred courses will be awarded five and one-half (5.5) credits towards any of these three degrees, and can complete the requirements for the Pass degree within two years and the with a Major and Honours degrees within three years. The schedule of transferable courses is available from the Admissions Office.

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## Course Descriptions

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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

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## Prerequisites and Restrictions

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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.

### 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, 3 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 or permission of the Chair.

### COSC 1P50

#### Integrity in the Information Age

Professional issues in computing including historic and social perspectives; legal issues, licensing and copyright; social and ethical

issues; professional conduct; technical writing and presentations.

*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. Completion of this course will replace previous assigned grade in COSC 2P50.

### COSC 1P93

#### Introduction to Computer Programming

Modern software techniques: problem solving and design of effective algorithms; structured program design methodology; subprogram library usage; documentation; correctness; floating-point arithmetic; error analysis. Programming assignments are implemented in a high-level language (such as C or FORTRAN).

*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: OAC mathematics credit.

### COSC 1P95

#### Computers and Application Software

Introduction to computers and contemporary application software; overview of applications used in industry, science, education, and research. Topics include computer architecture fundamentals; spreadsheets; macro programming; databases; presentation graphics; and integration between different applications. Practical experience using various application packages.

*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.

Completion of this course will replace previous assigned grade in COSC 1P90 and 1P98.

### COSC 1P96

#### Internet Programming and Applications

Advanced introduction to the Internet and its use. Topics include the history and composition of the Internet; fundamental communication concepts and applications; the development of web-based applications, including HTML and web programming using JavaScript.

*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.

Completion of this course will replace previous assigned grade in COSC 1P99.

### 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 and CAST 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.

Completion of this course will replace previous assigned grade in COSC 1P12.

### 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 1P03 (minimum 60 percent) and 2P12 (minimum 60 percent).

### COSC 2P32

#### File and Database Systems

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).

### COSC 2P89

#### Advanced Internet and Intranet

Concepts and techniques required for building and maintaining advanced interactive Web

## COMPUTER SCIENCE

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).

### COSC 2P90

#### Programming Languages and Object-Oriented

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 modeling.

*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.*

Prerequisites: COSC 1P03 (minimum 60 percent), 2P12 (minimum 60 percent) and 2P03 (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 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 2P32 (minimum 60 percent).

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 2P12 (minimum 60 percent), 2P03 (minimum 60 percent) and MATH 1P67; MATH 1P01 or 1P97.

### COSC 3P40

#### Advanced Object-Oriented Programming

Advanced programming techniques such as graphical user interfaces, networking, parallelism, database connectivity, multi-tiered systems, client-server and e-commerce. Introduction to advanced Java APIs such as swing, net, threads, JDBC, CORBA and JSP.

*Lectures, 3 hours per week, lab, 2 hours per week.*

Prerequisites: COSC 2P03 (minimum 60 percent) and 2P90 (minimum 60 percent).

### 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).

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 2P12 (minimum 60 percent) and 2P13 (minimum 60 percent).

### 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).

### COSC 3P94

#### Introduction to Human Computer Interaction

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: COSC 1P50 (minimum 60 percent).

Completion of this course will replace previous assigned grade in COSC 3P04.

### 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 2P12 (minimum 60 percent) and 2P13 (minimum 60 percent).

Note: completion of PHYS 1P91, 1P92 (1F90) and COSC 2P91 is recommended before taking this course.

Completion of this course will replace previous assigned grade in COSC 3V95.

### 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) and MATH 1P12.

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 2P03 (minimum 60

percent) and MATH 3F65.

Note: MATH 3F65 may be taken concurrently.

Completion of this course will replace previous assigned grade in COSC 4V92.

#### 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 2P12 (minimum 60 percent), 2P13 (minimum 60 percent) and 2P91 (minimum 60 percent).

#### 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 2P13 (minimum 60 percent) and 3P01 (minimum 60 percent).

#### 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).

#### 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).

Completion of this course will replace previous assigned grade in COSC 4V91.

#### COSC 4P77

##### Evolutionary Computation

Topics include genetic algorithms, genetic programming, evolution strategies, comparison of natural and artificial evolution and applications in problem solving, engineering and design. A variety of applications will be developed.

*Lectures, seminar, 3 hours per week.*

Prerequisite: COSC 3P71 (minimum 60 percent).

Completion of this course will replace previous assigned grade in COSC 4V93.

#### COSC 4P78

##### Robotics

Computer control aspects of robots focussing 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 2P12 (minimum 60 percent), 2P90 (minimum 60 percent), 3P71 (minimum 60 percent) and MATH 1P12.

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).

#### 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).

Completion of this course will replace previous assigned grade in COSC 4V98.

## COMPUTER SCIENCE

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.

COSC 4V80

### 2005-2006: 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.*

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors.

Prerequisite: COSC 3P71.

COSC 4V81

### 2005-2006: 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.*

COSC 4V94

### 2005-2006: Discrete Event Simulation

Classification of modeling and simulation problems: discrete, continuous and Monte Carlo. Concepts of causality, understanding and modeling. 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.

Prerequisites: COSC 2P03 (minimum 60 percent) and MATH 3F65 (minimum 60 percent).

Note: completion of MATH 1P98 is recommended before taking this course.

COSC 4V97

### 2005-2006: 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.*

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors.

COSC 4V99

### 2005-2006: Computability and Complexity

What can and cannot be computed, how quickly, with how much memory and on which type of computational model. Language families, their properties and machines, the Chomsky Hierarchy; the Church-Turing Thesis, the Halting problem, time and space complexity, complexity classes, polynomial reduction.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COSC (single or combined), BCB, CAST and CNET majors.

Prerequisite: MATH 4P61 or permission of the instructor.

## 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, Department of Computer Science

## Advisers

Danny Cho, Faculty of Business  
David Hughes, Department of Computer Science

## Director, Co-operative Programs

Cindy Dunne

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## General Information

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### Administrative Assistant

TBA

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.

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### Program Note

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1. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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### Honours Program

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#### 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 Science 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 (see program note 1)

### 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

#### Year 3

- COSC 3F00
- one-half COSC credit
- 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 (see program note 1)

*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)
- one-half COSC credit (see program note 1)

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#### Description of Courses

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See relevant calendar entry for course descriptions.

# Computing and Network Communications

*This program is offered through the  
Department of Computer Science*

## Co-ordinators

Jon Radue

## Adviser

Gord Dunkley

## Director, Co-operative Programs

Cindy Dunne, Brock University

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## General Information

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### Administrative Assistant

TBA

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 overall 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.

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## Honours Program

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Students admitted to the Computing and Network Communications 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

(taken at Brock University)

- COSC 1P02, 1P03 and 1P50
- MATH 1P66, 1P67 and 1P97
- one Science context credit
- one Social Science 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 elective

### 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

Courses taken at Sheridan College are described in the Sheridan College Calendars.

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## Description of Courses

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See relevant calendar entry for course descriptions.

# Computing and Solid-State Device Technology

*This program is offered through the Department of Physics*

## *Co-ordinator*

Edward Sternin, Department of Physics

## *Advisers*

Edward Sternin, Department of Physics  
Vladimir Wojcik, Department of Computer Science

## *Director, Co-operative Programs*

Cindy Dunne

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## General Information

---

### *Administrative Assistant*

Fran Meffe

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.

CAST is an interdisciplinary program emphasizing the practical aspects of computing and applications of solid-state device technology. 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.

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## Program Notes

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1. Computing and Solid-State Device Technology students are recommended to take COSC 3P01.
2. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above.

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## Honours Program

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### *Year 1*

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- CHEM 1P90
- COSC 1P02 and 1P03
- MATH 1P01, 1P02 and 1P12
- one Humanities context credit or one Social Science context credit

### *Year 2*

- PHYS 2P31 and 2P32
- COSC 2P12 and 2P13
- MATH 1P66 and 1P67
- MATH 2P05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Science context credit not taken in year 1

### *Year 3*

- PHYS 2P50, 2P51 and 3P92
- one of PHYS 3P35, 3P36, 3P41
- COSC 2P03, 2P90 and 2P91
- one of COSC 2P93, 3P01, 3P71, 3P92, 3P95, 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 PHYS 4P92 and COSC 3P99
- one credit from COSC 2P93, 3P01, 3P71, 3P92, 3P95, 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, 1P02 and 1P12
- one Humanities context credit or one Social Science context credit

### *Year 2*

- PHYS 2P32
- COSC 2P12 and 2P13
- MATH 1P66 and 1P67
- MATH 2F05, or MATH 2P03 and 2P08
- SCIE 0N90
- the Humanities context credit or Social Science context credit not taken in Year 1

### Spring/Summer Sessions:

- PHYS 0N01

*Year 3*

- PHYS 2P31, 2P50, 2P51, 3P92 and 3P93
- one of PHYS 3P35, 3P36, 3P41
- COSC 2P03, 2P90 and 2P91
- one credit from COSC 2P93, 3P01, 3P71, 3P92, 3P95, 4P78 (not taken in year 3)

Spring/Summer Sessions:

- PHYS 0N02

*Year 4*

Fall Term:

- PHYS 3P70
- one of PHYS 3P35, 3P36, 3P41 (not taken in year 3)
- one credit from COSC 2P93, 3P01, 3P71, 3P92, 3P95, 4P78 (not taken in year 3)
- one-half elective credit

Winter Term:

- PHYS 0N03

*Year 5*

Fall Term

- PHYS 4F90, or PHYS 4P92 and COSC 3P99

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Description of Courses

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See relevant calendar entry for course descriptions.

## Co-operative Programs ✓

*Director*  
Cindy Dunne

*Associate Director*  
Kristine Dawson

*Co-ordinators*  
Carolyn Connor, Valerie Coppard, Amanda  
Dunn, Jennifer Cockell

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### General Information

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*Administrative Assistant*  
Betty Leveille

*Academic South, Room 362*  
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 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 Language Studies -  
Applied Linguistics Stream  
(BA Honours, 4 yrs)

Applied Language Studies -  
Teaching English as a Second Language Stream  
(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)

Communications - Business Communications  
Stream  
(BA Honours, 4 yrs)

Communications - Digital Culture Stream  
(BA Honours, 4 yrs)

Communications - Media, Culture and  
Society Stream  
(BA Honours, 4 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 - Environmental Geoscience  
(BSc Honours, 5 yrs)

Economics  
(BA Honours, 4.5 yrs)

Environment - Applied Environmental  
Science and Technology  
(BSc Honours, 4.5 yrs)

Film Studies  
(BA Honours, 4.5 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)

Popular Culture  
(BA Honours, 4 yrs)

Political Science - Public Administration  
(BA Honours, 4.5 yrs)

Psychology  
(BA Honours, with a 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 OAC, 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.

Admission from university year 1 or 2: Students are eligible to apply for admission to the co-op option with a minimum 70 percent major average and a minimum non-major average of 60 percent, as calculated by the Registrar's Office. Admission is competitive, and students must submit a resume and attend a personal interview. Final decisions for admission are based on the results of the interview.

International students on Study Permits are welcome to apply to and be considered for admission to co-op programs at Brock University. However, admission to some programs may be limited or restricted due to limitations imposed by industry requirements, or Canadian Immigration, which make it difficult to secure placements for Visa international students and present challenges for successful completion of required work

terms. Visa students are ineligible to apply for Accounting Co-op and Public Administration Co-op.

#### Work Study Sequence

The work study sequence optimizes the quality of the work experience, by providing an opportunity to work during each cycle or season of a business. The alternating terms also ensure academic course requirements are met on a timely basis.

A minimum of 3 work terms of 13 - 16 weeks each is required to complete degree requirements. Students are expected to complete the schedule as prescribed to meet graduation requirements. The start and end dates of each work term are program specific; please refer to the calendar entry for the degree program.

All co-op and internship work terms are recorded as course entries on students' academic transcripts.

#### Program Continuation

All co-op students are evaluated according to the academic regulations of their degree program, and continuation in the co-op option is contingent on maintaining the required academic performance. All co-op option students must also maintain a minimum 70 percent major average and a 60 percent minimum non-major average. Students with lower averages may not be permitted to continue in the co-op option. Students having difficulties meeting academic requirements are strongly encouraged to see an academic adviser.

Students must maintain full-time status throughout the program. The only allowable exception is for students who have sufficient credits to complete while registered as a part-time student in the final term only, provided all full-time requirements of the Faculty have been met.

All work terms must be complete prior to the final academic term.

#### Pre-employment Training

All students are required to register in and complete a co-op pre-employment training and development course comprising of lectures, presentations and site-visits for two hours prior to enrolment in first co-op work terms.

#### Graduation Requirements

Students in the co-op option must complete a minimum of three co-op work terms with satisfactory evaluations. To meet graduation requirements, students must submit work term reports and receive a satisfactory evaluation on both the work term and the work term report.

#### Withdrawals

In certain cases, students may choose to withdraw from the co-op option into the regular program. The University can withdraw a student involuntarily from the co-op option if the student has not completed the three required work terms with satisfactory evaluations, or if the student has not met the required academic performance. Unsatisfactory work term evaluations are reviewed and confirmed by the Director of the Co-op Program Office in consultation with a committee of the Dean and two faculty members. Involuntary withdrawals are noted on the student's academic transcript.

#### Placement of Co-op Students

Co-op programs do not guarantee work term employment. The Co-op Office assists in securing employment opportunities. Ultimately it is students' performance, skills and attitude that determine whether they are offered a co-op assignment.

#### Co-op Administration Fee

Co-op students are assessed an annual administrative fee in addition to regular academic tuition. Universities offering co-op programs incur significant costs related directly to operating the program, which are not provided for in government operating grants. The government Ministry has established guidelines for setting co-op fees in order that universities can recover the cost from program participants. Brock follows Ministry guidelines, and as with other Universities, sets fees to distribute cost recovery over the duration of the program. It is important to understand that the administrative fee is not a placement fee, but rather relates to all the non-academic costs of operating co-op programs. Please consult the Schedule of Fees for information regarding the amortization of Co-op fees. Co-op fees may increase each year.

# Dramatic Arts

## *Chair*

Derek Knight

## *Professor Emerita*

Mary Jane Miller

## *Associate Professor*

Glenys McQueen-Fuentes

## *Assistant Professors*

David Fancy, Jane Leavitt, Marlene Moser,  
Gyllian Raby, David Vivian

## *Technical Director*

Adrian Palmieri

## *Wardrobe Co-ordinator*

Margaret Molokach

## *Part Time Instructors:*

Dramatic Literature: Terrance Cox

Theatre: Peter Feldman (scene study), Virginia Reh (voice and acting), Leigh Kerr (stage management), Janis Barlow (Arts Management)

Drama in Education and Society: Suzanne Burchell, Helen Zdriluk

Resident Theatre Company: Theatre Beyond Words

## *Artistic Committee Members*

Harro Maskow, Artistic Director  
Terry Judd, Co-Artistic Director  
Robin Patterson,  
Artistic Producer  
Carolina Ramos  
Kevin Stewart, Associate Director  
145 King Street  
St. Catharines, ON L2R 3J2  
<http://www.theatrebeyondwords.com>

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## General Information

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### *Administrative Assistant*

Monika Lederich

905-688-5550, extension 3214

Thistle west 135

<http://www.brocku.ca/dramaticarts>

The Department of Dramatic Arts (DART), part of the School of Fine and Performing Arts, addresses the study, application and

interrogation of the discipline as cultural and educational practice.

The Department of Dramatic Arts offers four-year programs of study with streams in Drama in Education and Society, Dramatic Literature, and Theatre, leading to a BA Honours in Dramatic Arts; a four-year (20 credit) BA with a Major in Theatre degree; a BA (Pass) degree as well as minor in Dramatic Arts. The Department also offers both a Concentration and a Certificate program in Drama in Education and Society for non-DART majors. All three areas are united under one goal: to integrate theory and practice so as to provide students with a broad base of education combining research, practice and creative development. Technical, design and performance skills and practice are integrated in various ways with the study of critical theory, theatre history, dramaturgy and dramatic literature.

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).

Projects include two major productions, as well as various minor productions and events, such as the School of Fine and Performing Arts Spring Festival.

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.

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## Language Requirement for Humanities Majors

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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 fulfill the requirement, both half credits must be in the same language. It is recommended that students fulfill this requirement by year 2. (Theatre stream students are urged to fulfill this requirement in year 1).

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## Program Notes

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1. Students must satisfy context requirements before year 3.
2. A minimum of 60 percent in both DART 1F93 and 1F99 is required in order to proceed as a major in any of the Dramatic Arts streams.
3. Year 3 courses are normally restricted to students with at least three 2(alpha)00 credits or permission of the instructor.
4. Enrolment in some courses may be restricted due to space limitations.
5. Students seeking admission to the Honours program must have a minimum 70 percent overall average in their DART courses.
6. Students wishing to pursue a career in teaching at the high school level must plan their first year 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. This applies particularly to students in the Drama in Education stream, due to their limited number of electives.
7. ENGL2Q92, 2Q93, 2Q94, 2Q95, 2Q96, 2Q97 or 2V91 may be taken as year 2 DART credits in the dramatic literature stream.
8. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

**Honours Program**

**Drama in Education and Society stream**

*Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

*Year 2*

- DART 2F04 or 2F50
- DART 2F94, 2P01, 2P02 and 2P70
- DART 3P04 or 3P05
- one elective credit

*Year 3*

- One of DART 3F50, 3F61, 3F78
- DART 3F94
- one of DART 3P03, 3P04, 3P05, 3P06, 3P07
- one of DART 2P96, 2P97, 3P90, 3P91, 3P95
- two elective credits

*Year 4*

- DART 4F71 and 4F91 or DART 4F90 and one elective credit
- one of DART 3P03, 3P04, 3P05, 3P06, 3P07 (not taken in year 3)
- one of DART 2P96, 2P97, 3P90, 3P91, 3P95, 3P96 (not taken in year 3)
- two credits from DART 3F50, 3F61, 3F78, 3P03, 3P04, 3P05, 3P06, 3P07, 3P42, 3P53, 3P54, 3P92, 3Y43, 3Y44, 3Y45, 3Y46, 4F40, 4F56, 4F94, 4P70
- one elective credit

**Dramatic Literature stream**

*Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

*Year 2*

- DART 2F94
- DART 2F92 or DART 2P96 and 2P97
- three elective credits

*Year 3*

- DART 3F94
- DART 2F92 or DART 2P96 and 2P97 (not taken in year 2)

- one credit from DART 3P90, 3P91, 3P95, 3P96
- one additional DART credit
- one elective credit

*Year 4*

- DART 4F90 and 4F94
- one credit from DART 3P90, 3P91, 3P95, 3P96, (not taken in year 3)
- one and one-half DART credits numbered 3(alpha)00 or above
- one-half elective credit

**Theatre stream**

*Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

*Year 2*

- DART 2F04 or 2F50
- DART 2F41, 2F94 and 2P42
- DART 2F92 or DART 2P96 and 2P97
- one half elective credit

*Year 3*

- DART 3F94
- one credit from DART 2F92, 2P96, 2P97, 3P90, 3P91, 3P95, 3P96
- two credits from DART 3F50, 3F61, 3F78, 3P53, 3P54, 3P92, 3P06, 3P07, 3P42, 3Y43, 3Y44, 3Y45, 3Y46
- one elective credit

*Year 4*

- DART 4F40 or 4F56
- DART 4F90
- three 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.

**Drama in Education and Society stream**

*Year 1*

- DART 0N90, 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

Spring/Summer Sessions:

- DART 0N01

*Year 2*

- DART 2F04 or 2F50
- DART 2F92 or DART 2P96 and 2P97
- DART 2F94 and 2P70
- DART 2P01 and 2P02 or one elective credit
- one of DART 3P03, 3P04, 3P05, 3P06, 3P07

Spring/Summer Sessions:

- DART 0N02

*Year 3*

- DART 3F78, 3F94 and 4P70
- one and one-half credits from DART 3P03, 3P04, 3P05, 3P06, 3P07 (not taken in year 2)
- one credit from DART 2F41, 3F50, 3F61, DART 3P53 and 3P54, DART 3P90, 3P91, 3P92, DART 3P95 and 3P96

Spring/Summer Sessions:

- DART 0N03

*Year 4*

- DART 4F90
- one of DART 4F40, 4F56, 4F94
- three elective credits

**Dramatic Literature stream**

*Year 1*

- DART 0N90, 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

Spring/Summer Sessions:

- DART 0N01

*Year 2*

- DART 2F92 or DART 2P96 and 2P97
- DART 2F94
- two additional DART credits
- one elective credit

Spring/Summer Sessions:

- DART 0N02

*Year 3*

- DART 3F94
- DART 2F92 or DART 2P96 and 2P97(not taken in year 2)
- one credit from DART 3P90, 3P91, 3P95, 3P96
- two elective credits

Spring/Summer Sessions:

- DART 0N03

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### *Year 4*

- DART 4F90 and 4F94
- one credit from DART 3P90, 3P91, 3P95, 3P96 (not taken in year 3)
- two elective credits

### Theatre stream

#### *Year 1*

- DART 0N90, 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### Spring/Summer Sessions:

- DART 0N01

#### *Year 2*

- DART 2F04 or 2F50
- DART 2F41, 2F94 and 2P42
- DART 2F92 or DART 2P96 and 2P97
- one-half elective credit

#### Spring/Summer Sessions:

- DART 0N02

#### *Year 3*

- DART 3F94, 3P42 and 4F40
- one and one-half credits from DART 3F50, 3F61, 3P53, 3P54, 3P92, 3Y43, 3Y44, 3Y45, 3Y46
- one elective credit

#### Spring/Summer Sessions:

- DART 0N03

#### *Year 4*

- DART 4F56 or 4F94
- DART 4F90
- three elective credits

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### Concurrent BA (Honours)/BEd

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The Department of Dramatic Arts and the Faculty of Education co-operate in offering two Concurrent BA (Honours)/BEd programs. The Dramatic 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.

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### BA with Major in Theatre

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#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### *Year 2*

- DART 2F41, 2F50, 2F94 and 2P42
- one and one-half elective credits

#### *Year 3*

- Two credits from DART 2F92, DART 2P96 and 2P97, DART 3P90 and 3P91, DART 3P95 and 3P96
- one credit from DART 3F50, 3F61, 3F78, 3P06, 3P07, 3P42, 3P53, 3P54, 3P92, 3Y43, 3Y44, 3Y45, 3Y46
- two elective credits

#### *Year 4*

- DART 3F94
- DART 4F40 or 4F56
- one DART credit numbered 3(alpha)00 or above
- two elective credits

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### Pass Program

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### Drama in Education and Society stream

#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### *Year 2*

- DART 2F04 or 2F50
- DART 2F94 and 2P70
- DART 2P01 and 2P02 or one elective credit
- one and one-half elective credits

#### *Year 3*

- DART 3F78 and 3F94
- one credit from DART 3P03, 3P04, 3P05, 3P06, 3P07
- one credit from DART 2P42, 3F50, 3F61, 3P53, 3P54, 3P92, 3Y43, 3Y44, 3Y46
- one elective credit

### Dramatic Literature stream

#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### *Year 2*

- One of DART 2F92, 2F94, DART 2P96 and 2P97
- two elective credits

#### *Year 3*

- DART 3F94
- one credit from DART 3P90, 3P91, 3P95, 3P96
- two additional DART credits
- one elective credit

### Theatre stream

#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### *Year 2*

- DART 2F04 or 2F50
- DART 2F41, 2F94 and 2P42
- DART 2F92 or DART 2P96 and 2P97
- one-half elective credit

#### *Year 3*

- DART 3F94
- one credit from DART 3F50, 3F61, 3F78, 3P06, 3P07, 3P42, 3P53, 3P54, 3P92, 3Y43, 3Y44, 3Y45, 3Y46
- three elective credits

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**Combined Major Program**

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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.

**Honours**

**Drama in Education and Society stream**

- DART 1F93, 2P01, 2P02, 2P70 and 4F90
- DART 2F04 or 2F50
- two credits from DART 2F94, 2F92, 2P96, 2P97, 3F94, 3P90, 3P91, 3P95, 3P96
- one and one-half credits from DART 3P03, 3P04, 3P05, 3P06, 3P07, 3P92, 4P70
- one language credit (see language requirement)

**Dramatic Literature stream**

- DART 1F93, 1F99, 2F94, 3F94, 4F90
- one of DART 2F92, 2P96 and 2P97 4F94
- one of DART 3P90 and 3P91, DART 3P95 and 3P96
- one language credit (see language requirement)

**Theatre stream**

- DART 1F93, 1F99, 2F41, 2F50, 2F94, 3F94, 4F56 and 4F90
- DART 3F50 or DART 3P53, 3P54,
- one language credit (see language requirement)

**Pass**

**Drama in Education and Society stream**

- DART 1F93, 1F99, 2F94, 2P01 and 2P02
- two credits from DART 2P70, 3F78, 3P03, 3P04, 3P05, 3P06, 3P07, 3P92, 4P70
- one language credit (see language requirement)

**Dramatic Literature stream**

- DART 1F93, 1F99, 2F94 and 3F94
- one of DART 2F92, DART 2P96 and 2P97, DART 3P90 and 3P91, DART 3P95 and 3P96
- one language credit (see language requirement)

**Theatre stream**

- DART 1F93, 1F99, 2F41, 2F94 and 2P42
  - one of DART 2F04, 2F50, 3F78
  - one credit from DART 2F92, 3F50, 3F61, 3P42, 3P53, 3P54, 3P92, 3Y43, 3Y44, 3Y45, 3Y46
  - one language credit (see language requirement)
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**Certificate in Drama in Education and Society**

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The Certificate in Drama in Education and Society would be of particular interest to social workers, drama therapists, psycho-therapists, prison counselors, people who train volunteers, personnel managers, union organizers and market consultants who wish to add to existing qualifications or to acquire courses which might later be applied to a degree. Development of skills, such as assessing and evaluating what is perceived, generating ideas, making connections, predicting outcomes, empathizing, abstracting the core from the periphery, questioning, accommodating and compromising, self-presentation. University admission standards apply.

The certificate is awarded upon completion of the following courses with a minimum 60 percent overall average:

- DART 2P01 and 2P02
  - three credits from DART 2P70, 3F78, 3P03, 3P04, 3P05, 3P06 and 3P07
  - one of BIOL 1F25, CANA 1F91, MUSI 1F00, PSYC 1F90, VISA 1F98, RECL 1P90 and 1P91
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**Concentration in Drama in Education and Society**

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Students can earn a Concentration in Drama in Education by including the courses listed below as part of their academic work leading to an Honours degree in an academic department or program. The words "Concentration in Drama in Education" will be added to the student's transcript if the required courses are successfully completed. Students are advised to consult the Chair of Dramatic Arts.

- DART 2P01 and 2P02
  - one credit from DART 2F92, 2F94, 2P96, 2P97, 3F50, 3F94, 3P90, 3P91, 3P95, 3P96
  - four credits from DART 2P70, 3P03, 3P04, 3P05, 3P06, 3P07, 4F70, ENGL 2P10, 2P11
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**Minor in Dramatic Arts**

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Students in other disciplines may obtain a Minor in Dramatic Arts by successfully completing the following courses with a minimum 60 percent overall average:

- DART 1F93, 2P01 and 2P02
  - one of DART 2F92, 2F94, DART 2P96 and 2P97
  - DART 2F04 or 3F78
- 

**Course Descriptions**

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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
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**Prerequisites and Restrictions**

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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.

**DART 1F93**  
**Introduction to Drama**  
 Fundamentals of dramatic criticism. Study of selected dramatic texts from ancient Greece to the present emphasizing genre, theatrical and literary conventions and historical context.  
*Lectures, seminar, 3 hours per week.*  
 Co-requisite for Dramatic Arts stream students: DART 1F99.

**DART 1F99**  
**Foundations in Dramatic Arts**  
 Applications of core concepts, methodologies and theories of theatre and drama in education

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and society emphasizing comparative world views.

*Lectures, workshops, 5 hours per week; additional rehearsal time as required.*

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Co-requisite for Dramatic Arts stream students: DART1F93.

Note: in order to proceed in the Theatre stream, students must attain a minimum 60 percent in both the technical and lecture/acting lab portion of this course. Materials fee required.

### DART 2F04

#### Introduction to Mime

Study and practice of some aspects of non-verbal theatre performance including mime techniques, mask, pantomime and improvisation. Theoretical component focussing on critical analysis. Development of the ability to express perceptions, both physically in the practical performance work and verbally in the work on critical analysis.

*Lectures, seminar, workshop; additional production and rehearsal time as required.*

Restriction: permission of the instructor.

Prerequisite: DART 1F99, 2P01 or permission of the instructor.

Note: offered as a three-week intensive course in the Spring Session. This course is taught by working theatre professionals (Theatre Beyond Words - resident company at Brock) and reflects some of the methods used in the creation of their productions. Materials fee required. Enrolment limited to 20 students.

### DART 2F41

#### Stage Craft

Theory and application of technical theatre production.

*Lectures, lab, 5 hours per week.*

Restriction: permission of the instructor.

Prerequisites: DART 1F93 and 1F99.

Co-requisite for Theatre stream students: DART 2F50 and 2P42.

Note: materials fee required. Enrolment limited to 20 students per section.

### DART 2F50

#### Performance I

Principles of creating and sustaining dramatic action. Personal clown, mask (various styles) and scene studies emphasizing increasing effectiveness through group and individual exercises.

*Lectures, workshop, lab, 5 hours per week.*

Restriction: open to DART (single or combined) majors until date specified in

Registration guide.

Prerequisite: DART 1F99 or permission of the instructor.

Co-requisites for Theatre stream students: DART 2F41 and 2P42.

Note: materials fee required.

Completion of this course will replace previous assigned grade in DART 2P51 and 2P52.

### DART 2F92

#### Script Analysis and Interpretation

Variety of 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.

### DART 2F94

#### Theatre as Cultural Practice I

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, theatre historiography.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART 1F93 or one ENGL credit numbered 1(alpha)90-1(alpha)99.

### DART 2M90-2M99

#### Special Studies in Dramatic Arts

Restriction: permission of a faculty supervisor.

Note: materials fee may be required.

### DART 2P01

#### Foundations in Drama in Education

Introduction to theory and practice: for Theatre and Child and Youth Studies students, teachers and future teachers, social and community workers and potential therapists focussing on basic theatre elements, practical strategies and active participation.

*Lectures, workshop, 3 hours per week.*

Restriction: open to DART (single or combined) majors and DREC certificate students until date specified in Registration guide. Students must hold a minimum of 4.0 overall credits.

Note: enrolment limited to 25 students per section. Materials fee required. DREC 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, 3 hours per week.*

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisite: DART 1F99, 2P01 or permission of the instructor.

Note: enrolment limited to 25 students per section. Materials fee required.

### DART 2P42

#### Stage Production

Practical work in technical theatre, including crew work on senior level productions.

*Lectures, labs, 5 hours per week; additional crew calls and production time as required.*

Restriction: open to DART (single or combined) majors until date specified in Registration guide.

Prerequisites: DART 1F93 and 1F99.

Co-requisite for Theatre stream students: DART 2F41.

Note: enrolment limited to 30 students. Entry is based on academic standing in DART 1F93 and all components of DART 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, 3 hours per week.*

Restriction: open to DART (single or combined) majors and DREC certificate students until date specified in Registration guide.

Prerequisite: DART 1F99, DART 2P01 and 2P02 or permission of the instructor.

Note: materials fee required.

### DART 2P96

#### Aboriginal Theatre

Theatrical, dramatic and performative representation of Aboriginal peoples in the Canadian experience.

Prerequisite: DART 1F93 or permission of the instructor.

Completion of this course will replace previous assigned grade in DART 2F97.

### DART 2P97

#### Canadian Drama

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.  
Completion of this course will replace previous assigned grade in DART 2F97.

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

**Greek and Roman 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 CLAS 1P91, 1P92, 1P95, 1P97, DART 1F93.

Completion of this course will replace previous assigned grade in CLAS 3P02.

DART 3F50

**Performance II**

Further studies in acting technique emphasizing analysis and 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) majors until date specified in Registration guide.

Prerequisites: DART 2F94; one of DART 2F41, DART 2P02 and 2P70, VISA 2F96.

Note: materials fee required.

DART 3F78

**Theatre in Education: Alternative Forms of Theatre**

Adaptation of non-western theatre into classroom and community settings emphasizing research, discussion and performance.

*Lectures, workshop, 3 hours per week.*

Restriction: open to DART (single or combined) majors and DREC certificate students until date specified in Registration guide.

Prerequisite: DART 1F99, or DART 2P01 and 2P02

Note: materials fee required.

Completion of this course will replace previous assigned grade in DART 3F12.

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, one ENGL credit numbered 2(alpha)00 or above or permission of the instructor.

# DART 3F96

**Interdisciplinary Workshop II**

(also offered as VISA 3F96)

Studio workshop for the development of independent projects based on the multi-disciplinary examination of critical discourses with reference to identity, visual culture, representation and the construction of meaning. Projects involve new media exploration, collaboration, collective practice and investigation of alternatives in public dissemination.

*Lectures, studio work, off-campus projects, 5 hours per week.*

Prerequisite: VISA 2F96 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 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, workshops, 3 hours per week.*

Restriction: open to DART (single or combined) majors and DREC certificate students until date specified in Registration guide.

Prerequisite: DART 2P01 or permission of the instructor.

Note: materials fee required.

DART 3P04

**Drama in Applied Contexts**

Exploration of Drama in Education theories and practical strategies of interactive learning to an area or areas of application; may extend beyond formal school education and into the wider community.

*Lectures, workshop, 3 hours per week.*

Restriction: open to DART (single or combined) majors and DREC certificate students until date specified in Registration guide.

Prerequisite: DART 2P01 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.

*Workshops, seminar, 3 hours per week; field trips as required.*

Restriction: open to DART (single or combined) majors and DREC certificate students until date specified in Registration guide.

Prerequisite: DART 2P01 or permission of the instructor.

Note: materials fee required.

DART 3P06

**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) majors and DREC certificate students until date specified in Registration guide.

Prerequisites: DART 1F99 and 2P01 or permission of the instructor.

Note: enrolment limited. Materials fee required.

## DRAMATIC ARTS

DART 3P07

### 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) majors and DREC certificate students until date specified in Registration guide.

Prerequisites: DART 1F99 and 2P01 or permission of the instructor.

Note: students with equivalent experience may register without prerequisite. Enrolment limited to 20 students. Materials fee required.

DART 3P42

### Stage 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: stage managing a production. Materials fee required.

DART 3P51

### Voice and Text Intensive

Fundamentals of anatomy, breath and exploration of sound bridging to text for performance.

*Lectures, workshop, studio*

Restriction: open to (single or combined) DART majors and permission of the Department.

Prerequisites: DART 1F93 and 1F99; one of DART 2F04, 2F50 3F78; one of DART 2F92, 2F94, DART 2P96 and 2P97.

Note: enrolment limited to 7 students. A three-week intensive studio course in voice, conducted at the Stratford Festival. Rehearsals and field trips to Stratford performances. Students are expected to pay their own expenses. Contact the Department for further details.

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 and permission of the instructor.

Prerequisite: one of DART 2F50, 2F41, 2P70.

Note: Materials fee required.

Completion of this course will replace previous assigned grade in DART 3F52.

DART 3P54

### Directing II

Directing practicum focussing on creating action, total theatre composition and team management.

*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.

Completion of this course will replace previous assigned grade in DART 3F52.

DART 3P90

### Postcolonial Theatre

Study of post-colonial theory and theatre.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of DART 2F92, 2F94, DART 2P96 and 2P97 or permission of the instructor.

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 of DART 2F92, 2F94, DART 2P96 and 2P97, two ENGL credits numbered 2(alpha)00 to 2(alpha)99.

Note: 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.

Completion of this course will replace previous assigned grade in DART 3F91.

DART 3P95

### Studies in Praxis I

Focussed study of performance theories.

*Lectures, 3 hours per week.*

Prerequisite: one of DART 2F92, 2F94, DART 2P96 and 2P97 or permission of 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.

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 4F40**

**Arts Administration**

(also offered as STAC 4F40 and VISA 4F40)

Development, organization and management of the arts.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 10 overall credits.

Note: materials fee may be required.

Completion of this course will replace previous assigned grade in CCST 4F40.

**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: one of DART 3F50, DART 3P53 and 3P54.

Co-requisite for Theatre stream students: DART 4F90.

Note: materials fee required.

**DART 4F71**

**Critical and Reflective Processes**

Theories and methods of developmental work from DART 4F91. Topics include thinking processes, identity formation, multiple intelligence and moral development.

*Seminar, 3 hours per week.*

Restriction: permission of the Department.

Co-requisite: DART 4F91.

Note: First term is offered online.

**DART 4F90**

**Critical Theory and Practice**

Advanced study of critical theory, its roots, its application to theatre and dramatic literature.

*Seminar, 3 hours per week.*

Restriction: open to DART (single or combined) 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).

**DART 4F91**

**Internship in Drama in Education and Society**

Internship in either an educational or community setting where students apply Drama in Education and Society theories and practices.

Restriction: open to DART (single or combined) students with a minimum 75 percent overall average, approval to year 4 (honours) and permission of the Department.

Co-requisite: DART 4F71.

Note: students may not concurrently register in DART 4P70. Internship proposal must be submitted no later than March 1st in the third year for approval by the Department. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade in DART 4P70.

**DART 4F94**

**Honours Thesis in Applied Critical Theory**

Critical, historical or creative project in dramatic arts of mutual interest to the student and the instructor.

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 before registration.

**DART 4P70**

**Advanced Praxis in Drama/Theatre in Education and Society**

In-depth combination of community-based practical applications of drama and/or theatre in education strategies with continued study of contemporary research.

*Practicum, lab, 3 hours per week; seminar 2 hours per week.*

Restriction: permission of the instructor.

Prerequisites: DART 2P01 and two and one-half credits in Drama and Theatre in Education studies.

Note: students may not concurrently register in DART 4F91. Limited enrolment. Materials fee required: Transportation to practicum is a student responsibility.

Completion of this course will replace previous assigned grade in DART 4F91.

**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*

Frank Fueten  
Keith Tinkler (as of July 1, 2005)

## *Undergraduate Program Adviser*

Wayne T. Jolly

## *Professors*

Uwe Brand, Richard J. Cheel, Frank Fueten,  
Wayne T. Jolly, Francine McCarthy, John  
Menzies, Keith Tinkler

## *Associate Professors*

Gregory C. Finn, Daniel McCarthy

## *Assistant Professor*

Stephen J. Cook

## *Adjunct Professors*

Kent Novakowski, Andy Panko

## *Senior Lab Instructor*

Howard Melville

## *Senior Lab Co-ordinator*

Astride Silis

## *Director, Co-operative Programs*

Cindy Dunne

## *Co-operative Program Co-ordinator*

Astride Silis

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## General Information

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### *Administrative Assistant*

Diane Gadoury

905-688-5550, extension 3526

Mackenzie Chown D433

<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. The preserved geological record, comprising the rocks of the earth, provides a

long record of global change in response to a variety of stimuli. Many earth scientists are involved in the unravelling of the record of global change and in predicting future changes to the planet.

The Department of Earth Sciences offers professional 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, four-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 a 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 facilities such as radiocarbon dating, a recirculating sediment flume, a dendrochronology laboratory, a glacial micromorphology laboratory, palynology laboratory, sedigraph, 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, cold rooms, 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 apply for membership in the Association of Professional Geoscientists of Ontario (APGO), allowing for the use of the designation P.Geo. (Professional Geoscientist). Candidates who have followed the recommended program should meet the knowledge requirements for eligibility and

should check with the Chair or the academic adviser prior to year 3 for more information regarding registration as a Professional Geoscientist.

### 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. COSC 1P93 recommended to fulfil the APGO requirements.
2. The unspecified science elective credit is to be taken from BIOL, CHEM, COSC, MATH or PHYS (except ASTR 1F00, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, 1P93 and SCIE 1F30).
3. ERSC 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 enrolled in the BSc Honours program are required to maintain a minimum 70 percent major average and a minimum 60 percent average in the remaining credits.
6. 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.
7. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 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 Science context credit (see program note 5)

#### Year 2

- ERSC 2P03, 2P05, 2P16, 2P17, 2P21 and 2P22
- one-half ERSC credit numbered 2(*alpha*)00 to 2(*alpha*)99
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- WRIT 2P14

#### Year 3

- ERSC 3P01, 3P03, 3P21, 3P24, 3P31 and 3P61
- one ERSC credit numbered 2(*alpha*)00 to 3(*alpha*)99
- the Humanities context credit or Social Science context credit not taken in year 1

#### Year 4

- ERSC 3P99
- three and one-half credits from ERSC 3P94, 3P98, 3V90-3V99, 4F91, 4P01, 4P10, 4P16, 4P22, 4P52, 4P61
- one elective credit (see program note 1)

### Environmental Geoscience

#### Year 1

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit (see program note 5)

#### Year 2

- ERSC 2P03, 2P05, 2P09, 2P16, 2P17 and 2P21
- one-half ERSC credit numbered 2(*alpha*)00 to 2(*alpha*)99
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- WRIT 2P14

#### Year 3

- ERSC 3P03, 3P01, 3P24, 3P25 3P31, 3P36, 3P61 and 3Q99
- the Humanities context credit or Social Science context credit not taken in year 1

#### Year 4

- Four credits from ERSC 3P26, 3P33, 3P85, 3V90-3V99, 4F91, 4P15, 4P26, 4P28, 4P31, 4P61, 4P80
- one elective credit (see program note 1)

### 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 Science context credit (see program note 5)

#### Year 2

- ERSC 2P03, 2P05, 2P16, 2P17, 2P21 and 2P22
- one-half ERSC credit numbered 2(*alpha*)00 to 2(*alpha*)90
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- SCIE 0N90
- WRIT 2P14

#### Spring/Summer Sessions:

- ERSC 0N01

#### Year 3

##### Fall Term:

- ERSC 3P03, 3P21, 3P31 and 3P61
- one-half elective credit (see program note 1)

##### Winter Term:

- ERSC 0N02

#### Year 4

##### Fall Term:

- ERSC 0N03

##### Winter Term:

- ERSC 3P01 and 3P24
- one ERSC credit numbered 2(*alpha*)00 to 3(*alpha*)99
- one-half elective credit (see program note 1)

## EARTH SCIENCES

Spring/Summer Sessions:

- ERSC 3P99

*Year 5*

- Three and one-half credits from ERSC 3P94, 3P98, 3V90-99, 4F91, 4P01, 4P10, 4P16, 4P22, 4P52, 4P61
- 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 Science context credit (see program note 5)

*Year 2*

- ERSC 2P03, 2P05, 2P09, 2P16, 2P17 and 2P21
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)90
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- SCJE 0N90
- WRIT 2P14

Spring/Summer Sessions

- ERSC 0N01

*Year 3*

Fall Term:

- ERSC 3P03, 3P31, 3P36 and 3P61
- one-half elective credit (see program note 1)

Winter Term:

- ERSC 0N02

*Year 4*

Fall Term:

- ERSC 0N03

Winter Term:

- ERSC 3P01, 3P24 and 3P25
- one elective credit (see program note 1)

*Year 5*

- ERSC 3Q99
- three and one-half credits from ERSC 3P26, 3P33, 3P85, 3V90-99, 4F91, 4P15, 4P26, 4P28, 4P31, 4P61 and 4P80
- the Humanities context credit or Social Sciences context credit not taken in year 1

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### BSc with Major Program

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This program differs from the Honours program in that honours standing is not required for entry into year 4, (see program note 6).

#### Earth Sciences

*Year 1*

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit

*Year 2*

- ERSC 2P03, 2P05, 2P12, 2P16, 2P17, 2P21 and 2P22
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- WRIT 2P14

*Year 3*

- ERSC 3P01, 3P03, 3P21, 3P24, 3P31 and 3P61
- one ERSC credit numbered 2(alpha)00 to 3(alpha)99
- the Humanities context credit or Social Science context credit not taken in year 1

*Year 4*

- ERSC 3P99
- three and one-half credits from ERSC 3P94, 3P98, 3V90-3V99, 4P01, 4P10, 4P16, 4P22, 4P52, 4P61
- one elective credit (see program notes 1 and 7)

#### Environmental Geoscience

*Year 1*

- ERSC 1F01
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit (see program note 5)

*Year 2*

- ERSC 2P03, 2P05, 2P09, 2P16, 2P17 and 2P21
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99
- PHYS 1P21 or 1P91 (recommended)

- one of PHYS 1P22, 1P23, 1P92, 1P93 (recommended)
- WRIT 2P14

*Year 3*

- ERSC 3P01, 3P03, 3P24, 3P25 3P31, 3P36, 3P61 and 3Q99
- the Humanities context credit or Social Science context credit not taken in year 1

*Year 4*

- Four credits from ERSC 3P26, 3P33, 3P85, 3V90-3V99, 4P15, 4P26, 4P28, 4P31, 4P61, 4P80
- one elective credit (see programs 1 and 7)

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### Pass Program

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Satisfactory completion of the first three years of a twenty credit program entitles a student to apply for a Pass degree.

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### Concurrent BSc/BEd

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The Department of Earth Sciences and the Faculty of Education co-operate in offering a Concurrent BSc Integrated Studies (Pass)/BEd program for students interested in teaching mathematics or science at the Junior/Intermediate level (grades 4-8). Refer to the Education-Concurrent BSc Integrated Studies (Pass)/BEd Program listing for additional information.

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### Combined Major Program

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The Department of Earth Sciences, in cooperation 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 Science context credit

*Year 2*

- ERSC 2P03 and 2P16
- two credits from BIOL 2F01, 2P05, 2P92, 2P94, 2P96, 2P98, 2Q04
- one ERSC credit numbered 2(alpha)00 to 2(alpha)99
- the Humanities context credit or Social Science context credit not taken in year 1

*Year 3*

- Two ERSC credits numbered 2(alpha)00 to 3(alpha)99
- two BIOL credits numbered 2(alpha)90 to 3(alpha)99
- one ERSC or BIOL credit (see program note 3)

*Year 4*

- One and one-half ERSC credits numbered 2(alpha)90 or above
- one and one-half BIOL credits numbered 2(alpha)90 or above
- one of BIOL 4F90 and 4F91 or BIOL 4F92 and one elective credit or ERSC 4F91 and one ERSC credit numbered 3(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
- PHYS 1P21 or 1P22 (recommended)
- PHYS 1P22 or 1P92 (recommended)
- one Humanities context credit or one Social Science context credit

*Year 2*

- ERSC 2P21 and 2P22
- CHEM 2P12, 2P20, 2P32 and 2P42
- one ERSC credit numbered 2(alpha)00 to 2(alpha)99
- the Humanities context credit or Social Science context credit not taken in year 1

*Year 3*

- ERSC 3P31
- CHEM 2P21 and 3P40
- one credit from CHEM 3P20, 3P21, 3P30, 3P31, 3P41, 3P51, 3P53, 3P60
- one and one-half ERSC credits numbered 2(alpha)00 to 3(alpha)99
- one elective credit in CHEM or ERSC (see program note 4)

*Year 4*

- One CHEM credit numbered 2(alpha)90 or above
- one ERSC credit numbered 2(alpha)90 or above
- one of CHEM 4F90 and 4F91, or ERSC 4F91 and one ERSC credit 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.

**Earth Sciences and Geography****Honours***Year 1*

- ERSC 1F01
- GEOG 1F91
- BIOL 1F90
- MATH 1P97
- one Social Science context credit (GEOG 1F90 strongly recommended)
- one-half elective credit

*Year 2*

- ERSC 2P05, 2P11, 2P17 and 2P21
- one of ERSC 2P04, 2P07, 2P09
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99
- GEOG 2P12
- one Humanities context credit

*Year 3*

- ERSC 2P16
- GEOG 3P35 or 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 BIOL, CHEM, COSC, MATH or PHYS (see program note 2)

*Year 4*

- Two ERSC credits numbered 3(alpha)90 or above
- GEOG 4F99
- one GEOG credit numbered 3(alpha)90 or above from group B
- one elective credit (see program notes 1 and 7)

**Pass**

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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**Minor in Earth Sciences**

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Students in other disciplines may obtain a Minor in Earth Sciences by successfully completing the following courses with a minimum 60 percent overall average:

- One credit from ERSC 1F01, 1F90, 1P92, 1P93
- two ERSC credits numbered 2(alpha)00 or above
- one ERSC credit numbered 2(alpha)90 or above

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**Master of Science (MSc) Program**

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Candidates normally require a four year BA or BSc degree, or equivalent, with a minimum B average for admission to the program. Applications are made through the Graduate Studies Office.

Candidates holding a degree without sufficient concentration in the area of the intended Masters degree may be required to complete up to one credit in addition to the regular graduate course requirements. Candidates not holding a 4 year BA or BSc degree, or equivalent, with a B average, will be required to take a qualifying year similar to year 4 before formally enrolling

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for the MSc degree. Candidates may be required to write the Graduate Record Examination and/or a language examination.

Candidates require a minimum of one year of residency and satisfactory completion of a program which must include ERSC 5F90 and two ERSC credits numbered 5(alpha)00 or above. Alternatively candidates may replace up to one-half ERSC 5(alpha)00 or above credit with one-half ERSC credit numbered 4(alpha)00 or above. All candidates are required to present a seminar on the topic of their thesis project before the end of the required residency year.

For details, see the Graduate Calendar or consult the Chair of the department.

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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, environmental science, earth sciences, mathematics or physics beyond grade 11 or equivalent.

Note: students may not register concurrently in ERSC 1F90, 1P92 or 1P93.

Completion of this course will replace previous assigned grade in ERSC 1F90, 1F95, 1P92 and 1P93.

#### 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, glaciation, 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, 1P92 or 1P93. 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 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 in ERSC 1F01, 1F90 and 1F95.

#### ERSC 1P93

##### North America's Parklands: Stories in Stone

Some of the Earth's most spectacular scenery, instructive geologic features and culturally significant places with North America's National, Provincial and State parks. Exploration of our continent's natural history, its dynamic processes and its influence on First Nations societies.

*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 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 (1F95), 1F90, 1P92, 1P93.

Completion of this course will replace previous assigned grade in ERSC 2P32 and 3P10.

#### # ERSC 2P04

##### Introduction to Meteorology

(also offered as ENVI 2P04 and 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, 3 hours per week.*

Restriction: open to ERSC (single or combined), ENVI and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: ERSC 1F01 (1F95), GEOG 1F91 or permission of instructor.

#### \* ERSC 2P05

##### Earth Surface Processes

(also offered as ENVI 2P05 and 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.*

Prerequisite: ERSC 1F01 (1F95), GEOG 1F91 or permission of the instructor.

#### # ERSC 2P07

##### Foundations of Geomatics

(also offered as 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 ERSC (single or combined), ENVI and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01 (1F95), GEOG 1F90, 1F91 or permission of the instructor.

\* ERSC 2P09

**Principles of Biogeography**

(also offered as ENVI 2P09 and 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.*

Prerequisite: one of ERSC 1F01 (1F95) CHEM 1F92 GEOG 1F91 or permission of the instructor.

Note: may not be taken concurrently with BIOL 2P05.

Completion of this course will replace previous assigned grade in BIOL 2P05.

\* 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.*

Prerequisites: ERSC 1F01 (1F95) or GEOG 1F91; MATH 1P98 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.*

Prerequisite: one of ERSC 1F01 (1F95), 1F90, BIOL 1F90, GEOG 1F91.

Completion of this course will replace previous assigned grade 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. Carbonate sediment and rock classification; environments of formation, deposition and distribution in the oceans; carbonate diagenesis and dolomitization. Local field trips and carbonate sedimentology stratigraphy exercise.

*Lectures, lab, 6 hours per week.*

Prerequisite: ERSC 1F01 (1F95) or GEOG 1F91.

Completion of this course will replace previous assigned grade in ERSC 2P10.

\* 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 (1F95) 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 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 (1F95).

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 (2P12).

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 in ERSC 2P32.

# ERSC 3P05

**Geographic Information Systems**

(also offered as 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 Idrisi32.

*Lectures, lab, 5 hours per week.*

Restriction: open to ERSC (single or combined) and GEOG (single or combined) 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 using Idrisi32.

*Lectures, lab, 4 hours per week.*

Restriction: open to ERSC (single or combined) and GEOG (single or combined) 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

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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 2P10.

Completion of this course will replace previous grade in ERSC 2P03 and 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) and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: ERSC 2P04 or permission of the instructor.

Completion of this course will replace previous assigned grade 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 2P16 (2P10), 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.

Restriction: students must have a minimum of 10.0 overall credits and permission of the department.

Prerequisite: one of ERSC 1F01 (1F95), 2P09, 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 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 3P61

#### Groundwater Geology

Principles and fundamentals of Groundwater geology; Hydrologic cycle and groundwater basins; groundwater movement; hydraulic methods, testing and applications; groundwater resource management. Local field work-installation/testing of monitoring wells/piezometers.

*Lectures, lab, 6 hours per week.*

Prerequisites: ERSC 1F01 (1F95) and MATH 1P97.

### # 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) and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: one of ERSC 1F01 (1F95), 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 Idrisi32 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) and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: ERSC 3P05.

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: consult the Department regarding permission to register. Students must have a minimum of 13.0 overall credits.

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.

*Lectures, lab, 5 hours per week.*

Restriction: consult the Department regarding permission to register.

Prerequisite: ERSC 2P17 (2P12).

ERSC 3V90-3V99

**Special Topics in Earth Sciences**

Selected issues in Earth Sciences on the basis of faculty expertise and student interest.

Restriction: consult the Chair and supervising instructor regarding permission to register. Open to ERSC (single or combined) majors with a major average of 70 percent and a minimum of 10.0 overall credits.

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 (2P01).

# 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 data 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.*

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 2P16 (2P10) or 2P31.

ERSC 4P15

**Photogeology and Remote Sensing**

Analysis and geologic interpretation of aerial photography, including remote sensing data from airborne and satellite imagery. Temporal evolution and denudation of land masses in relation to tectonic, sedimentologic and climatic changes.

*Lectures, seminar, lab, 5 hours per week.*

Prerequisite: one of ERSC 3P24, 3P25, 3P26, 3P36.

Completion of this course will replace previous grade in ERSC 3P43.

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 4P52

#### **Industrial Mineral Deposits and Coal**

Industrial rocks, minerals and aggregates; geologic origin, occurrence and mutual relationships; classification, extraction, preparation and uses; properties, classification and origin of coal; structural control, exploitation of ore deposits, grade and tonnage calculation.

*Lectures, lab, seminar, field trip, 6 hours per week.*

Prerequisite: ERSC 3P98.

ERSC 4P61

#### **Surface Hydrology**

Distribution and variation of run-off, recurrence of floods and droughts; fluvial processes and sediment transport; hydrologic and water management techniques; computer models for hydrologic and sediment analysis.

*Lectures, lab, local field trip, 5 hours per week.*

Prerequisite: ERSC 2P05 or 2P16 (2P10) or 2P31 or permission of the instructor.

\* ERSC 4P80

#### **Dendrochronology**

(also offered as BIOL 4P80 and GEOG 4P80)

Principles and use of dendrochronology to study forest dynamics, geomorphic events and paleoenvironmental change; use of tree growth in the study of climate and environmental factors; measurement and statistical analysis of tree growth records.

*Lectures, lab, local field trip, 6 hours per week.*

Prerequisite: one of ERSC 2P09, BIOL 2P05, 2Q04.

### **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

Anthony J. Ward

## Professors Emeriti

Maurice F. Perkins, Gabriel Temkin, Isidore J. Masse

## Professors

Robert W. Dimand, Mohammed H. Dore, Diane P. Dupont, Zisimos Koustas, Joseph Kushner, Felice F. Martinello, Steven J. Renzetti, Roberta E. Robb (on leave), Lewis A. Soroka

## Associate Professors

David R. F. Love, Tomson Ogwang, William Veloce, Anthony J. Ward

## Assistant Professors

Hasan Imam, René Kirkegaard, Lester Kwong, Jean-François Lamarche, Xiaoting Wang

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## General Information

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### Administrative Assistant

Karen Phillips

905-688-5550, extension 4697

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Economics studies the allocation of scarce resources to produce goods and services and the distribution of those goods and services across individuals. Economics is divided into two parts: microeconomics, where the focus is on the determination of prices and the allocation of scarce resources among competing uses; and macroeconomics, where the focus is on the levels of utilization of resources, especially the levels of employment, unemployment and inflation. The economic tools are applied to issues in the labour market, industrial organization, international trade, economic development, urban studies, taxation and government expenditure. Other fields, such as money and banking and international payments, apply economic tools to the study of financial markets. The analysis yields 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.

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.

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 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 COSC 1P93, 1P95 or 1P96 as elective credits.

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## Program Notes

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1. ECON 1P91 and 1P92 may be taken concurrently or in either order.
2. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- ECON 1P91 and 1P92 (see program note 1)
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit
- one elective credit

### Year 2

- ECON 2P21, 2P22, 2P90 and 2P92
- one ECON credit
- two elective credits

### Year 3

- ECON 3P21, 3P22, 3P90 and 3P91
- one-half ECON credit
- one-half ECON credit numbered 2(alpha)90 or above
- two 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
- MATH 1P01 or 1P97
- MATH 1P98

## ECONOMICS

- one Humanities context credit
- one Science context credit
- one elective credit

### Year 2

- ECON 0N90, 2P21, 2P22, 2P90 and 2P92
- one ECON credit
- two elective credits

### Year 3

#### Fall Term:

- ECON 3P21, 3P22, 3P90 and 3P91
- one-half elective credit

#### Winter Term:

- ECON 0N01

#### Spring/Summer Terms:

- One-half ECON credit
- one-half 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:

- One ECON credit numbered 2(*alpha*)90 or above
- one-half ECON credit numbered 3(*alpha*)90 or above
- one 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.

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### Pass Program

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### Year 1

- ECON 1P91 and 1P92 (see program note 1)
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit
- one elective credit

### Year 2

- ECON 2P21, 2P22, 2P90 and 2P92
- one ECON credit
- two elective credits

### Year 3.

- ECON 3P21 and 3P22
- one and one-half ECON credits numbered 2(*alpha*)90 or above
- one ECON credit
- one and one-half elective credits

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### Combined Major Program

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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
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit or one Science context credit

### Year 2

- ECON 2P21 or 2P23
- ECON 2P22, 2P90 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- one-half ECON credit
- the Humanities context credit or Science context credit not taken in Year 1

### Year 3

- ECON 3P21, 3P22, 3P90 and 3P91
- ACTG 2P40
- FNCE 3P93
- MKTG 3P24
- OPER 2P91
- one elective credit

### Year 4

- ECON 4P13 and 4P14
- MGMT3P82 and 4P90
- one and one-half ECON credits numbered 2(*alpha*)90 or above
- one-half ACTG, ENTR, FNCE, 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
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit

### Year 2

- ECON 2P21, 2P22 and 2P90
- GEOG 2P10
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P07, 2P13
- one-half ECON credit
- one elective credit

### Year 3

- ECON 3P21, 3P22, 3P90 and 3P91
- GEOG 3P57
- one and one-half GEOG credits numbered 2(*alpha*)90 to 3(*alpha*)99 from group A or C (see Geography department calendar entry)
- one elective credit

### Year 4

- ECON 4P13 and 4P14
- GEOG 4F99
- one GEOG credit numbered 3(*alpha*)90 or above from group A or C (see Geography department calendar entry)

- one ECON credit numbered 2(alpha)90 or above
- one elective credit

Pass

*Year 1*

- ECON 1P91 and 1P92 (see program note 1)
- GEOG 1F90
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit
- one Science context credit

*Year 2*

- ECON 2P21, 2P22 and 2P90
- GEOG 2P10
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P07, 2P13
- one-half ECON credit
- one elective credit

*Year 3*

- ECON 3P21 and 3P22
- GEOG 3P57
- one 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 calendar entry)
- one elective credit

**Economics and Labour Studies**

**Honours**

*Year 1*

- ECON 1P91 and 1P92 (see program note 1)
- LABR 1F90
- MATH 1P01 or 1P97
- MATH 1P98
- one POLI credit numbered 1(alpha)90 to 1(alpha)99 or SOCI 1F90
- one Humanities context credit or one Science context credit

*Year 2*

- ECON 2P21, 2P22 and 2P90
- LABR 2P03, 2P06 and 2P15
- one-half ECON credit
- one-half LABR credit
- the Humanities context credit or Science context credit not taken in year 1

*Year 3*

- ECON 3P21, 3P22, 3P90 and 3P91
- LABR 3P03, 3P06, 3P24 and 3P25
- one elective credit

*Year 4*

- ECON 4P13 and 4P14
- LABR 4F90 or 4F91
- LABR 4F92
- one ECON credit 2(alpha)90 or above
- one elective credit (see program note 2)

Pass

*Year 1*

- ECON 1P91 and 1P92 (see program note 1)
- LABR 1F90
- MATH 1P01 or 1P97
- MATH 1P98
- one POLI credit numbered 1(alpha)90 to 1(alpha)99 or SOCI 1F90
- one Humanities context credit or one Science context credit

*Year 2*

- ECON 2P21, 2P22 and 2P90
- LABR 2F00 and 2P15
- one-half ECON credit
- one-half LABR credit
- the Humanities context credit or Science context credit not taken in year 1

*Year 3*

- ECON 3P21 and 3P22
- LABR 3F00, 3P24 and 3P25
- one ECON credit numbered 2(alpha)90 or above
- one elective credit

**Economics and Mathematics (Honours only)**

*Year 1*

- ECON 1P91 and 1P92 (see program note 1)
- MATH 1P01, 1P02, 1P12 and 1P40
- one Humanities context credit
- one Science 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

*Year 3*

- ECON 3P21, 3P22 and 3P90
- MATH 2F40, 3P81 and 3P82
- one-half ECON credit numbered 2(alpha)90 or above
- one elective credit

*Year 4*

- ECON 4P13 and 4P14
- MATH 3P72, 3P73, 4P81 and 4P82
- one-half ECON credit numbered 2(alpha)90 or above
- one-half ECON credit numbered 3(alpha)90 or above
- 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
- one and one-half ECON credits
- MATH 1P97 and 1P98

**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.

## ECONOMICS

### 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 2P09

#### Canadian Economic History

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.

### ECON 2P10

#### United States Economic History

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.

### ECON 2P11

#### European Economic History

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.

### \* 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 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.*

Prerequisite: ECON 1P91.

Note: MATH 1P97 is strongly recommended. Completion of this course will replace previous assigned grade 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.

Prerequisite: ECON 1P91.

Note: this course is primarily designed for students in the Business Administration program. MATH 1P97 is strongly recommended.

Completion of this course will replace previous assigned grade in ECON 2P21.

### \* ECON 2P28

#### Economics of the Environment (also offered as ENVI 2P28)

Environmental problems and natural resource management. Real world applications and case studies including sustainable development, pollution, taxes, the crisis in Canada's commercial fisheries and valuing improvements to environmental quality.

*Lectures, 3 hours per week.*

Restriction: open to students with a minimum of 4.0 overall credits.

### \* ECON 2P41

#### Economics of Tourism and Leisure Activities (also offered as RECL 2P41 and TOUR 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 students with a minimum of 4.0 credits. Not open to ECON (single or combined) majors, BBE or ENEC students.

### 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 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: permission of the Department.  
Prerequisite: CHSC 2P97, 3P97 or permission of the instructor.

Note: 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**

Advanced univariate statistics from conceptual and practical perspectives.

*Lectures, lab, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH and HLSC majors.

Prerequisites: CHSC 2P07 (2Q07) and MATH 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHSC 3Q07, PEKN 3P08, RECL 3Q07, SPMA 3P07 and TOUR 3Q07.

### 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, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH and HLSC 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 and NUSC majors.

Prerequisites: CHSC 2F95 and 2P09 or permission of the instructor.

Completion of this course will replace previous assigned grade in NUSC 3P19.

### 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 and HLSC majors.

Prerequisite: CHSC 2P21.

### # CHSC 3P23

#### **Therapeutic Benefits of Humour**

(also offered as RECL 3P23)

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, seminar, 3 hours per week.*

Prerequisite: CHSC 1F90, RECL 2P11 or permission of the instructor.

### # 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 until date specified in the Registration guide. Students must have a minimum 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date in Registration guide. Contact the Department.

### # 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 until date specified in the Registration guide. Students must have a minimum 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

### 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 and HLSC 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 and HLSC majors with a minimum of 9.0 overall credits, a minimum 75 percent major average and permission 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 majors.

Prerequisite: CHSC 2P27 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHSC 3Q17, PEKN 3P18, RECL 3Q17, SPMA 3P17 and TOUR 3Q17.

### 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 and HLSC majors until date specified in the Registration guide.

Prerequisite: CHSC 1F90 or LABR 1F90 (1P91 and 1P92).

### 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 and HLSC majors with a minimum 9.0 overall credits.

Prerequisite: CHSC 2P07 (2Q07).

## COMMUNITY HEALTH SCIENCES

### # 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 and 2P05 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 and HLSC majors until date specified in the Registration guide.

Prerequisite: CHSC 1F90.

### CHSC 3P59

#### **Diversity and Health**

Exploration of conceptual and theoretical frameworks for understanding issues of diversity in health, such as gender, culture, ethnicity and disabilities.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH and HLSC majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisite: CHSC 1F90.

### \* CHSC 3P80

#### **The Health of Children**

(also offered as CHYS 3P80)

Biological, psychological and sociological determinants of health during childhood. A wellness perspective will be emphasized.

*Lectures, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH, CHYS BA (Pass)/BEd, CHYS (single or combined) and HLSC 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 and HLSC 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. Practical experience in cardiac rehabilitation programming is a component of the course.

*Lectures, lab, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH and HLSC 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. Students must have CPR.

### 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 and HLSC majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisites: CHSC 1F90; COSC 1P95 or MATH 1P98.

Co-requisite: CHSC 3P50.

### CHSC 3P93

#### **Advanced Nutrition**

Basic nutrition principles and issues in clinical nutrition. Nutrition assessments, computerized dietary analysis, sport supplements and ergogenic aids, lifestyle nutrition and disease prevention.

Restriction: open to BMED, CHSC, CHLH and HLSC majors until date specified in Registration guide. Students must have a minimum 9.0 overall credits.

Prerequisite: CHSC 2P91.

### 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.*

Prerequisites: CHSC 1F90 and 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 and NUSC 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 and HLSC 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, seminar, 1 hour per week in alternate weeks.*

Restriction: open to BMED, CHSC, CHLH and HLSC 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. Required biweekly seminar will be scheduled by the department.

### CHSC 4P07

#### **Secondary Data Analysis**

Utilization of large population surveys and census data emphasizing active (experiential) learning.

*Lectures, lab, 3 hours per week.*

Restriction: open to BMED, CHSC, CHLH and HLSC 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 and NUSC majors.



Prerequisites: CHSC 2F95, 2P09 and 3P19 or permission of the instructor.

# CHSC 4P26

**Advanced Seminar in 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).

Prerequisite: one of CHSC 3P26, 3P27 or permission of the instructor.

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 and HLSC 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 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 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 and HLSC majors with a minimum of 13.5 overall credits.

CHSC 4P59

**Sexual Health Education**

Development of educational curriculum or educational materials in human sexuality.

Controversial issues and aspects in sexual health education.

*Lectures, seminar, 3 hours per week.*

Restriction: approval to year 4 (honours).

Prerequisites: CHSC 2P50, 2P51 and 3P50.

CHSC 4P60

**History of Disease in Society**

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 and HLSC 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 and HLSC majors with a minimum 13.5 overall credits and a minimum 75 percent major average.

Prerequisites: CHSC 3F20, 3P50 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 and HLSC majors with approval to year 4 (honours).

Prerequisites: CHSC 2F95 and 2P09.

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 and HLSC majors with approval to year 4 (honours).

Prerequisite: CHSC 2P07 (2Q07) or MATH 1P98.

# Computer Science

## Chair

Jonathan Radue  
David Hughes (as of July 1, 2005)

## Professors

Ivo Düntsch, Brian Ross

## Associate Professors

Jerzy Barchanski, Sheridan Houghten, David Hughes, Thomas Jenkyns, David McCarthy, Ke Qiu, Jonathan Radue, Michael Winter, Vladimir Wojcik

## Assistant Professor

Beatrice Ombuki

## Adjunct Professors

Günther Gediga, Jack Miller

## Instructor

David Bockus

## Student Support Co-ordinator

Gordon Dunkley

## Course Co-ordinator / Mentor

Baoling Bork

## Director, Co-operative Programs

Cindy Dunne

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## General Information

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### Administrative Assistant

TBA

905-688-5550, extension 3513

Mackenzie Chown, J314

<http://www.cosc.brocku.ca>

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. There are two concentrations available as part of an honours program: 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, the Information Technology stream in the Department of Communications, Popular Culture and Film and Computing and Network Communications.

*See relevant calendar entries for a listing of program requirements.*

### 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).

Admission to the Computer Science Co-op program is on the basis of marks, a review of personal résumés and employer availability. An interview may be required. The normal requirement is a minimum 80 percent average on 6 OACs including two OAC Mathematics including calculus (with a minimum 75 percent grade on at least one mathematics) and one OAC English. As this is a limited enrolment program admission is not guaranteed by attainment of the minimum requirement. The Computer Science Co-op Admission Committee will facilitate admissions decisions. Prospective students with lower grades may be accepted. For additional information, prospective students should contact the Co-op Office.

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 student 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 which 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 2 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) an 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, 2P02, 2P32, 2P90 and one or more of COSC 2P12, 2P13, 2P89. The Computer Science Internship Admissions Committee will make admission decisions.

### 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 a laboratory of Silicon Graphics O2 UNIX work stations (J327 served by a 16 CPU Silicon Graphics Origin 2000 server. The department has three microcomputer laboratories: D205, J301 and J310 containing Pentium PCs. Students also have access to scanners, a CD-ROM recorder, video cards, digitizers, robot arms, a mobile robot, a robot vision system, transputer computer graphics software (Bryce, Pose

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.

ECON 2P91

#### **Decision Analysis**

Linear programming, decision trees using Bayes theorem, expected value under uncertainty. Multiple regression analysis with applications to forecasting and business decisions. Dynamic programming simulation.

*Lectures, lab, 4.5 hours per week.*

Restriction: not open to ECON (single or combined), BBE, ENEC and INPE majors.

Prerequisites: ECON 1P91, 1P92, ITIS 1P97, MATH 1P97 and 1P98.

Note: combined Economics and Business majors may register. Contact the Economics Department.

ECON 2P92

#### **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, 2P22 and 2P90.

\* ECON 2P94

#### **Canadian Economic Issues**

(also offered as LABR 2P94)

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 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**

Financial markets, understanding interest rates, portfolio choice, the capital asset pricing model, the behaviour of interest rates, the risk and term structure of interest rates, the foreign exchange market. Economic analysis of banking structure, the banking firm and the management of financial institutions.

*Lectures, 3 hours per week.*

Prerequisites: ECON 2P21 or 2P23; ECON 2P22.

ECON 3P04

#### **Money and Banking II**

Financial derivatives and risk management. Central banking and the conduct of monetary policy, the demand for money, the transmission mechanisms of monetary policy, money and inflation, theory of rational expectations and efficient capital markets.

*Lectures, 3 hours per week.*

Prerequisites: ECON 2P21 or 2P23; ECON 2P22.

Note: ECON 3P03 is recommended.

ECON 3P06

#### **Industrial Organization I**

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 3P07

#### **Comparative Economic Systems I**

Alternative economic systems, including centrally directed economies. Emphasis on planning as a substitute for markets.

*Lectures, 3 hours per week.*

Prerequisite: ECON 2P21 or 2P23.

ECON 3P08

#### **Comparative Economic Systems II**

Changing economic systems: globalization and economic integration (NAFTA, the European Union); the transition from plan to market in Central and Eastern Europe, the former Soviet Union, and China; the Japanese economy.

*Lectures, 3 hours per week.*

Prerequisite: ECON 2P21 or 2P23.

Note: ECON 3P07 is recommended.

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.

## ECONOMICS

ECON 3P15

### Public Sector Economics: Taxation

An 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 3P16

### Industrial Organization II

The evolution of competition policy in Canada and the application of the present Competition Act to effect market structure, market conduct and market performance. Other policy approaches such as public regulation and public ownership.

*Lectures, 3 hours per week.*

Prerequisite: ECON 3P06.

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.

Completion of this course will replace previous assigned grade in ECON 2P31.

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.

Completion of this course will replace previous assigned grade in ECON 2P32.

\* 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 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)

Applications of modelling; review of elementary decision theory and subjective probability theory; game theory (Nash equilibrium; two player NZS games; Nash cooperative solution); Shapley value; voting power, selected cases from economics and other applications.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: ECON 3P91 or MATH 2P72 (2P60) or permission of the instructor.

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; ECON 2P90 or MATH 2P81 and 2P82; MATH 1P01 or 1P97 or permission of the instructor.

ECON 3P91

### Mathematical Economics

Application of quantitative techniques to economic theory and business problems. Quantitative techniques include matrix algebra, differential calculus, multivariate optimization without constraints and constrained optimization. Applications include the Leontief input-output model, the matrix representation of the classical least squares model in econometrics, profit and utility maximization, cost minimization, derivation of fiscal and monetary multipliers of nonlinear macroeconomic models, comparative statistics and efficiency wages.

*Lectures, 3 hours per week.*

Restriction: not open to MATH (single or combined) majors or general studies students.

Prerequisites: ECON 2P21 or 2P23; ECON 2P22; MATH 1P01 or 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: ECON 2P90 or 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 (2P31).

#### 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 (2P32).

#### 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 3P90 and 3P91.

#### ECON 3P96

##### **Economic Growth and Business Cycles**

Characteristics of business cycles. Theories attempting to explain the cyclical fluctuation of total output, employment and inflation. Criteria for judging the validity of business cycle theories in explaining actual fluctuations.

*Lectures, 3 hours per week.*

Prerequisites: ECON 2P22 and 2P90.

#### 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 (2P31).

#### ECON 3P98

##### **Economics of Information**

Analysis of 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.

#### 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 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.*

Prerequisites: ECON 3P22 (2P32) 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.*

Prerequisites: ECON 3P21 (2P31) and 3P91 or permission of the instructor.

## 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*  
Merle Richards

*Co-ordinator*  
John Hodson

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## General Information

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*Administrative Assistant*  
Janie Hodson

905-688-5550, extension 3971  
Shaver 105  
<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 Co-ordinator.

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## Admissions

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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.

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## Program Notes

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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.

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## Program A

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• ADED 4F84, 4F85, 4F86, 4F87 and 4F88

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## Programs B and C

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- 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)

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## Certificate in Aboriginal Adult Education

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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

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## Description of Courses

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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

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**Prerequisites and Restrictions**

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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.

AEDE 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.*

Restriction: open to students admitted to Aboriginal Adult Education.

AEDE 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: AEDE 4F84.

AEDE 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: AEDE 4F85.

AEDE 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: AEDE 4F86.

AEDE 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: AEDE 4F87.

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# Aboriginal Adult Education and Bachelor of Education

*Director*  
Merle Richards

*Co-ordinator*  
John Hodson

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## General Information

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*Administrative Assistant*  
Janie Hodson

905-688-5550, extension 3971  
Shaver 105  
<http://www.nativeadult.ed.brocku.ca>

The Tecumseh Centre for Aboriginal Research and Education offers a Bachelor of Education in Aboriginal Adult and 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 in Aboriginal Adult Education 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.

For further information contact the Co-ordinator.

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## Admissions

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Candidates may be admitted with at least Grade 12 standing. Preference will be given to those with some post secondary experience.

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## Program Notes

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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 adult education credits through Brock.

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## Pass Program

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- ABST 2F90 and 2F96
- ADED 4F84, 4F85, 4F86, 4F87 and 4F88
- EDUC 8L09, 8P08, 8P10, 8P11, 8P30, 8P33, 8P48, 8P91, 8P94, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38, 8Y39, 8Y61 and 8Y63
- one Humanities context credit
- one Science context credit
- one Social Science context credit
- two credits numbered 1(*alpha*)00 or above
- three credits numbered 2(*alpha*)00 or above

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## Description of Courses

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See relevant calendar entry for course descriptions.



## Education - Adult Education

*Director*  
Sybil Wilson  
TBA (as of July 1, 2005)

*Co-ordinator*  
Sandra Plavinskis

### General Information

*Administrative Assistant*  
Janie Hodson

905-688-5550, extension 3971  
Shaver 105  
<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 at locations across the province and on-line. For further information contact the 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 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

- 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.
- 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.
- All candidates must take the five adult education credits through Brock.
- 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 4F04, 4F05, 4F06, 4F07 and 4F08

### Programs B and C

- ADED 4F04, 4F05, 4F06, 4F07 and 4F08
- 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 4F04, 4F05, 4F06, 4F07 and 4F08

### 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

## EDUCATION - ADULT EDUCATION

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### Prerequisites and Restrictions

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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.

#### AEDED 4F04

##### **Introduction to Adult Education: Surveying the Field**

Theories and practices of adult education through mainly Canadian authors and video guests. Connections to many contexts of adult education and training.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Note: opportunities for teaching practice and reflecting on experience are provided in practicum activities.

#### AEDED 4F05

##### **Designing Instruction for Adult Learners**

Creation of a detailed plan for an instructional unit using a curriculum development model. Decision-making in the step-by-step process guided by theories and practices of Adult Education.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: AEDED 4F04.

#### AEDED 4F06

##### **Facilitating Adult Learning**

Theories and practices of adult teaching and learning; instructional and evaluation strategies.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: AEDED 4F05.

Note: teaching practicum assignment provides opportunities to put them into practice.

#### AEDED 4F07

##### **Understanding Organizations and Leadership in Adult Education**

Case studies and a series of Community Building activities to develop skills in group problem solving, negotiation, and consensus decision making.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: AEDED 4F06.

#### AEDED 4F08

##### **Moving Forward in Adult Education**

Development of roles as trainers and educators of adults in the future and examination of the larger issues affecting adult education in other parts of the world.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: AEDED 4F07.

# Centre for Continuing Teacher Education

*Director*

Donald H. Dworet

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## General Information

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*Administrative Assistant*

Marie Harris

905-688-5550, extension 3342

Welch Hall 124

The Centre for Continuing Teacher Education offers a consecutive degree program and 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 Pre-service Education. Note: the OCQ replaces the Ontario MET certification to teach in the province, that is, the Ontario Teacher's Certificate (OTC).

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.

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## Admissions

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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 (QECO) 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 QECO insofar as salary evaluation is concerned. Students who have concerns in this regard should contact QECO 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.

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## Program Requirements

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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 III).

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.

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Description of Courses

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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

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Prerequisites and Restrictions

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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, practicum.*

Prerequisite: Ontario Certificate of Qualification.

EDUC 9F02

**Assessment of Teaching Performance**

Counselling, supervision and evaluation of student teacher performance.

*Lectures, seminar, practicum.*

Note: open to certified teachers. Practicum component allows associate teachers to work with student teachers enrolled in the Pre-service program at the Faculty of Education.

EDUC 9F03

**Childhood Education**

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, practicum.*

Note: open to certified teachers.

EDUC 9F07

**Teacher of Native Children**

Focus on teaching strategies for Native children. Development of these strategies is based on the Ontario Curriculum but takes place in a culturally enriched contexts: native arts, history, world view, spirituality, heritage for enhancement of skills and knowledge of teachers of native education.

*Lectures, workshops.*

Note: pre-session requirement. Please contact Department. Additional field trips, studios and ceremonies as required.

EDUC 9F08

**Teaching Writing**

Based on the Ontario Curriculum, this course addresses basic writing conventions and theories within meaningful contexts. Practical teaching strategies address how to develop plans, revise ideas, and edit for style and accuracy. Various writing forms such as narrative, expository, descriptive and poetic will be modelled from rich literature. Participants will explore their own writing and deepen their understanding of this self-reflective process.

*Lectures, seminar.*

EDUC 9F11

**Teaching 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, practicum.*

Restriction: registration open to certified teachers and qualified individuals until date specified in BIRT guide. On and after that date, permission of Department.

Note: open to certified teachers who qualify by successfully completing an oral and written test.

EDUC 9F12

**Teaching 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, practicum.*

Prerequisite: Teaching French as a Second Language I plus one year of teaching experience.

EDUC 9F13

**Teaching French as a Second Language III**

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, practicum.*

Prerequisite: French as a Second Language I 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.

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, practicum.*

Note: open to certified teachers.

EDUC 9F15

**Music (Vocal) Primary/Junior II**

Teaching strategies and materials required for 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, practicum.*

Prerequisite: Music (Vocal) Primary/Junior plus one year of teaching experience.

Note: concentration will be at the junior level.

EDUC 9F16

**Music (Vocal) Primary/Junior III \***

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, choir repertoire and vocal techniques for performance. Examinations and comparison of contemporary approaches to music education.

*Lectures, seminar, practicum.*

Prerequisite: Music (Vocal) Primary/Junior and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F17

**Science Education Primary/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, practicum.*

Note: open to certified teachers.

EDUC 9F18

**Science Education Primary/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, practicum.*

Prerequisite: Science Education Primary/Junior I plus one year of teaching experience.

EDUC 9F19

**Science Education Primary/Junior III**

Leadership skills in organization, administration and supervision of a science education program for the primary/junior level.

*Lectures, seminar, practicum.*

Prerequisite: Science Education Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F21

**Reading I**

Introduction to language processes of reading and writing. Basic assessment procedures and improvement of reading skills.

*Lectures, seminar, practicum.*

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, practicum.*

Prerequisite: Reading I plus one year of teaching experience.

EDUC 9F23

**Reading III**

Advanced instruction in theory and practice of reading instruction; design and implementation of reading programs.

*Lectures, seminar, practicum.*

Prerequisite: Reading II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F24

**Design and Technology I**

Laboratory-centred activity on material and processes; analysis of curri-cultheory as it applies to elementary school programs. Topics

include materials and matter, applied design, structures and mechanisms and implementation of elementary technology programs.

*Lectures, seminar, practicum.*

Note: open to certified teachers or permission of the Director.

EDUC 9F25

**Design and Technology II**

Laboratory-centred activity focussing 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, practicum.*

Prerequisite: Design and Technology I.

EDUC 9F26

**Design and Technology III**

Organization and curriculum development as they apply to technology programs and implementation of a technology program focussing 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, practicum.*

Prerequisite: Design and Technology II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F27

**Teacher-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, practicum.*

Note: open to certified teachers or permission of the Director.

EDUC 9F28

**Teacher-Librarianship II**

Practical applications of the role of the teacher-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, practicum.*

Prerequisite: Teacher-Librarianship I plus one year of teaching experience.

EDUC 9F29

**Teacher-Librarianship III**

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, practicum.*

Prerequisite: Teacher-Librarianship II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

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, practicum.*

Note: open to certified teachers.

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, practicum.*

Prerequisite: Environmental Science I plus one year of teaching experience.

EDUC 9F33

**Environmental Science III**

Organization, administration and supervision of environmental science programs; their design, development and implementation in elementary and secondary schools.

*Lectures, seminar, practicum.*

Prerequisite: Environmental Science II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUCATION -  
CONTINUING STUDIES

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, practicum.*

Note: open to certified primary grade teachers.

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, practicum.*

Prerequisite: Primary Education I plus one year of teaching experience.

EDUC 9F39

**Primary Education III**

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, practicum.*

Prerequisite: Primary Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F41

**Physical and Health 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, practicum.*

Note: open to certified teachers.

EDUC 9F42

**Physical and Health 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, practicum.*

Prerequisite: Physical and Health Education Primary/Junior I plus one year of teaching experience.

EDUC 9F43

**Physical and Health Education Primary/Junior III**

Program content and development; current problems, both personal and programmatic and development of leadership skills.

*Lectures, seminar, practicum.*

Prerequisite: Physical and Health Education Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F44

**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, practicum.*

Note: open to certified teachers.

EDUC 9F45

**Physical and Health 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, practicum.*

Prerequisite: Intermediate/Senior I plus one year of teaching experience.

EDUC 9F46

**Physical and Health Education Intermediate/Senior III**

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, practicum.*

Prerequisite: Physical and Health Education Intermediate/Senior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F47

**Attendance Counsellor**

Important aspects of attendance counsellor training program as defined by the OCT guidelines including philosophy of attendance

counsellor training; change agent theory and practice; counselling theory and practicum; developmental psychology; law and education. *Lectures, seminar, practicum.*

Note: open to potential attendance counsellor candidates, practising attendance counsellors, certified teachers, social workers, BEd candidates (limited enrolment).

EDUC 9F48

**Business Studies: Data Processing**

Teaching data processing concepts at the Intermediate/Senior level. Introduction to and practice in spreadsheet, database, word processing, desktop publishing and data communication transfer, in particular on the Internet.

*Lectures, seminar, practicum.*

Note: open to certified teachers.

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, practicum.*

Note: open to certified teachers. Familiarity with the Ministry document *The Arts*.

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, practicum.*

Prerequisite: Visual Arts I plus one year of teaching experience.

EDUC 9F53

**Visual Arts III**

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, practicum.*

Prerequisite: Visual Arts II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

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, practicum.*

Note: open to certified junior level teachers or those with credit in Junior Basic Curriculum and Instruction.

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, practicum.*

Prerequisite: Junior Education I plus one year of teaching experience.

EDUC 9F59

**Junior Education III**

Leadership skills involved in professional development of teachers, principles of curriculum construction and diagnosis and remediation of learning difficulties.

*Lectures, seminar, practicum.*

Prerequisite: Junior Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F61

**Computers in the Classroom 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.

*Lectures, seminar, practicum.*

Note: open to certified teachers.

Completion of this course will replace previous assigned grade in 9Y01 - 9Y22.

EDUC 9F62

**Computers in the Classroom II**

Further development of computer literacy skills; instruction and practice in evaluating software and designing instructional materials to enhance learning.

*Lab.*

Prerequisite: Computers in the Classroom I plus one year of teaching experience.

Completion of this course will replace previous assigned grade in 9Y01 - 9Y22.

EDUC 9F63

**Computers in the Classroom III**

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: Computers in the Classroom II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

Note: major project involves creation and delivery of professional development materials. Online sessions will be included.

Completion of this course will replace previous assigned grade in EDUC 9Y01 - 9Y22.

EDUC 9F64

**Guidance I**

Counselling, consultation, instruction and program design.

*Lectures, seminar, practicum.*

Note: 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, practicum.*

Prerequisite: Guidance I plus one year of teaching experience.

EDUC 9F66

**Guidance III**

Implementation of program and leadership, and change in school.

*Lectures, seminar, practicum.*

Prerequisite: Guidance II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

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, practicum.*

Note: 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, practicum.*

Prerequisite: English as a Second Language/English Language Development I.

EDUC 9F69

**English as a Second Language/English Language Development III**

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, practicum.*

Prerequisite: English as a Second Language/English Language Development II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

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, practicum.*

Note: open to certified teachers.

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, practicum.*

Prerequisite: Co-operative Education I plus one year of teaching experience.

EDUC 9F73

**Co-operative Education III**

Organizing and leading workshops in co-operative education; planning, co-ordinating and implementing co-operative education programs (including in-school and out-of-school components) at the school and board level.

*Lectures, seminar, practicum.*

EDUCATION -  
CONTINUING STUDIES

Prerequisite: Co-operative Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

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, practicum.*

Note: open to all teachers.

EDUC 9F75

**Dramatic Arts II**

Advanced consideration of preparation and evaluation of courses in dramatic arts.

*Lectures, seminar, practicum.*

Prerequisite: Dramatic Arts I plus one year of teaching experience.

EDUC 9F76

**Dramatic Arts III**

Organizing and teaching workshops in dramatic arts: planning, implementing and evaluating dramatic arts programs.

*Lectures, seminar, practicum.*

Prerequisite: Dramatic Arts II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F77

**Junior Basic Curriculum and Instruction**

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, practicum.*

Prerequisite: an undergraduate degree and valid certification to teach in Ontario.

Note: 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

**Primary Basic Curriculum and Instruction**

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, practicum.*

Prerequisite: an undergraduate degree and valid certification to teach in Ontario.

Note: for teachers who are seeking qualification in an additional area of concentration in the primary division (Ont. 184/97, Section 28 and 29).

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, practicum.*

Note: open to certified teachers.

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, practicum.*

Prerequisite: Mathematics Primary/Junior I plus one year of teaching experience.

EDUC 9F86

**Mathematics Primary/Junior III**

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, practicum.*

Prerequisite: Mathematics Primary/Junior II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

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, practicum.*

Note: open to certified intermediate grade teachers.

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, practicum.*

Prerequisite: Intermediate Education I plus one year of teaching experience.

EDUC 9F89

**Intermediate Education III**

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, practicum.*

Prerequisite: Intermediate Education II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

EDUC 9F91

**Business Studies: Entrepreneurship Studies**

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, practicum.*

EDUC 9F92

**Business Studies: Entrepreneurship Studies I**

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, practicum.*

Prerequisite: Business Studies Entrepreneurship Studies I plus one year of teaching experience.

EDUC 9F93

**Business Studies: Entrepreneurship Studies III**

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 material. Advanced study of entrepreneurship literature.



and research as well as role of entrepreneurship in the economy.

*Lectures, seminar, practicum.*

Prerequisite: Business Studies: Entrepreneurship Studies II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

## SPECIAL EDUCATION

To be recommended to the Ontario College of Teachers for Special Education I, candidates must complete EDUC 9F97; for Special Education II, EDUC 9F98; for Special Education III, EDUC 9F99. Students with previous credits in Special Education should consult the Director regarding their further studies.

### EDUC 9F97

#### Special Education Part 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, practicum.*

### EDUC 9F98

#### Special Education Part 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, practicum.*

Prerequisite: Special Education Part I plus one year of teaching experience.

### EDUC 9F99

#### Special Education Part 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, practicum.*

Prerequisite: Special Education Part II and proof of appropriate regulatory experience required by Ministry of Education Regulation 184/97.

## TECHNOLOGICAL EDUCATION

### EDUC 9G00

#### Communications Technology: Basic

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, lab.*

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

### EDUC 9G10

#### Communication Technology: Advanced

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, lab.*

Prerequisite: Communications Technology: Basic and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose

Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

Completion of this course will replace previous assigned grade in EDUC 8R03.

### EDUC 9G15

#### Technological Design: Basic

Variety of design processes applicable in solving any technological challenge or problem. It 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 Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

### EDUC 9G16

#### Technological Design: Advanced

In-depth study of a variety of design processes applicable in solving any technological challenge or problem. It builds on and forms a continuum with grades 1 to 8 science and technology and grade 9 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 Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

CENTRE FOR CONTINUING  
TEACHER EDUCATION

EDUC 9G20

**Construction Technology: Basic**

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, lab.*

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G30

**Construction Technology: Advanced**

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, lab.*

Prerequisite: Construction Technology: Basic and an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

Completion of this course will replace previous assigned grade in EDUC 8R09.

EDUC 9G40

**Manufacturing Technology: Basic**

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, lab.*

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G60

**Transportation Technology: Basic**

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, lab.*

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G80

**Services Technology: Basic**

Overview of services field. Teaching strategies required for planning, operation and development of services and technologies in hospitality, home maintenance, forestry, agriculture, entrepreneurship and small business operations.

*Lectures, seminar, lab.*

Prerequisite: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G85

**Hospitality Services: Basic**

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 Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G86

**Hospitality Services: Advanced**

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: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G87

**Personal Services: Basic**

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 qualification at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim

Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

EDUC 9G88

**Personal Services: Advanced**

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: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating initial qualifications at the intermediate and senior divisions in Technological Studies. For applicants whose Ontario Certificate of Qualification or Interim Certificate of Qualification does not indicate intermediate and senior divisions in Technological Studies, evidence of at least five years of wage-earning experience related to the subject for which qualification is sought (pertinent education may substitute for some wage-earning experience).

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, lab.*

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 studies..

EDUC 9M00-9M09

**Intermediate Basic Curriculum and Instruction**

Basic strategies for teaching at the intermediate division. Overview of current principles of student development and learning, curriculum development and implementation for the intermediate level.

*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: the exception being Drama, which does not require credits in the teachable subject area.

(9M00) Language Arts (English)

(9M01) Mathematics

(9M02) Science

(9M03) History

(9M04) Geography

(9M07) Physical Education

(9M08) French

(9M09) Drama

EDUC 9M20-9M29

**Senior Basic Curriculum and Instruction (First Teachable)**

Basic strategies for teaching at the senior division. Overview of current principles of student development and learning, curriculum development and implementation for the senior level.

*Lectures, seminar, practicum.*

Prerequisites: an acceptable undergraduate degree with a major of at least five credits in the teachable subject area and valid certification endorsed at the primary, junior or intermediate level.

Note: 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

(9M23) History

(9M24) Geography

(9M25) Computer Science

(9M26) Individual and Society

(9M27) Physical Education

(9M28) French

(9M29) Drama

EDUC 9M30-9M39

**Senior Basic Curriculum and Instruction (Second Teachable)**

Basic strategies for teaching at the senior division. Overview of current principles of student development and learning, curriculum development and implementation for the senior level.

*Lectures, seminar, practicum.*

Prerequisites: an acceptable undergraduate degree with at least three credits in the teachable subject area and valid certification endorsed at the senior level.

Note: 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.

(9M30) English

(9M31) Mathematics

(9M32) Science

(9M33) History

(9M34) Geography

(9M35) Computer Science

(9M36) Individual and Society

(9M37) Physical Education

(9M38) French

(9M39) Drama

EDUC 9M50-9M59

**Honours Specialist: Senior Division**

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, practicum.*

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.

(9M50) English

(9M51) Mathematics

(9M52) Science

(9M53) History

(9M54) Geography

(9M55) Computer Science

(9M56) Individual and Society

(9M57) Physical Education

(9M58) French

(9M59) Drama

CENTRE FOR CONTINUING  
TEACHER EDUCATION

EDUC 9P99

**Program Measurement and Evaluation**

Measurement and evaluation of program and student achievement with a focus 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, practicum.*

Note: open to teachers and administrators.  
This course does not carry Ontario College of Teachers credit.

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.*

Prerequisite: permission of the Director.

# Education - Graduate and Undergraduate Studies in Education

## Chair

Coral Mitchell

## Professors

Terrance Boak, Susan Drake, Michael Kompf, John Novak, Patrick O'Neill, Alan Wheeler, Vera Woloshyn

## Associate Professors

Sandra Bosacki, Michelle McGinn, Coral Mitchell, Jonathan Neufeld, Michael Owen, Susan Tilley, Rosemary Young

## Assistant Professors

Ann-Marie DiBiase, Renée Kuchapski, Xiaobin Li, Dolana Mogadime, Alice Schutz, Mary-Louise Vanderlee

## Lecturers

Denise Paquette-Frenette, Andrew Short

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## General Information

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### Administrative Assistants

Lynn Duhaime  
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905-688-5550, extension 3340/3082

Welch Hall 127

<http://www.ed.brocku.ca/Departments/grad/>

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 three areas of specialization
- To engage in research activities that enhance understanding of teaching/learning, curricular, or administrative processes
- 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 1F90, 1F95, 2F01, 2P65, 3F00, 3F01, 3P40, 3P45, 3P50, 3P52, 3P60, 4P01, 4P02, 4P03, 4P05, 4P15 and 4P25.

### 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 Child and Youth Studies (Pass)/BEd (Primary/Junior)
- Education - Concurrent BA Integrated Studies (Honours)/BEd (Junior/Intermediate)
- Education - Concurrent BPhEd (Honours)/BEd (Intermediate/Senior)
- Education - Concurrent BPhEd (Honours)/BEd (Primary/Junior)
- Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior)
- Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate)
- Education - Concurrent BSc Integrated Studies (Pass)/BEd (Junior/Intermediate)

### Graduate Programs

The Faculty of Education offers a Master of Education degree in Curriculum Studies; Studies in Teaching and Learning; Organizational and Administrative Studies; Integrated Studies. 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: Curriculum Studies, Studies in Teaching and Learning, Organizational and

Administrative Studies in Education, and Integrated Studies. 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, 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 or any of the participating universities in accordance with the approved plan.

The regulations governing the preparation of theses and conduct of examinations will be of 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 matter, the regulations of the institution at which the student is registered will prevail.

Additional information on this program is available from the Graduate Calendar.

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## Course Descriptions

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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

## GRADUATE AND UNDERGRADUATE STUDIES IN EDUCATION

### 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, 3 hours per week.*

#### EDUC 1F95

##### Introduction to Foundations of Education

Historical, philosophical, sociological and psychological dimensions of formal schooling are explored within a Canadian educational context.

*Lectures, seminar, 3 hours per week.*

Note: students admitted to BA (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) take this course in their first year. BA(Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior) and BPhEd (Honours)/BEd (Intermediate/Senior) students must have a minimum of 5.0 overall credits.

#### \* EDUC 2F01

##### School Learning

(also offered as CHYS 2F01)

Psychological processes involved in learning in a school setting. Cognitive theories of learning applied to examples in each of the major school subject areas with emphasis on the specific nature of the learning associated with each subject. Topics may include individual differences and problems in evaluating school learning.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CHYS 1F90 or PSYC 1F90.

Note: BA CHYS (Pass)/BEd (Primary/Junior) and BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) students must have a minimum of 10.0 overall credits.

#### EDUC 2P65

##### 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.*

Note: BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 5.0 overall credits.

Completion of this course will replace previous assigned grade 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.*

Note: BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BA CHYS (Pass)/BEd (Primary/Junior) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 10.0 overall credits.

Completion of this course will replace previous assigned grade 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.*

Note: BA CHYS (Pass)/BEd (Primary/Junior) and BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) students must have a minimum of 10.0 overall credits.

#### 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.*

Prerequisite: CHYS 2F10.

#### EDUC 3P45

##### Language and Literacy Development

Language development in relation to the curriculum focussing on speech perception,

grammar, word meaning, sentence and discourse comprehension, pragmatics, and social cultural factors, including media literacy and second language learning.

*Lectures, seminar, 3 hours per week.*

Note: BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 10.0 overall credits.

#### \* EDUC 3P50

##### Focus on 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.*

Prerequisite: CHYS 2F10.

Note: BA CHYS (Pass)/BEd (Primary/Junior) students must have a minimum of 10.0 overall credits.

#### \* EDUC 3P52

##### Focus on 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.*

Prerequisite: EDUC 3P50.

Note: enrolment limited to 25 students to be determined by academic standing. Students will be involved in a field placement working with young children in a community setting. Students must have completed a satisfactory criminal background check. School Boards and preschools require a background screening prior to having direct contact with students.

#### # 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.*

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.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated (Pass)/BEd (Junior/Intermediate) students with a minimum of 15.0 overall credits until date specified in the BIRT guide.

Note: BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated (Pass)/BEd (Junior/Intermediate) students must have a minimum of 15.0 overall credits.

EDUC 4P02

**Student Assessment**

Enhancement of prospective teachers' skills in the area of measurement and evaluation. Types, purposes and interpretations of standardized tests and issues and concerns related to testing and measurement. Review of authentic or alternative assessment and classroom, school and regional evaluation policies.

*Lectures, seminar, 3 hours per week.*

Note: BA (Honours)/BEd (Intermediate/Senior), BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BSc (Honours)/BEd (Intermediate/Senior) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade 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 individuals responses.

*Lectures, seminar, 3 hours per week.*

EDUC 4P05

**Higher-Level Thinking for the Humanities and Social Sciences**

Instructional strategies, materials, and evaluation procedures fostering students' reasoning; application to examples and problems in curriculum subject areas.

*Lectures, seminar, 3 hours per week.*

Note: BA Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 15.0 overall credits.

EDUC 4P15

**Research on Teaching**

How educational research has contributed to the development of teaching.

*Lectures, seminar, 3 hours per week.*

EDUC 4P25

**Literacy in Mathematics, Sciences and the Arts**

Understanding of and appreciation for the foundations of each area of study.

Note: BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 15.0 overall credits. BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior) and BSc (Honours)/BEd (Intermediate/Senior) students must have a minimum of 20.0 overall credits.

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 Pre-service program of the Faculty of Education at Brock University. For additional information contact the Pre-service Department, Faculty of Education.

Completion of this course will replace previous assigned grade in SCIE 1P10.

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) and BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) students with a minimum of 9.0 overall credits.

Note: school-based practicum is required. For additional information contact the Director of Concurrent Education, Faculty of Education. Completion of this course will replace previous assigned grade in SCIE 3P91.

# Education - Native Teacher Education

## *Director*

Merle Richards

## *Co-ordinator*

Romaine Bomberry

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## General Information

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### *Administrative Assistant*

Lesa Mansfield

905-688-5550, extension 3341

Welch Hall 123

The Tecumseh Centre for Aboriginal Research and Education offers a concurrent program combining a Bachelor of Education in Aboriginal Adult Education and a Bachelor of Education degree for students interested in teaching at the Primary/Junior level (grades K-6). As well the Centre offers two certificate programs to prepare Native elementary school teachers.

The concurrent Bachelor of Education in Aboriginal Adult Education and Bachelor of Education 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.

*Please consult the relevant entries for a listing of courses and program requirements.*

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 concurrent Bachelor of Education in Aboriginal Adult Education and Bachelor of Education program will receive a Bachelor of Education in Aboriginal Adult Education 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.

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:

Aboriginal candidates who hold an undergraduate degree may apply to the regular Pre-service Education 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.

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## Ontario College of Teachers Criminal Records Screening Policy

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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 practise 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.

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## Admissions

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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.

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## Certificate Program

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### Primary/Junior Certificate Program

- EDUC 8L09, 8P08, 8P10, 8P11, 8P30, 8P33, 8P48, 8P91, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38, 8Y39, 8Y61 and 8Y63
- EDUC 8P35 or 8P94



Native as a Second Language Certificate Program

•EDUC 8P08, 8P10, 8P11, 8P33, 8P91, 8P93, 8P94, 8P96, 8P97, 8P98, 8P99

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Description of Courses

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See relevant calendar entry for course descriptions.

## Education - Pre-service Education

### *Chair*

Sheila M. Bennett

### *Professors Emeriti*

Ralph D. Connelly, Anthony S. Mollica

### *Professor*

Merle Richards

### *Associate Professors*

Sharon Abbey, Rodger J. Beatty, Sheila M. Bennett, W. L. Roger Crane, Donald H. Dworet, Anne Elliott, David Hutchison, James W. Kerr, Debra McLaughlan, Ruth L. McQuirter Scott, Adele Thomas

### *Assistant Professors*

Tony DiPetta, Joanne Graham, Jeanne Kentel, Joyce Mgombelo, Susan Sydor

### *Lecturers*

Doug Karrow, Gail Phillips, Peter Vietgen

### *Adjunct Professor*

Eugene Luczkiw

### *Co-ordinators*

Maureen Bergart (French Teaching Specialization Program)  
Lynette Fast (Counselling Groups and Practice Teaching)  
Joanne Graham (Hamilton Campus)  
Robert Moulton (Technological Studies)  
Bob Mroz (Enterprise Education Extended Program)  
Merle Richards (Intermediate/Senior Program)  
Romaine Bomberry (Native Teacher Education Programs)

### *Admissions Counsellor*

Phyllis Stanley

### General Information

#### *Administrative Assistants*

Lesa Mansfield

#### *St. Catharines Campus*

905-688-5550, extension 3341

Welch Hall 123

Nancy Schoeberle

#### *Hamilton Campus*

905-547-3555, extension 3610

1842 King Street East Hamilton

<http://www.ed.brocku.ca/Departments/preserv>

The Department of Pre-service 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 Pre-service Department co-operates with other Departments in offering concurrent programs leading to the conferring of a Bachelor of Arts/Bachelor of Education, Bachelor of Physical Education/Bachelor of Education or Bachelor of Science/Bachelor of Education degree. A BA Honours/BE (Intermediate/Senior), BA Child and Youth Studies Pass/BE (Primary/Junior), BA Integrated Studies Honours/BE (Junior/Intermediate), BPhEd Honours/BE (Intermediate/Senior or Primary/Junior), BSc Honours/BE (Intermediate/Senior), BSc Integrated Studies Honours/BE (Junior/Intermediate) and a BSc Integrated Studies Pass/BE (Junior/Intermediate) program.

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 BE program to teach in secondary schools are assigned to work with specialized subject area tutors from secondary schools. An extension of

the Intermediate/Senior program is offered in partnership with the Institute for Enterprise Education.

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.

Teacher candidates who have successfully completed all required courses in the program for a BE and who have obtained a P1 or P2 in EDUC 8L09 will normally be recommended to the Ontario College of Teachers for an Ontario Certificate of Qualification. Those who receive a P3 in EDUC 8L09 will not be recommended to the Ontario College of Teachers for an Ontario Certificate of Qualification.

An essential part of the Pre-service Education program takes place in schools with at least 11 weeks of observation and teaching (EDUC 8L09). When performance in EDUC 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 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 Handbook for Pre-service Teachers.

Successful candidates of the Pre-service Primary/Junior, Junior/Intermediate and Intermediate/Senior program will be awarded a BE, 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 BE 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 two subjects from one of the following areas: communications, computer, construction, technological design, hospitality services, manufacturing, personal services and transportation technology. Candidates must meet all additional Ontario College of Teachers requirements. Candidates will receive the Design and Technology Additional Qualification for Part I (EDUC 9F24) after completion of the BEd and Part II (EDUC 9F25) after completion of the BEd and one year of successful teaching experience in that field. In addition to satisfactorily completing the methodology course(s), candidates must pass a Technical Proficiency Examination (TPE) at the basic or advanced level. Those who complete the Basic course and the TPE satisfactorily may, upon graduating and receiving the Ontario Certificate of Qualifications, enrol in an Additional Qualifications course, where available, to obtain advanced level certification.

Successful candidates of the Design and Technology program will be awarded a BEd and certification to teach design and technology, plus a second academic subject area, provided they meet the necessary prerequisite requirements. Teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification. In addition to successful completion of a teacher education program, teacher candidates will be required by the Ministry of Education of Ontario to pass an Ontario Teacher Qualifying Test. Candidates will receive the Design and Technology Additional Qualification for Part I (EDUC 9F24), after completion of the Pre-service program, and Part II (EDUC 9F25), after completion of the Pre-service program and one year of successful teaching experience in that field. In addition to satisfactorily completing the methodology course, candidates must pass a Technical Proficiency Examination (TPE) at the basic or advanced level. Those who complete the Basic course and the TPE satisfactorily may, upon graduating and receiving the Ontario Certificate of Qualifications, enrol in an Additional Qualifications course, where available, to obtain advanced level certification.

The Enterprise Education Extended program (the equivalent of 10 university credits) runs from July to April/May. In addition to the

required courses for the Intermediate senior level, candidates complete a certificate program in Enterprise Education, a course in technology, a course in guidance and a practicum in a community or business organization. For details see the brochure, Enterprise Education, an alternate program in teacher education or consult the Brock web site.

Successful candidates of the Enterprise Education Extended program will be awarded a certificate in Enterprise Education and a BEd. Teacher candidates are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification.

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 Pre-service Education program. Successful candidates of the regular Pre-service 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 focussing 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.

The Teacher Education Program for Intermediate/Senior level teachers in independent schools is a limited enrolment program for teacher candidates from selected schools. This pilot program enables candidates to upgrade teaching competencies for certification by the Ontario College of Teachers. The program includes required courses and supervised teaching practice for the Intermediate/Senior level. Participation in the program at the Hamilton Campus begins in the summer and requires part-time attendance for course work and supervised teaching during the fall/winter terms. Attendance for a second summer is required for program completion. For further information regarding the pilot program for Intermediate/Senior level teachers in independent schools, please contact the Chair, Department of Pre-service Education.

For further information regarding the Pre-service program, candidates should contact the Chair, Department of Pre-service 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.

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#### Ontario College of Teachers Criminal Records Screening Policy

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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

## EDUCATION - PRÉ-SERVICE

honesty, integrity and/or suitability to practise 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.

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### Admissions

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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 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 university 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.

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 205 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 orientation and confirmation of registration.

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) proof of freedom from active tuberculosis (Ont. Reg. 184/97);
- d) 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;
- e) 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 Grade 12 advanced, OAC courses or, under the new curriculum, 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, the following university courses or equivalents will be accepted:

MATH 2P52 Principles of Mathematics for Primary and Junior Teachers or other Mathematics course

ESCI 1P10 Principles of Science for Primary and Junior Teachers or other Science context credit

LING 2P10 Fundamentals of English Grammar

GEOG 2P03, 2P06, 2P50 or other one-half Canadian geography credit or one-half Canadian history credit

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/minor programs can be counted in support of teachable subjects.

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 writing/composition/grammar. 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 -1.0 credit or the equivalent must be in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

History -1.0 credit must be in Canadian history. A maximum of 1.0 credit in history or 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.

Physical and Health Education -2.0 credits must be activity-based courses in Physical Education. 1.0 credit in Health Studies is required.

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.

#### 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 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.

Business Studies-Marketing and Merchandising - 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 Management (Information 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 Science - 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 (first language) - For first teachable, a minimum of 1.0 credit in writing/composition/grammar. 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 writing/composition/grammar. 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, 1.0 credit in Canadian geography is required. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

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 - For first and second teachables, 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 - 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 - 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.

Physical and Health Education - For first and second teachable, 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in Health Studies is required.

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.

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.

## EDUCATION - PRE-SERVICE

### 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

There are two streams in this program.

#### 1. *Design and Technology Stream*

Candidates must hold a degree from a recognized university and proven aptitude. The degree must include at least three credits in an academic teachable subject. Candidates also must have a definite interest and experience in technology.

#### *Technological Studies Stream 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 Studies at both the basic and related advanced level or both areas of Technological Studies at the basic level.
- b) One of:
  - i) a combination of education related to the area or areas of technological studies selected as options in the program of professional education beyond that referred to in clause (a) and business or industrial experience in the area or areas of technological studies selected as options in the program of technological studies that totals five years, including at least 2 years of wage-earning experience, no less than 16 months of which is continuous employment
  - ii) at least 3700 hours of wage-earning experience and successful completion of a post-secondary education program acceptable to the College of Teachers that includes at least 24 months of academic studies, if the wage-earning experience and the education program are related to the area or areas of technological studies selected as options in the program of professional education.
- c) A Certificate of Qualification (trade certificate/licence) from the regulated and provincially licenced trades that is associated with manufacturing, transportation, or construction, or equivalent work related

experience for hospitality services, technological design and communications.

Work experience must be supported by sworn statements or official documents on company letterhead from personnel managers and/or other appropriate persons and must specify the nature of the work and experience, and years and months of experience. Experience must be in the subject area or areas in which the teacher candidate wishes to teach.

Self-employed applicants must provide an official sworn statement attesting to the specific nature and duration of their work experience, including a letter from their accountant. They will also be interviewed by which they will be able to demonstrate or prove their competency in a specific technology area.

#### *Technological Studies Stream 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 Studies stream.

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.

### Enterprise Education Intermediate/Senior (Grades 7-12)

Candidates must have at least five credits, averaging 75 percent, in one teachable area (see Clarification of Teachable Subjects for Business Studies) and three credits, averaging 70 percent, in a second teachable subject as listed under program components. During the pre-service year, each candidate will participate in two tutorials, one in each teachable subject.

#### Native Teacher Education

Aboriginal candidates who hold an undergraduate degree may apply to the regular pre-service 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.

### Teacher Education Program for Intermediate/Senior Teachers in Independent Schools

Admission is limited to Intermediate/Senior level teachers from select independent schools, who have completed a first degree acceptable to Brock University with an average of at least B on the best 10 university credits. Only candidates with an undergraduate or advance degree with at least 5.0 credits averaging 75 percent in the first teachable subject and 70 percent in the second teachable subject will be considered. Experience requirements include at least three years of full-time teaching experience at the Intermediate/Senior level and a professional letter of reference from the current employer.

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### Program Components and Requirements

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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 10 weeks of practical experience in schools. Enterprise Education teacher candidates will also complete at least 4 weeks practicum in a community or business organization.

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  
 History  
 Mathematics  
 Music-Vocal  
 Physical and Health Education  
 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/Marketing and Merchandising  
 Business Studies-Information Management (Information Technology)  
 Computer Science  
 Dramatic Arts  
 English (first language)  
 French  
 Geography  
 History  
 International Languages-Italian  
 International Languages-Spanish  
 International Languages-German  
 Mathematics  
 Physical and Health Education  
 Religious Education  
 Science-Biology  
 Science-Chemistry  
 Science-General  
 Science-Physics  
 Visual Arts

Technological Education Methodology courses are offered at the Basic (grades 9 and 10) level and the Advanced (grades 11 and 12) level and consist of 40 contact hours. Students are placed in a Basic or Advanced course according to their technological background and ability. Teaching subjects offered are as follows:

Communications Technology  
 Electronic Communications Technology  
 Graphic Communications Technology  
 Live Communications Technology  
 Computer Technology  
 Computer Engineering Technology  
 Computer and Information Technology  
 Construction Technology  
 Commercial Construction Technology  
 Industrial Construction Technology  
 Recreational Construction Technology  
 Residential Construction Technology

Hospitality Services  
 Food Preparation  
 Tourism  
 Travel and Accommodation  
 Manufacturing Technology  
 Manufacturing Process Technology  
 Process and Production Planning Technology  
 Product Design Technology  
 Personal Services  
 Child Care Services  
 Geriatric Care Services  
 Health Care Services  
 Personal Grooming Services  
 Technological Design  
 Design Systems Technology  
 Problem Solving Technology Process Technology  
 Real World Applications of Technology  
 Transportation Technology  
 Freight Transportation Systems Technology  
 Mass Transit Systems Technology  
 Personal Transportation Technology

Candidates in the Design and Technology stream must take EDUC 8R98 as the first teachable subject and select a second teachable subject from EDUC 8P65-8P90 or EDUC 8F76 (if French as a teachable) (Schedule A of Ont. Reg. 184, Ontario Teacher Qualifications.)

**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, computer, construction, manufacturing, transportation, hospitality services, personal services and technological design. One teachable subject must be a broad-based technology and one must be a related course. One or both subjects taken at the Basic (grades 9 and 10) level and only one may be taken at the Advanced (grades 11 and 12) level, depending on the extent of technological ability as determined by the Program Coordinator.

**Primary/Junior**

•EDUC 8L09, 8P30, 8P33, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38, 8Y39, 8Y61 and 8Y63  
 •EDUC 8F08 or 8F09

**Junior/Intermediate**

•EDUC 8F08, 8L09, 8P20, 8P23, 8Y04, 8Y05, 8Y21, 8Y26, 8Y28, 8Y29, 8Y61 and 8Y63

**Intermediate Senior**

•EDUC 8D10, 8L09, 8P04, 8P06, 8Y04 and 8Y05  
 •one credit from EDUC 8F76, 8P65, 8P66, 8P67, 8P68, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90 (see program note 1)

**Technological Education**

*Phase I*

Taken at the Hamilton Board of Education

•EDUC 9F24 and 9F25

*Phase II*

**Technological Studies stream**

•EDUC 8D10, 8L09, 8P04, 8P06, 8Y04 and 8Y05  
 •one credit from EDUC 8R00-8R67 (see program note 2)

**Design and Technology stream**

•EDUC 8D10, 8L09, 8P04, 8P06, 8R98, 8Y04 and 8Y05  
 •one of EDUC 8F76, 8P65, 8P66, 8P67, 8P68, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

**Enterprise Education Extended Program**

•EDUC 8D10, 8L09, 8P04, 8P06, 8P61, 8P64, 8Y04 and 8Y05  
 •one credit from EDUC 8F76, 8P65, 8P66, 8P67, 8P68, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90 (see program note 1)

*Certificate in Enterprise Education*

•EDUC 6F91, 6F92 and 6F93

**Independent School Teachers**

EDUC 8L09, 8P04, 8P06, 8P08, 8P10, 8P42, 8P61, 8P64, 8Y04, 8Y05

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### Description of Courses

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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

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### Prerequisites and Restrictions

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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.

### Enterprise Education Certificate courses

#### EDUC 6F91

##### Enterprise Studies

Introduction to the philosophy, principles and methodology of enterprise education through examination of materials in Enterprise Education at the local, national and international levels.

*Lectures, seminar, fieldwork, 20 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended Program.

Note: this course runs for 4 weeks in July/August.

#### EDUC 6F92

##### Enterprise Education and Teaching

Application of enterprise education to school curriculum and teaching; focus on the Ontario provincial curriculum guidelines; models for school/community partnerships.

*Lectures, seminar, fieldwork. 20 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended Program.

Note: this course runs for 4 weeks in July/August.

#### EDUC 6F93

##### Journey into Enterprise

Identification of entrepreneurial opportunities and ventures; experience in developing an entrepreneurial plan; practicum in a business or community organization.

*Lectures, seminar, workshops, 2 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended Program.

Note: internship of 4 weeks.

### Pre-Service Education courses

#### 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

##### Teaching Techniques for the Classroom

Components of the act of teaching identified and presented in a modular format. The student is guided through a series of specified tasks to practice and gain mastery in each of the required teaching skills.

*Lectures, seminar, 4 hours per week; plus practicum.*

Restriction: open to students admitted to Pre-service Education, and to BA CHYS (Pass)/BEd (Primary/Junior), BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) 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 8F09

##### Instructional Strategies: Early Primary

For candidates focussing on early primary education. Methods developed specifically for early primary education and for the junior level. Topics presented in collaboration with practising early childhood teachers include play-based early childhood learning environments, literature-based theme planning, observation through journals, emergent literacy. Teacher-led sessions on play-based learning.

*Lectures, seminar, 4 hours per week; plus practicum.*

Restriction: open to students admitted to Pre-service Education and to BA CHYS (Pass)/BEd (Primary/Junior) majors.

Co-requisite: EDUC 8L09.

Note: credit will not be given for this course unless EDUC 8L09 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 students admitted to the French Teaching Specialization Education program and 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.

Co-requisite: EDUC 8L09.

#### 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 French Teaching Specialization Education, Intermediate/Senior programs, and 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 8L09

##### Principles and Practices for Professional Certification

Practical experiences in observing and teaching in schools; includes teaching centre/internship activities. These are integrated with courses, (EDUC 8F08 or 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 Native Teacher Education, French Teaching



Specialization, Pre-service Education and Technological Studies Education programs, and to BA CHYS ( Pass)/BEd (Primary/Junior), BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, BA Integrated Studies (Honours)/BEd (Junior/Intermediate), BSc Integrated Studies (Honours)/BEd (Junior/Intermediate), BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior), BSc (Honours)/BEd (Intermediate/Senior) and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 overall credits.

Co-requisite: one of EDUC 8D10, 8F08, 8F11, 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.

Completion of this course will replace previous assigned grade in EDUC 8D09.

#### 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.*

Note: BA Integrated Studies (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) students must have a minimum of 5.0 overall credits.

Completion of this course will replace previous assigned grade 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 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 Studies 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, 4 hours per week.*

Restriction: open to students admitted to the French Teaching Specialization and 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.

#### 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 data bases.

*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 Pre-service Teachers**

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 a successful three-week supervised practicum in FSL teaching.

#### EDUC 8P14

##### **Classroom Dynamics for Concurrent Education Students**

Readings, discussions, role plays, and problem-solving exercises focussed on classroom management, assessment and evaluation based on principles of teaching and learning.

*Lectures, seminar, 2 hours per week.*

Restriction: open to BSc Integrated Studies (Pass)/BEd (Junior/Intermediate), BA CHYS (Pass)/BEd (Primary/Junior) majors with a minimum of 4.0 overall credits, BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 10.0 overall credits, BA (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Intermediate/Senior); BSc (Honours)/BEd (Intermediate/Senior), BA (Honours) Integrated Studies/BEd (Junior/Intermediate) and BSc (Honours) Integrated Studies/BEd (Junior/Intermediate) with a minimum of 15.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8Y61 and 8Y63.

#### EDUC 8P15

##### **Introduction to Classroom Instruction**

Exploration of models of teaching.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BA, BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 10.0 overall credits.

#### EDUC 8P16

##### **Instructional Methods for the Classroom**

Principles of lesson, unit and long-range planning applied to teaching, learning and evaluation based on the Ontario Curriculum K-8, the Achievement Levels and the Provincial Exemplars. Connections between theory, practice and reflection related, in modular format, to observation and

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experiences in school field placements.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BA, BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits. Prerequisite: EDUC 8P15.

### 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 BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, BA (Honours) Integrated Studies/BEd (Junior/Intermediate) and BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) majors with a minimum of 20.0 overall credits.

### 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 BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, 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 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) majors with a minimum of 15.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 overall credits.

Note: offered as a summer course for the Native Teacher Education Program.

### 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, and to BA CHYS (Pass)/BEd (Primary/Junior) majors with a minimum of 10.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 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 Pre-service Education, and to BA CHYS (Pass)/BEd (Primary/Junior) majors, BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, BPhEd (Honours)/BEd (Primary/Junior), 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 Pre-service 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, focussing 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 Pre-service 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 Pre-service Education, and to BA/BEd, BPhEd/BEd and BSc/BEd majors with a minimum of 15.0 overall credits.

### EDUC 8P40

#### Family Literacy and Parent Involvement in Education

Current research and practice in the fields of family literacy and parent involvement in

education. Students will 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 Pre-service Education, and to BA/BEd, 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 Pre-service Education, and to BA/BEd, 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 Pre-service Education, and to BA/BEd, 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 focussing on what teachers may 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 Pre-service Education, and to BA/BEd, 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 Pre-service Education, and to BA/BEd, 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 Pre-service Education, and to BA/BEd, 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 Pre-service Education, and to BA/BEd, 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, Pre-service Education, and to BA/BEd, BPhEd/BEEd and BSc/BEEd majors with a minimum of 15.0 overall credits.

#### EDUC 8P61

##### **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, 2 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended and Teachers in Independent Schools program.

#### EDUC 8P64

##### **Guidance and Career Education**

Prevailing theories of career development applied to guidance programs and practices in Ontario schools.

*Lectures, seminar, field work, 2 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended and Teachers in Independent Schools Program.

#### EDUC 8P65

##### **Marketing and Merchandising: 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 Management: 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.

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### **Data Processing: Intermediate/Senior**

Teaching methods and curriculum materials for courses in data processing in the secondary schools.

*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 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 8P70

### **Transition Years**

Policies and perspectives that underlie organizational structures, curriculum guidelines and teaching practices in the intermediate grades (7-10).

*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) majors with a minimum of 15.0 overall credits.

EDUC 8P71

### **Co-operative Education**

Survey of co-operative education programs currently in place in Ontario secondary schools with reference to the OCT stance and guidelines; school/workplace articulation; outcomes for the students assessed within the framework of experiential learning.

*Seminar, field work, 2 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended Program.

EDUC 8P72

### **Computer Science: 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 (First Language): 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. Emphasis on maturation, citizenship, global 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 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**

**Physical and Health Education: Intermediate/Senior**

Philosophy of physical and health education in grades 7-12; limitations on the physical education program, management in the different learning areas, curriculum and teaching methods and use of audio-visual aids in health education.

*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.

Completion of this course will replace previous assigned grade in EDUC 8P79.

**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. Reproducible materials are distributed to all students.

*Lectures, seminar, 4 hours per session.*

Restriction: open to students admitted to the Native Teacher Education programs.

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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.

*Labs, 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 (Basic)**

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 (Basic)**

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 (Basic)**

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 (Advanced)**

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 in EDUC 9G10.

EDUC 8R05

### **The Teaching of Electronic Communications Technology (Advanced)**

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 (Advanced)**

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 (Advanced)**

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 (Basic)**

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 (Basic)**

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 (Basic)**

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 (Basic)**

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 8R15**

**The Teaching of Residential Construction Technology (Advanced)**

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 (Advanced)**

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 (Advanced)**

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 (Advanced)**

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 (Advanced)**

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 (Basic)**

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 (Basic)**

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 (Basic)**

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 (Basic)**

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 8R25**

**The Teaching of Design Systems Technology (Advanced)**

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 (Advanced)**

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 (Advanced)**

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 (Advanced)**

Candidates are provided with opportunities to integrate their own real world experiences with those of their colleagues. This activity permits



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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 (Advanced)

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 (Basic)

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 (Basic)

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 (Basic)

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 (Advanced)

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 (Advanced)

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 (Advanced)

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

#### The Teaching of Manufacturing Technology (Advanced)

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 (Basic)

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 (Basic)

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 (Basic)

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 (Advanced)

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 (Advanced)

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 (Advanced)

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 (Advanced)

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 (Basic)**

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 (Basic)**

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 (Basic)**

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 (Basic)**

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 (Advanced)**

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 (Advanced)**

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 (Advanced)**

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 8R58

**Geriatric Care Services (Advanced)**

May include an in-depth study of 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 8R59

**The Teaching of Transportation Technology (Advanced)**

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 (Basic)**

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 (Basic)**

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 (Basic)**

May include tractor trailers, freight trains, cargo ships, rocket ships, farm equipment, pipe lines and conveyors.

*Lectures, seminar, 2 hours per week.*

EDUC 8R65

**The Teaching of Personal Transportation Technology (Advanced)**

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 (Advanced)**

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 (Advanced)**

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.

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EDUC 8R71

### The Teaching of Computer Engineering Technology (Basic)

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 (Basic)

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 (Advanced)

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 (Advanced)

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 8R98

### The Teaching of Design and Technology (Advanced)

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 materials like wood, metal and plastic. Emphasis is on problem solving, and on student-centred and activity-based learning.

*Lectures, seminar, 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 BSc Integrated Studies (Pass)/BEd (Junior/Intermediate), French Teaching Specialization, Ontario Certificate of Qualification Native Teacher Education, Pre-service Education and Technological Studies Education programs, and to BA CHYS (Pass)/BEd (Primary/Junior), BPhEd (Honours)/BEd (Primary/Junior) 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 BSc Integrated Studies (Pass)/BEd (Junior/Intermediate), French Teaching Specialization, Ontario Certificate of Qualification Native Teacher Education, Pre-service Education and Technological Studies Education programs, and to BA CHYS (Pass)/BEd (Primary/Junior), BPhEd (Honours)/BEd (Primary/Junior) 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 (Pass)/BEd (primary/Junior), BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, BPhEd (Honours)/BEd (Primary/Junior) 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 8Y21

### Junior/Intermediate Mathematics

Teaching mathematics at the Junior and Intermediate levels: resources, curriculum and methods.*Lectures, seminar, 2 hours alternate weeks.*

Restriction: open to students admitted to Junior/Intermediate program, and to BSc (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, BA Integrated Studies (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 in EDUC 8P21.

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 alternate weeks.*

Restriction: open to students admitted to Junior/Intermediate program, and to BSc (Pass)/BEd (Junior/Intermediate) majors with a minimum of 10.0 overall credits, BA (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 in EDUC 8P22.

EDUC 8Y28

**Junior/Intermediate Science and Technology**  
Integrated approach to teaching science and technology at the junior and intermediate levels focussing on instructional strategies appropriate to the expectations in the Ontario curriculum.

*Lectures, 2 hours alternate weeks, lab, 2 hours alternate weeks.*

Restriction: open to students admitted to Junior/Intermediate program, and to BSc (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits, BA (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 in EDUC 8P21.

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 of Canadian identity and democratic values. The study of history as a preparation for life in a complex society focussing on geography as the study of the interdependency of people and their environment.

*Lectures, seminar, 2 hours alternate weeks.*

Restriction: open to students admitted to Junior/Intermediate program, and to BSc (Pass)/BEd (Junior/Intermediate) majors with a minimum of 10.0 overall credits, BA (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 in EDUC 8P22.

EDUC 8Y31

**Primary/Junior Mathematics**

Teaching mathematics at the junior and intermediate levels: resources, curriculum, and methods.

*Lectures, seminar, 2 hours alternate weeks.*

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) majors with a minimum of 15.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8P31.

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 alternate weeks.*

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) majors and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8P32.

EDUC 8Y38

**Primary/Junior Science and Technology**

Integrated approach to teaching science and technology at the primary and junior levels; focuses on instructional strategies appropriate to the expectations in the Ontario curriculum.

*Lectures, 2 hours alternate weeks, lab, 2 hours alternate weeks.*

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) majors with a minimum of 15.0 overall credits and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8P31.

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 focussing on Canadian identity and democratic values.

*Lectures, seminar, 2 hours alternate weeks.*

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) majors and BPhEd (Honours)/BEd (Primary/Junior) majors with a minimum of 20.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8P32.

EDUC 8Y50-8Y60

**Special Topics in Pre-service 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, Pre-service Education and Technological Studies Education Programs, and to BA CHYS (Pass)/BEd (Primary/Junior), BPhEd (Honours)/BEd (Primary/Junior), BSc (Honours)/BEd (Junior/Intermediate) and BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) majors with a minimum of 15.0 overall credits.

Note: these courses are options for credit.

EDUC 8Y51

**Early Primary Education**

Instructional strategies relevant to learners from Junior Kindergarten to Grade 1; current Ontario initiatives and curriculum for the early primary years.

*Lectures, seminar, 2 hours per week.*

Note: this course is an option for credit.

EDUC 8Y52

**Early Secondary School Education**

Instructional strategies relevant to learners in Grades 9 and 10; current Ontario initiatives and curriculum for the early secondary school years.

*Lectures, seminar, 2 hours per week.*

Note: this course is an option for credit but does not give students intermediate/senior basic teaching.

EDUC 8Y53

**Aboriginal Studies for the Junior/Intermediate School**

Survey of cultural, linguistic, political and socio-economic issues of Aboriginal people in Canada as outlined in the Ontario curriculum. Topics include the involvement of Aboriginal people in the development of Canada from pre-history to the present. Emphasis on contemporary Aboriginal issues.

*Lectures, seminar, 2 hours per week.*

Note: this course is an option for credit.

## EDUCATION - PRE-SERVICE

### 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 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, Pre-service Education and French Teaching Specialization programs, and to BA CHYS (Pass)/BEd (Primary/Junior), BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) 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/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)**

Designed for those who might be responsible for religious education in public, private, or church schools. Because of our pluralistic society, teachers are increasingly called upon to understand the world view of students from a mosaic of religious traditions and to help students understand and respect these traditions, including their own, and to understand 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, Pre-service Education and French Teaching Specialization programs, and to BA CHYS (Pass)/BEd (Primary/Junior), BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) 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/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)

*Director, Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent  
Education Programs*  
Sandra Regier

*Faculty Representatives*  
Corrado Federici (Faculty of Humanities),  
Tony DiPetra (Faculty of Education)

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### General Information

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*Administrative Assistant*  
Mona Lavoie

905-688-5550 extension 4226  
Welch Hall 8A  
<http://concurrent.ed.brocku.ca>

The Faculties of Humanities, Social Sciences, and the Faculty of Education co-operate 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 Director of Concurrent Education Programs and the Chair, Department of Pre-service Education. Students must maintain a minimum 75 percent 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 major and 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.

Pre-service 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 Pre-service Education courses applied to an undergraduate degree.

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.

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.

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### Admissions

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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.

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### Ontario College of Teachers Criminal Records Screening Policy

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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 practise 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.

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### Language Requirement for Humanities Majors

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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.

EDUCATION - CONCURRENT  
BA (Honours)/BEd (Intermediate/Senior)

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Program Notes

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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 overall average may request 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. A minimum of 1.0 credit in writing/composition/grammar.

**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** - Must have 1.0 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental 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.

**VISUAL ARTS** - Studio-based course credits are required. A maximum of 1.0 credit from film, photography, architecture, and fashion, or history of art.

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: Computer Science, Dramatic Arts, English (first language), French (second language), Geography, History, International Languages-German, Italian, Spanish, Mathematics, Physical and Health 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.

Clarification of the following teachable subjects:

**COMPUTER SCIENCE** - All 3.0 credits must be in computer and information science related to: software design and programming; problem solving; logic and design.

**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 writing/composition/grammar. 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 1.0 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental Studies.

**INTERNATIONAL LANGUAGES - GERMAN** - 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** - 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** - 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** - A maximum of 1.0 credit in statistics.

**PHYSICAL AND HEALTH EDUCATION** - 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in Health Studies.

**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.

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. French majors: students are encouraged and may include a term of study in a French-speaking environment (approved by the Department) during the winter term of year 3. Students will have program approval to participate if they have maintained a minimum 75 percent overall average.

8. French majors complete Year 5 at the Hamilton campus.

9. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

## Honours Program

### Dramatic Arts

#### Year 1

- DART 1F93 and 1F98
- CHYS 1F90
- one Science context credit
- one language credit (see language requirement)

#### Year 2

- DART 2F94
- one credit from DART 2P70, 3P03, 3P05, 3P06, 3P07
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

#### Year 3

- DART 3F94
- one of DART 2F04, 2F50, 3F78
- one credit from DART 2P70, 3P03, 3P05, 3P06, 3P07
- EDUC 8P08
- one elective credit
- one credit in second teachable subject (see program note 5)

#### Year 4

- Two credits from DART 3F50, 4F40, DART 3P53 and one of DART 3P54, 3P92, 4P70
- DART 4F90
- EDUC 8P02 and 8P14
- one credit in second teachable subject (see program note 5)

#### Year 5

- EDUC 4P02 and 4P25
- 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 Science 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

- ENGL 4P85
- one ENGL credit 2(alpha)90 or above
- one and one-half ENGL credits 4(alpha)00 or above
- EDUC 8P02 and 8P14
- one credit in second teachable subject (see program note 5)

#### Year 5

- EDUC 4P02 and 4P25
- 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 Science 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 notes 6 and 7)
- EDUC 8P08

#### Year 4

- FREN 4P03
- EDUC 8P02 and 8P14
- two and one-half FREN or MLLC credits numbered 3(alpha)90 or above (see program note 7)
- one credit in second teachable subject (see program note 5)

#### Year 5

- EDUC 4P02 and 4P25
- EDUC 8F11, 8F76, 8L09, 8Y04 and 8Y05 (see program notes 2 and 8)
- one of EDUC 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

### Geography

Geography credits in Years 3 and 4 must be taken from course offerings in lists A and B (consult Geography entry for these listings)

#### Year 1

- GEOG 1F90 and 1F91
- CHYS 1F90
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one credit in second teachable subject (see program note 5)

#### Year 2

- GEOG 2P03, 2P06, 2P07 and 2P12
- one of GEOG 2P01, 2P02, 2P04, 2P05, 2P09, 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
- EDUC 8P08
- one credit in second teachable subject (see program note 5)
- one elective credit

**EDUCATION - CONCURRENT  
BA (Honours)/BEd (Intermediate/Senior)**

*Year 4*

- One GEOG credit numbered 2(*alpha*)90 or above
- two GEOG credits numbered 3(*alpha*)90 or above
- one credit in second teachable subject (see program note 5)
- EDUC 8P02 and 8P14

*Year 5*

- EDUC 4P02 and 4P25
- 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 1P92 and 1P93
- CHYS 1F90
- one Science 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 8P14
- one credit in second teachable subject (see program note 5)

*Year 5*

- EDUC 4P02 and 4P25
- 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 1F98
- CHYS 1F90
- one Science context credit
- one language credit (see language requirement)
- one credit in second teachable (see program note 5)

*Year 2*

- VISA 1P93 and 1P94 or VISA 1P96 and 1P97
- one of VISA 2F05, 2F26, VISA 2P02 and 2P03
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 5)

*Year 3*

- One VISA credit numbered 1(*alpha*)90 or above
- VISA 2P50 and 2P51 or VISA 2P90 and 2P91
- two VISA credits numbered 2(*alpha*)90 or above
- EDUC 8P08
- 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 8P14
- one credit in second teachable subject (see program note 5)

*Year 5*

- EDUC 4P02 and 4P25
- 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

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**Description of Courses**

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See relevant calendar entry for course descriptions.



## Education - Concurrent BA Child and Youth Studies (Pass)/BEd (Primary/Junior)

*Director, Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent Education Programs*  
Sandra Regier

*Faculty Representatives*  
Sharon Abbey (Faculty of Education), Frances Owen (Faculty of Social Sciences)

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### General Information

*Administrative Assistant*  
Mona Lavoie

905-688-5550, extension 4226  
Welch Hall 8A  
<http://www.brocku.ca/childandyoungstudies/>  
[www.concurrent.ed.brocku.ca](http://www.concurrent.ed.brocku.ca)

The Department of Child and Youth Studies and the Faculty of Education co-operate in offering a concurrent four-year program combining a (Pass) 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 Director. Students must maintain a minimum 75 percent overall average each year in all academic grade-marked courses.

Application forms for the BA Child and Youth Studies (CHYS)/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/BEd program should consult the Director of Concurrent Education Programs regarding program requirements and continuance in the program. For further information about the

CHYS BA/BEd program contact the Office of Concurrent Education Programs.

Because the CHYS BA/BEd program integrates teacher education courses with academic courses, the student should note that the Pre-service 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/BEd program may not have credit in Pre-service Education courses applied to an undergraduate degree. Students should note that credits for the concurrent CHYS BA/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 Pre-service Departments.

Successful graduates of the Child and Youth Studies program will receive a Bachelor of Arts Pass 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.

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### 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 practise 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.

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### Admissions

Students interested in the Child and Youth Studies BA/BEd program apply to a common year 1 in Child and Youth Studies. 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 Pre-Service BEd degree before completing the Child and Youth Studies BA/BEd program.

Candidates must have completed Grade 12U, OAC 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: MATH 2P52 Principles of Mathematics for Primary and Junior Teachers; ESCI 1P10 Science for Primary/Junior Teachers; LING 2P10 Fundamentals of English Grammar; one-half university Canadian geography credit; one-half university Canadian history credit. Students are also encouraged to take arts and physical education courses.

Students who achieve a minimum 75 percent overall academic average with a minimum of 4.0 credits and a maximum of 8.0 credits are eligible to apply. Students must have completed CHYS 1F90, PSYC 1F90 and SOCI 1F90.

EDUCATION - CONCURRENT BA  
CHILD AND YOUTH STUDIES (PASS)/BEd (Primary/Junior)

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Program Notes

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1. Students are encouraged to use elective credits (including context credits) to take courses relevant to Education.
2. The elective credit in year 4 must be completed in the evening or taken during the Spring or Summer session.
3. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

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Pass Program

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*Year 1*

- CHYS 1F90
- PSYC 1F90
- SOCI 1F90
- one Humanities context credit or one Science context credit
- one elective credit (see program note 1)

*Year 2*

- CHYS 2F10, 2P35 and 2P38
- EDUC 8P14, 8Y04 and 8Y05
- MATH 1F92 or PSYC 2F23
- the Humanities context credit or Science context credit not taken in year 1
- one-half elective credit (see program note 1)

*Year 3*

- CHYS 3P10, 3P15 and 3P50
- EDUC 8P33
- one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33
- one of CHYS 3P20, 3P21, 3P26, 3P35, 3P43, 3P47, 3P48, 3P60
- one of CHYS 3P27, 3P28, 3P30, 3P31, 3P32, 3P38, 3P39, 3P44
- one of EDUC 2F01, 3F00, 3F01
- one-half elective credit (see program note 1)

*Year 4*

- EDUC 8L09, 8P30, 8Y31, 8Y36, 8Y38 and 8Y39
- EDUC 8F08 or 8F09
- one elective credit (see program notes 1 and 2)

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Description of Courses

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See relevant calendar entry for course descriptions.

## Education - Concurrent BA Integrated Studies (Honours)/BEd (Junior/Intermediate)

*Director, Concurrent Education Programs*  
Rosamund Batty

*Associate Director, Concurrent Education Programs*  
Sandra Regier

*Faculty Representatives*  
Corrado Federici (Faculty of Humanities),  
Mary-Louise Vanderlee (Faculty of Education)

---

### General Information

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*Administrative Assistant*  
Mona Lavoie

905-688-5550, extension 4226  
Welch Hall 8A  
<http://concurrent.ed.brocku.ca>

The Faculties of Applied Health Sciences, Humanities, Social Sciences, and the Faculty of Education co-operate 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.

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Director of Concurrent Education Programs and the Chair, Department of Pre-service Education. Students must maintain a minimum 75 percent overall average each year in all undergraduate academic grade-marked courses.

Each student must choose a teachable subject from one of Dramatic Arts, English, French, Geography, History, Mathematics, Music (vocal), Physical and Health Education, 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. A minimum of 10.5 academic undergraduate credits in Humanities and Social Sciences must be completed for a BA Honours degree to be awarded.

Pre-service 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/BEd program will not have credit in Pre-service Education courses applied to an undergraduate degree.

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.

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.

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### Admissions

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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.

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### Ontario College of Teachers Criminal Records Screening Policy

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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 practise 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.

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### Program Notes

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1. CHYS 2F10 has a placement and must be taken during the Fall/Winter Session.

## EDUCATION - CONCURRENT

### BA Integrated Studies (Honours)/BEd (Junior/Intermediate)

2. Practice teaching may have to be scheduled in May and June of year 5.

3. Students failing to maintain the 75 percent overall average may request 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 writing/ composition/grammar.

**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 1.0 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental 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.

**MUSIC (vocal)** - A maximum of 1.0 credit from history of music.

**PHYSICAL AND HEALTH EDUCATION** - 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in Health Studies.

**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 Pre-service Education.

6. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

### Honours Program

#### Year 1

- CHYS 1F90
- EDUC 1F95
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one Science context credit
- one credit in Junior/Intermediate teachable subject or elective (see program notes 4 and 5)

#### Year 2

- CHYS 2F10 (see program note 1)
- one COSC or MATH credit
- EDUC 2P65
- one language credit (other than English)
- one credit in Junior/Intermediate teachable subject (see program notes 4 and 5)
- one-half elective credit

#### Year 3

- CHYS 3P74
- EDUC 8Y15
- EDUC 3F00 and 3P45
- one credits in Junior/Intermediate teachable subject numbered 2(alpha)90 or above (see program notes 4 and 5)
- two elective credits

#### Year 4

- EDUC 4P05 and 4P25
- EDUC 8P14
- three and one-half elective credits

#### Year 5

- EDUC 4P02
- EDUC 8L09, 8P23, 8P20, 8P16, 8Y04, 8Y05, 8Y21, 8Y26, 8Y28 and 8Y29 (see program note 2)

### Description of Courses

See relevant calendar entry for course descriptions.

## Education - Concurrent BPhEd (Honours)/BEd (Intermediate/Senior)

*Director, Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent Education Programs*  
Sandra Regier

*Director, Physical Education Programs,  
Concurrent Education*  
Nancy R. Francis-Murray

*Faculty Representative*  
Anne Elliott (Faculty of Education)

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### General Information

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*Administrative Assistant*  
Mona Lavoie

905-688-5550; extension 4226  
Welch Hall 8A  
<http://concurrent.ed.brocku.ca>

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 Director of Concurrent Education Programs and the Chair, Department of Pre-service Education. Students must maintain a minimum 75 percent overall average each year in all undergraduate academic grade-marked 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.

Pre-service 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 Pre-service Education courses applied to an undergraduate degree.

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.

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.

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### Admissions

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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.

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### Ontario College of Teachers Criminal Records Screening Policy

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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 practise 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 of 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.

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### Program Notes

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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

**EDUCATION - CONCURRENT**  
**BPhEd (Honours)/BEd (Intermediate/Senior)**

overall average may request 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: Computer Science, Dramatic Arts, English (first language), French (second language), Geography, History, International Languages-German, Italian, Spanish, Mathematics, 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. Clarification of the following teachable subjects:

**COMPUTER SCIENCE** - All 3.0 credits must be in computer and information science related to: software design and programming; problem solving; logic and design.

**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 writing/ composition/grammar. 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 1.0 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental 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.

**INTERNATIONAL LANGUAGES - GERMAN** - 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** - 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** - 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** - 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 Pre-service Education.

5. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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**Honours Program**

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*Year 1*

- PEKN 1P90 and 1P93
- CHYS 1F90
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one Science context credit
- one credit in second teachable subject (see program note 4)

*Year 2*

- PEKN 2P04, 2P05, 2P09, 2P41, 2P66 and 2P84.
- CHYS 2F10 (see program note 1)
- EDUC 1F95

*Year 3*

- PEKN 2P08, 2P90, 2P92, 2P95, 3P00, 3P32 and 3P70
- one of PEKN 2P03, 2P66, 3P16
- EDUC 8P08
- one credit in second teachable subject (see program note 4)

*Year 4*

- PEKN 3P10, 3P91, 3P93 and 4P32
- one PEKN credit numbered 3(alpha)90 or above
- EDUC 8P02 and 8P14
- one credit in second teachable subject (see program note 4)

*Year 5*

- EDUC 4P02 and 4P25
- 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

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**Description of Courses**

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See relevant calendar entry for course descriptions.

EPPJ

EDUCATION - CONCURRENT  
BPhEd (Honours)/BEd (Primary/Junior)

## Education - Concurrent BPhEd (Honours)/BEd (Primary/Junior)

*Director of Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent Education Programs*  
Sandra Regier

*Director, Physical Education Programs,  
Concurrent Education*  
Nancy R. Francis-Murray

*Faculty Representative*  
Anne Elliott (Faculty of Education)

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### General Information

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*Administrative Assistant*  
Mona Lavoie

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<http://www.arnie.pec.brocku.ca/deptphysed/>  
<http://concurrent.ed.brocku.ca>

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 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 Director. Students must maintain a 75 percent overall average each year in all academic grade-marked courses.

Application forms for the BPhEd (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. Students in the BPhEd (Honours)/BEd program should consult the Director of Concurrent Education Programs regarding program requirements and continuance in the

program. 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 Pre-service 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 Pre-service 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 Pre-service departments.

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.

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### 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 practise 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.

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### Admissions

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Students must complete the common first year in the Physical Education and Kinesiology program before applying for admission to the BPhEd (Honours)/BEd program. Admission will be based on a minimum of 75 percent overall average on a minimum of five credits and a minimum grade of 70 percent in both PEKN 1P90 and 1P93. Application forms are available on the Concurrent Education web site from April 1. Completed documents must be filed in the Concurrent Education Office by June 1.

In addition, a letter of interest/experience, references and an interview may be used to determine eligibility to enter the program. Students should note that this is a limited enrolment program and admission is not guaranteed by attainment of the minimum requirements.

Students are expected to have the admissions requirements for the Primary/Junior Pre-Service BEd degree before completing the BPhEd (Honours)/BEd program.

Candidates must have completed Grade 12U, OAC 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: MATH 2P52 Principles of Mathematics for Primary and Junior Teachers; ESCI 1P10 Science for Primary/Junior Teachers; LING 2P10 Fundamentals of English Grammar; one-half university Canadian geography credit; one-half university

**EDUCATION - CONCURRENT**  
**BPhEd (Honours)/BEd (Primary/Junior)**

Canadian history credit. Students are also encouraged to take arts courses.

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**Program Notes**

1. Recommended to be taken in Spring or Summer Session, prior to year 5, to avoid conflicts with Education requirements.
2. Unless otherwise indicated, students are encouraged to take elective credits outside the Department of Physical Education and Kinesiology.
3. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above.

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**Honours Program**

*Year 1*

- PEKN 1P90 and 1P93
- COSK 1P95
- one Humanities context credit
- one Science context credit
- one Social Science context credit
- one-half elective credit

*Year 2*

- PEKN 2P00, 2P03, 2P04, 2P05, 2P06, 2P08, 2P09, 2P41 and 2P84
- EDUC 8Y04 and 8Y05
- one-half elective credit

*Year 3*

- PEKN 2P92, 2P95, 2P97, 3P32 and 3P70
- one of PEKN 2P66, 3P00, 3P03, 3P06, 3P16
- CHYS 2F10
- EDUC 8P14
- one-half elective credit

*Year 4*

- PEKN 3P10, 3P93, 3P97, 4P31 and 4P32
- EDUC 8Y36 and 8Y39
- one PEKN credit numbered 3(*alpha*)90 or above
- one elective credit

*Year 5*

- EDUC 4P02
- EDUC 8F08, 8L09, 8P30, 8P33, 8Y31 and 8Y38
- one-half elective credit (see program note 1)

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**Description of Courses**

See relevant calendar entry for course descriptions.



## Education - Concurrent BSc (Honours)/BEd (Intermediate/Senior)

*Director, Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent Education Programs*  
Sandra Regier

*Faculty Representatives*  
Gregory C. Finn (Faculty of Mathematics and Science), Tony DiPetta (Faculty of Education)

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### General Information

*Administrative Assistant*  
Mona Lavoie

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Welch Hall 8A  
<http://concurrent.ed.brocku.ca>

The Faculties of Mathematics and Science, 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 Director of Concurrent Education Programs and the Chair, Department of Pre-service Education. Students must maintain a minimum 75 percent 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.

Pre-service 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 Pre-service Education courses applied to an undergraduate degree.

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.

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.

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### Admissions

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.

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### 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 practise 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.

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### 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 overall average may request an opportunity to upgrade their marks and to be reinstated. A request to upgrade may be granted only once.

**EDUCATION - CONCURRENT**  
**BSc (Honours)/BEd (Intermediate/Senior)**

4. Students must choose the second teachable subject area from: Computer Science, Dramatic Arts, English (first language), French (second language), Geography, History, International Languages-German, Italian, Spanish, Mathematics, Physical and Health 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. Clarification of the following teachable subjects:

**COMPUTER SCIENCE** - All 3.0 credits must be in computer and information science related to: software design and programming; problem solving; logic and design.

**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 writing/composition/grammar. 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 1.0 credit in Canadian geography. A maximum of 1.0 credit in Earth Sciences/Environmental 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.

**INTERNATIONAL LANGUAGES - GERMAN** - 2.0 credits must be in grammar/composition, both of which must be given in German.

**INTERNATIONAL LANGUAGES - ITALIAN** - 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** - 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** - A maximum of 1.0 credit in statistics.

**PHYSICAL AND HEALTH EDUCATION** - 2.0 credits must be activity-based courses in Physical Education. 1.0 credit in Health Studies.

**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.

**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 Pre-service Education.

5. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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**Honours Program**

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**Biological Sciences**

*Year 1*

- BIOL 1F90
- CHEM 1F92
- CHYS 1F90
- MATH 1P97 and 1P98
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98

*Year 2*

- BIOL 2F01, 2P05 and 2Q04
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one credit in second teachable subject (see program note 4)

*Year 3*

- Two BIOL credits numbered 2(alpha)90 or above
- two BIOL credits numbered 3(alpha)00 or above
- EDUC 8P08
- one credit in second teachable subject (see program note 4)

*Year 4*

- Three BIOL credits numbered 4(alpha)00 or above
- EDUC 8P02 and 8P14
- one credit in second teachable subject (see program note 4)

*Year 5*

- EDUC 4P02 and 4P25
- 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
- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98

*Year 2*

- CHYS 2F10 (see program note 1)
- CHEM 2P20 and 2P42
- one credit from CHEM 2P12, 2P21, 2P32
- COSC 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 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 8P14

*Year 5*

- EDUC 4P02 and 4P25
- 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, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one Science 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 note 4)

*Year 3*

- COSC 1P50, 2P90 and 3F00
- EDUC 8P08
- MATH 1P01, 1P02 and 1P12
- one credit in second teachable subject (see program note 4)
- 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 8P14
- one credit in second teachable subject (see program note 4)

*Year 5*

- EDUC 4P02 and 4P25
- 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**

Geography credits in Years 3 and 4 must be taken from course offerings in lists A and B (consult Geography entry for these listings)

*Year 1*

- GEOG 1F90 and 1F91
- CHYS 1F90
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one credit in second teachable subject (see program note 4)

*Year 2*

- GEOG 2P03, 2P06, 2P07, 2P11 and 2P12
- one of GEOG 2P01, 2P02, 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
- EDUC 8P08
- one credit in second teachable subject (see program note 4)
- one elective credit

*Year 4*

- One GEOG credit numbered 2(alpha)90 or above
- two GEOG credits numbered 3(alpha)90 or above
- one credit in second teachable subject (see program note 4)
- EDUC 8P02 and 8P14

*Year 5*

- EDUC 4P02 and 4P25
- 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 from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one credit in second teachable subject (see program note 4)

*Year 2*

- MATH 2P03, 2P08, 2P81 and 2P82
- CHYS 2F10 (see program note 1)
- EDUC 1F95
- one Science context credit

*Year 3*

- MATH 2F40, 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 4)
- 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 8P14
- one-half credit in second teachable subject (see program note 4)

*Year 5*

- EDUC 4P02 and 4P25
- 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 (Mathematics as Second Teachable Subject)**

*Year 1*

- PHYS 1P21 or 1P91
- PHYS 1P22 or 1P92
- CHEM 1F92
- CHYS 1F90
- MATH 1P01 and 1P02
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98

*Year 2*

- PHYS 2P20, 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 4F90, 4P51 and 4P52
- one credit from PHYS 3P92, 3P93, 4P30, 4P70
- EDUC 8P02 and 8P14
- one elective credit

*Year 5*

- EDUC 4P02 and 4P25
- 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
- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98

*Year 2*

- PHYS 2P20, 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 CHEM credit

*Year 4*

- PHYS 4F90, 4P51 and 4P52
- one credit from PHYS 3P92, 3P93, 4P30, 4P70
- EDUC 8P02 and 8P14
- one CHEM credit

*Year 5*

- EDUC 4P02 and 4P25
- EDUC 8F11, 8L09, 8P69, 8P87, 8Y04 and 8Y05 (see program note 2)

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**Description of Courses**

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See relevant calendar entry for course descriptions.

## Education - Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate)

*Director, Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent Education Programs*  
Sandra Regier

### *Faculty Representatives*

Gregory C. Finn (Faculty of Mathematics and Science), Mary-Louise Vanderlee (Faculty of Education)

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### 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.

Students must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Director of Concurrent Education Programs and the Chair, Department of Pre-service Education. Students must maintain a minimum 75 percent 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.

Pre-service 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 Pre-service Education courses applied to an undergraduate degree.

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.

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.

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### Admissions

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.

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### 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 practise 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.

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### 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 overall average may request an

## EDUCATION - CONCURRENT

### BSc Integrated Studies (Honours)/BEd (Junior/Intermediate)

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** - Must have 1.0 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 Pre-service 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. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

- one credit from DART 1F93, ENGL 1F91, 1F95, 1F97, FREN 1F90, HIST 1F95, 1F96, 1P92, 1P93, MUSI 1F10, 1F50, VISA 1F98
- one Science context credit
- one credit in J/I teachable subject or Science elective credit (see program notes 4, 5 and 6)

#### Year 2

- CHYS 2F10 (see program note 1)
- one COSC or MATH credit
- EDUC 2P65
- one language credit (other than English)
- one credit in J/I teachable subject (see program notes 5 and 6)
- one-half elective credit

#### Year 3

- CHYS 3P74
- EDUC 3F00 and 3P45
- EDUC 8P15
- one credit in J/I teachable subject numbered 2(alpha)90 or above (see program notes 5 and 6)
- two Science elective credits (see program note 4)

#### Year 4

- MATH 3P91 or ESCI 3P91
- EDUC 4P01 and 4P25
- EDUC 8P14
- three Science elective credits (see program note 4)

#### Year 5

- EDUC 4P02
- EDUC 8L09, 8P23, 8P20, 8P16, 8Y04, 8Y05, 8Y21, 8Y26, 8Y28 and 8Y29 (see program note 2)

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### Description of Courses

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See relevant calendar entry for course descriptions.

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### Honours Program

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#### Year 1

- CHYS 1F90
- EDUC 1F95

EIBD

## Education - Concurrent BSc Integrated Studies (Pass)/BEd (Junior/ Intermediate)

*Director, Concurrent Education Programs*  
Rosamund Battye

*Associate Director, Concurrent Education Programs*  
Sandra Regier

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### General Information

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*Administrative Assistant*  
Mona Lavoie

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The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent four-year program combining a Bachelor of Science (BSc) (Pass) degree with a Bachelor of Education (BEd) for students interested in teaching mathematics or science at the Junior/Intermediate level (grades 4-10) emphasizing elementary school.

Students in the BSc (Pass)/BEd program must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Program Director. Students must maintain a minimum 75 percent overall average each year in all academic grade-marked courses.

Students will have program approval to accept an International Exchange program if they have maintained a minimum 75 percent overall average.

Each student must choose to concentrate in either Mathematics or in one of the following sciences: Biological Sciences, Chemistry, Earth Sciences or Physics. For all students, the BSc (Pass)/BEd program combines a focus on contemporary science and mathematics with the development and application of pedagogical techniques.

Because the BSc (Pass)/BEd program integrates teacher education courses with academic courses, the student should note that the Pre-service 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 (Pass)/BEd program will not have credit in Pre-service Education courses applied to an undergraduate degree. Students should note that credits for the Concurrent BSc (Pass)/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 Pre-service Departments.

Students may apply to enter year 2 if their overall year 1 average is 75 percent or above and their year 1 program has closely matched that of the year 1 course requirements of the BSc (Pass)/BEd program. A Profile Questionnaire is required. It is available on the Concurrent Education website from April 1. The program has a limited enrolment and therefore admission into year 2 is limited.

Successful graduates will receive a Bachelor of Science degree in Integrated Studies and a Bachelor of Education degree. After graduation from the BSc (Pass)/BEd program, students may proceed to an Honours Bachelor of Science degree in Integrated Studies. 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.

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### Ontario College of Teachers Criminal Records Screening Policy

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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 practise

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.

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### Program Notes

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1. CHYS 2F10 has a placement in the schools and must be taken during the Fall/Winter Session.
2. Practice teaching may have to be scheduled in May and June of year 4.
3. The elective credit should be taken in spring, summer or evenings to allow for practice teaching in year 4. ENGL or HIST recommended if not taken in year 1.
4. MATH 2P90, 2P93, 3P90 and 3P93 are offered alternate years and must be taken when offered.
5. Students with a minimum 70 percent in OAC or Grade 12 U Chemistry take CHEM 1F92. They may not take CHEM 1P00 without permission from the Department, which is granted only in exceptional cases. Students without the prerequisite for CHEM 1F92 may substitute CHEM 1P00 and one-half ERSC or BIOL credit numbered 2(alpha)00 or above.
6. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

## EDUCATION - CONCURRENT

### BSc Integrated Studies (Pass)/BEd (Junior/Intermediate)

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#### Honours Program

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Students may register for an Honours program in Integrated Studies after completing their BSc (Pass)/BEd with a concentration in Biological Sciences or Mathematics. BSc (Pass)/BEd students with a concentration in Chemistry, Earth Sciences or Physics should consult with those departments regarding an Honours degree.

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#### Pass Program

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##### Biological Sciences

###### Year 1

- BIOL 1F90
- ERSC 1F01
- EDUC 8Y04 and 8Y05
- MATH 1P98
- PSYC 1F90
- one Humanities context credit

###### Year 2

- BIOL 2P05 and 2Q04
- one credit from BIOL 2P92, 2P93, 2P96, 2P98
- CHEM 1F92 (see program note 5)
- CHYS 2F10
- EDUC 8P14
- MATH 1P97

###### Year 3

- One of BIOL 2P92, 2P93, 2P96, 2P98
- one and one-half BIOL credits numbered 3(alpha)00 to 3(alpha)99
- EDUC 2F01 or 3F01
- EDUC 8Y26 and 8Y29
- ESCI 3P91
- PHYS 1P21 or 1P91
- PHYS 1P23 or 1P93

###### Year 4

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit (see program note 3)

#### Honours

###### Year 5

- Two BIOL, BCHM or BTEC credits numbered 3(alpha)00 or above

- two BIOL, BCHM or BTEC credits numbered 3(alpha)90 or above
- one elective credit

#### Chemistry

###### Year 1

- CHEM 1F92
- EDUC 8Y04 and 8Y05
- BIOL 1F90
- MATH 1P01
- PSYC 1F90
- one Humanities context credit

###### Year 2

- CHEM 2P12 or 2P63
- CHEM 2P20, 2P32 and 2P42
- CHYS 2F10
- EDUC 8P14
- MATH 1P02
- PHYS 1P21 or 1P91
- PHYS 1P22 or 1P92

###### Year 3

- Two CHEM credits numbered 3(alpha)00 to 3(alpha)99
- EDUC 3F01
- EDUC 8Y26 and 8Y29
- ERSC 1F01
- ESCI 3P91

###### Year 4

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit (see program note 3)

#### Earth Sciences

###### Year 1

- ERSC 1F01
- BIOL 1F90
- EDUC 8Y04 and 8Y05
- MATH 1P97 or 1P98
- PSYC 1F90
- one Humanities context credit

###### Year 2

- Two credits from ERSC 2P00, 2P05, 2P10, 2P12, 2P21, 2P22, 2P32
- CHEM 1F92 (see program note 5)
- CHYS 2F10
- EDUC 8P14
- MATH 1P97 or 1P98

###### Year 3

- Two ERSC credits numbered 2(alpha)90 or above
- EDUC 2F01 or 3F01

- EDUC 8Y26 and 8Y29
- ESCI 3P91
- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93

###### Year 4

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit (see program note 3)

#### Mathematics

###### Year 1

- MATH 1P01, 1P02 and 1P12
- ERSC 1F01
- PSYC 1F90
- EDUC 8Y04 and 8Y05
- one Humanities context credit

###### Year 2

- MATH 1P40 and 1P66
- MATH 1P98, 2P90 and 3P90, or MATH 2P71, 2P93 and 3P93 (see program note 4)
- CHYS 2F10
- EDUC 8P14
- one of CHEM 1F92, PHYS 1P21 (or 1P91) and 1P22 (or 1P92)

###### Year 3

- MATH 3P12 and 3P91
- MATH 1P98, 2P90 and 3P90, or MATH 2P71, 2P93 and 3P93 (whichever was not taken in year 2)
- EDUC 2F01 or 3F01
- EDUC 8Y26 and 8Y29
- BIOL 1F90 or any year 1 science credit in a discipline not taken in year 2

###### Year 4

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit numbered 2(alpha)00 or above (see program note 3)

#### Honours

###### Year 5

- Two credits from MATH 2F40, 2P72, 2P81, 2P82, 3P60
- MATH 4P71
- one-half EDUC credit numbered 3(alpha)90 or above
- two elective credits



Physics

*Year 1*

- PHYS 1P91 and 1P92
- CHEM 1F92
- MATH 1P01 and 1P02
- PSYC 1F90
- one Humanities context credit

*Year 2*

- PHYS 2P20, 2P31, 2P50 and 2P51
- CHYS 2F10
- EDUC 8P14, 8Y04 and 8Y05
- MATH 2F05

*Year 3*

- Two PHYS credits numbered 3(*alpha*)00 or above
- BIOL 1F90 or ERSC 1F01
- EDUC 2F01 or 3F01
- EDUC 8Y26 and 8Y29
- ESCI 3P91

*Year 4*

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit (see program note 3)

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Description of Courses

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See relevant calendar entry for course descriptions.

# English Language and Literature

## Chair

John Lye

## Professor Emeritus

Michael S. Hornyansky

## Professors

David W. Atkinson, Marilyn J. Rose, Elizabeth Sauer

## Associate Professors

John Lye, Mathew Martin, Barbara K. Seeber, Angus A. Somerville, Susan Spearey

## Assistant Professors

Robert Alexander, James Allard, Neta Gordon, Angela Mills, Steven D. Scott

## Lecturer

Jaclyn Rea

## Studies in Rhetoric and Professional Writing Program Co-ordinator

Jaclyn Rea

## Undergraduate Officer

Mathew Martin

## Faculty of Humanities Undergraduate Adviser

Liz Kaethler

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## General Information

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### Administrative Assistant

Janet Sackfie

905-688-5550, extension 3469

Mackenzie Chown A310

<http://www.brocku.ca/english>

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 program in Studies in Rhetoric and Professional Writing focusses on the theoretical and practical

applications of writing in and for a range of professional 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 Rhetoric and Professional Writing, 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 and professional writing which are available as electives to all Brock students who wish to improve their writing and demonstrate writing competence at the university level. The Department also offers a Minor in English Language and Literature and a Minor in Writing, as well as a Certificate in 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.

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## Language Requirement for Humanities Majors

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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.

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## Program Notes

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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 2Q92, 2Q93, 2Q94, 2Q95 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 2Q92, 2Q93, 2Q94, 2Q95, 2Q98.
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 at least two credits numbered 4(alpha)00 and above; Combined Honours English majors must take at least one ENGL credit numbered 4(alpha)00 and above.
8. The requirement of ENGL 3F91 for Honours programs in calendar years prior to 2004, may be satisfied by one of ENGL 2Q90, 2Q91, 4P85; and any further ENGL half credit.
9. In all 20-credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15-credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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**List Courses**


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List Courses in English reflect historical periods, as follows:

List A: Literature to 1740: ENGL 2P19, 2P21, 2P24, 2Q92, 2Q93, 2Q94, 2Q95, 2Q98, 3P20, 3P22, 3P25, 3P92, 3P95, 4V00-4V09

List B: Literature from 1740 to 1900: ENGL 2P25, 2P30, 2P31, 2P61, 2P91, 3P30, 3P31, 3P40, 3P41, 3P42, 4V30-4V39

List C: Literature of the 20th and 21st Centuries: ENGL 2P51, 2P52, 2P53, 2P56, 2P57, 2P62, 2P92, 2P96, 3P38, 3P39, 3P45, 3P46, 3P61, 3P63, 3V61, 4V40-4V49, 4V60-4V69

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**Honours Program**


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**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
- ENGL 4P85
- 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)
- three and one-half additional ENGL credits (see program notes 7 and 9)
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- six elective credits (see program note 9)

**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
- ENGL 4P85
- 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)
- one and one-half additional ENGL credits (see program note 9)
- three additional credits from COMM, PCUL, FILM
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- four elective credits (see program note 9)

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**Concurrent ENGL BA/BEEd**


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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.

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**BA with Major in Studies in Rhetoric and Professional Writing**


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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.

Seven ENGL and four WRIT credits are required for a BA with Major degree.

- One of ENGL 1F91, 1F95, 1F97
- WRIT 1P96
- 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)
- three additional ENGL credits (see program notes 6 and 9)
- one-half WRIT credit
- three additional WRIT credits numbered 2(*alpha*)00 or above
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- six elective credits (see program note 9)

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**Pass Program**


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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 9)
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- five elective credits (see program note 8)

## ENGLISH LANGUAGE AND LITERATURE

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### Combined Major Program

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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
- ENGL 4P85
- 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)
- two and one-half additional ENGL credits (see program notes 7 and 9)
- 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 9)
- one language credit other than English (see language requirement)

### English and Applied Linguistics

Consult the Applied Language studies entry for a listing of program requirements.

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### Certificate in Professional Writing

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The Department of English Language and Literature offers a Certificate in 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

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### Minor Program

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#### 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 Professional Writing

Students in other disciplines may obtain a Minor in Professional Writing by successfully completing the following courses with a minimum 60 percent overall average:

- One ENGL or WRIT credit numbered 1(alpha)00 to 1(alpha)99
- three additional WRIT credits numbered 2(alpha)00 or above

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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)

Archetypal and mythic dimensions of popular literary genres such as the detective novel, Gothic fiction, science fiction, the romance novel; comparison and contrast with other media.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of one ENGL credit numbered 1(alpha)90 to 1(alpha)99, COMM 1F90, FILM 1F94 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 ENGL credit numbered 1(alpha)90 to 1(alpha)99 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 ENGL credit numbered 1(alpha)90 to 1(alpha)99 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 ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 3P10.

## 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 or permission of the instructor.

## ENGL 2P24

**Early 17th-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 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 2P27

**Persuasive Discourse: Theoretical Foundations**

(also offered as WRIT 2P27)

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 ENGL 1(alpha)90 to 1(alpha)99, COMM 1F90, WRIT 1(alpha)80 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL (WRIT) 3P27.

## 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 2P51

**Literature of the British Empire**

(also offered as INTL 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.

## \* ENGL 2P52

**Postcolonial Literature**

(also offered as INTL 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.

## \* ENGL 2P53

**Southern African Literatures of Transition**

(also offered as INTL 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.

## 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 ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 2F55.

## ENGL 2P57

**Representing the World in Modern Fiction**

Major modes in the representation of human experience in modern fiction: romance, realism, modernism and postmodernism. Novels and short stories.

*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 in ENGL 2F55.

## ENGL 2P61

**American Literature to 1865**

Literature and literary culture from early European to the Civil War, including Puritan and Revolutionary era writers as well as such writers as Emerson, Thoreau, Hawthorne, Whitman, Melville and Dickinson.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

## ENGL 2P62

**American Literature after 1865**

Literature and literary culture from Mark Twain and Henry James and the beginnings of modernism to the present time emphasizing formal experimentation as well as the broadening of the canon.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

## ENGL 2P70

**Introduction to Literary Theory**

Approaches to meaning and interpretation in the contemporary study of literature.

## ENGLISH LANGUAGE AND LITERATURE

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P91

### Canadian Literature to 1920

Poetry, fiction and prose from Moodie and Haliburton to Lampman, Leacock and Pratt.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

ENGL 2P92

### Canadian Literature from 1920 to the Present

Poetry, fiction and prose from Grove and Callaghan to Ondaatje, Atwood and Findley.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

\* ENGL 2P94

### Women Writers to 1830

(also offered as WISE 2P94)

Prose, poetry and drama by women from the 14th to the early 19th century including such writers as Margery Kempe, Katherine Philips, Aphra Behn, Mary Wollstonecraft, and Jane Austen.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, WISE 1F90 or permission of the instructor.

\*ENGL 2P95

### Women Writers 1830 to the Present

(also offered as WISE 2P95)

Prose, poetry, drama and novels by women from the Victorian period to the present.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99, WISE 1F90 or permission of the instructor.

ENGL 2P96

### Valuing Modern Fiction

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, 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 in ENGL 2F55.

ENGL 2Q90

### 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.

ENGL 2Q91

### Studies in the History of English

The 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.

\* ENGL 2Q92

### Shakespeare 1590-1603

(also offered as GBLS 2Q92)

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 ENGL credit numbered 1(alpha)90 to 1(alpha)99, GBLS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL (GBLS) 2F97.

\* ENGL 2Q93

### Shakespeare 1603-1614

(also offered as GBLS 2Q93)

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 ENGL credit numbered 1(alpha)90 to 1(alpha)99, GBLS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL (GBLS) 2F97.

\* ENGL 2Q94

### Shakespeare's Comedies

(also offered as GBLS 2Q94)

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 ENGL credit numbered 1(alpha)90 to 1(alpha)99, GBLS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL (GBLS) 2F97.

\* ENGL 2Q95

### Shakespeare's Tragedies

(also offered as GBLS 2Q95)

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 ENGL credit numbered 1(alpha)90 to 1(alpha)99, GBLS 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL (GBLS) 2F97.

ENGL 2Q98

### 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 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 2V91.

# ENGL 2Q99

### Women in World Literature

(also offered as WISE 2Q99)

Feminist perspectives on representations of women and their writings including both English and translated texts.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2P92.

ENGL 2V90-2V99

### 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.

ENGL 2V93

### 2005-2006: Twentieth-Century Children's Fantasy Fiction

Developments in fantasy fiction for children

throughout the 20th century, including such writers as Tolkien, Lewis, Yolen and Rowling.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

#### # 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 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.

Completion of this course will replace previous assigned grade in WRIT (ENGL) 3F05 and ENGL (WRIT) 3P05.

#### # 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 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.

Completion of this course will replace previous assigned grade in WRIT (ENGL) 3F05 and ENGL (WRIT) 3P05.

#### # 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 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.

Completion of this course will replace previous assigned grade in ENGL 2P22.

#### 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.

Completion of this course will replace previous assigned grade in ENGL 2P40.

#### # ENGL 3P28

##### **Rhetorical Analysis**

(also offered as 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: one WRIT or two ENGL credits 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

##### **Twentieth-Century Literature: The Modern Period**

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.

Completion of this course will replace previous assigned grade in ENGL 3P33, 3P34 and 3P35.

#### ENGL 3P39

##### **Contemporary Literature in English**

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: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 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.

Completion of this course will replace previous assigned grade in ENGL 3F40.

#### ENGL 3P41

##### **The Gothic Novel**

The gothic novel from its beginnings to the 19th century by such writers as Walpole, Radcliffe, Lewis, Maturin, Shelley and Brontë.

*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 in ENGL 3F40.

## ENGLISH LANGUAGE AND LITERATURE

### 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.

Completion of this course will replace previous assigned grade in ENGL 3F40.

### 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.

Completion of this course will replace previous assigned grade in ENGL (GBLS) 3F42.

### 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.

Completion of this course will replace previous assigned grade in ENGL (GBLS) 3F42.

### 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.*

### ENGL 3P90

#### Auto/Biography

Biographical and autobiographical writings: types, reception, theoretical aspects.

*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.

Completion of this course will replace previous assigned grade in ENGL 3F92.

### 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.

Completion of this course will replace previous assigned grade in ENGL 3F92.

### \* ENGL 3P94

#### Literary Criticism

(also offered as GBLS 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 in ENGL (GBLS) 3F93.

### 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: The Language and the 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: The Language and the 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 3V60-3V69

#### Special Topics in Canadian Literature

### ENGL 3V61

#### 2005-2006: Responses to WWI in Canadian Literature

Poetry and prose written both during and directly following WWI. Authors may include Frank Prewett, Charles Harrison, Nellie McClung, Timothy Findley, Ted Plantos and Jane Urquhart, and up to contemporary literary responses to WWI.

*Lectures, seminar, 3 hours per week.*

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

### 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 3V96

#### 2005-2006: Feminist Rewritings of Traditional Tales

Rewritings of Traditional genres such as fairy tales and legends. Examination of the ways such rewritings participate in cultural constructions of gender and gender roles, in cultural debates and redefinitions of feminism, and in cultural change. Primarily fantasy novels and short stories.

*Seminar, 3 hours per week.*

Prerequisites: two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

### 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 4P10

**Language and Discourse: Theory and Practice**  
(also offered as 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), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE and ENED majors 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.  
Note: Students minoring in Writing may register. Contact the English Department.

# 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), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE and ENED 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.  
Note: Students minoring in Writing may register. Contact the English Department.

ENGL 4P70

**Contemporary Literary Theory: Structuralist and Poststructuralist Thought**

Advanced introduction to theoretical concerns. Structuralist theoreticians, such as Marx, de Saussure, Freud, Levi-Strauss and Barthes. Poststructuralist theoreticians, such as Derrida, Foucault and Lacan.

*Seminar, 3 hours per week.*

Restriction: open to ECUL, ENGL (single or combined) and ENED 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.

Completion of this course will replace previous assigned grade in ENGL 4F70.

ENGL 4P71

**Contemporary Theoretical Approaches**

Advanced introduction to such areas as cultural studies, postcolonial theory, subjectivity and identity, postmodernism and feminism.

*Seminar, 3 hours per week*

Restriction: open to ECUL, ENGL (single or combined) and ENED 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.

Completion of this course will replace previous assigned grade in ENGL 4F70.

ENGL 4P85

**Honours Seminar in English Studies**

Major theoretical and critical issues in English studies.

Restriction: open to ECUL, ENGL (single or combined) and ENED majors with approval to Year 4 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 ENED 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 ENED 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 ENED 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 4V60-4V69

**Topics in Contemporary Canadian Writing**

*Seminar, 3 hours per week.*

Restriction: open to ECUL, ENGL (single or combined) and ENED 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 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 ENED 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 4V90-4V99

**English Area Studies**

Studies in a specialized area of literature in English.

Restriction: open to ECUL, ENGL (single or combined) and ENED 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.

**WRITING**

WRIT 1P94

**Introduction to Academic Writing**

Writing papers for academic contexts; expression and analysis of scholarly arguments and related use of evidence; analysis of scholarly sub-genres and their functions; how and why

## ENGLISH LANGUAGE AND LITERATURE

styles and conventions differ across disciplines.  
*Lectures, lab, 3 hours per week.*

Completion of this course will replace previous assigned grade in WRIT 1P80 and 1P81.

### WRIT 1P96

#### **Introduction to Professional Writing**

Contexts and conventions of workplace and public genres of writing; selected rhetorical theories; assignments modelled on business, technical, journalistic and literary texts.

*Lectures, lab, 3 hours per week.*

### \* 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.

Completion of this course will replace previous assigned grade in WRIT 2P15.

### \* 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)

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 majors 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 or permission of the instructor.

Note: students minoring in Writing may register prior to the date specified in Registration guide. Contact the English Department.

Completion of this course will replace previous assigned grade in WRIT 3P09.

### \* WRIT 2P27

#### **Persuasive Discourse: Theoretical Foundations**

(also offered as ENGL 2P27)

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 WRIT 1(alpha)80 to 1(alpha)99, COMM 1F90, ENGL 1(alpha)90 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in WRIT (ENGL) 3P27.

### \* 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.

Completion of this course will replace previous assigned grade in WRIT (ENGL) 3F05 and ENGL (WRIT) 3P05.

### \* 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.

Completion of this course will replace previous assigned grade in WRIT (ENGL) 3F05 and ENGL (WRIT) 3P05.

### WRIT 3P16

#### **Organizational Discourses**

Relations between culture, discourse and the writing produced in organizational settings; rhetorics of business, management, law and

science; 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 or ENGL credits numbered 2(alpha)00 or above.

### \* WRIT 3P28

#### **Rhetorical Analysis**

(also offered as ENGL 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 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 4F99

#### **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 4P10

**Language and Discourse: Theory and Practice**  
(also offered as 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), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE and ENED majors 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.

Note: Students minoring in Writing may register. Contact the English Department.

\* 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), COMM (single or combined), LIAU, LING (single or combined), LISL (single or combined), LITE and ENED majors 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.

Note: Students minoring in Writing may register. Contact the English Department.

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.

# Environment

## Director

Anthony Ward

## Professor Emeritus

Robert C. Hoover

## Professors

Diane P. Dupont, Steven J. Renzetti

## Associate Professors

David T. Brown, Karen L. Krug, John Middleton, Anthony J. Ward

## Co-operating Faculty

Biological Sciences, Chemistry, Economics, Geography, Political Science and Sociology

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## General Information

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### Administrative Assistant

Sylvia Barlow

905-688-5550, extension 3292

Mackenzie Chown MC D474

<http://www.brocku.ca/envi>

The Centre for the Environment offers programs in conjunction with six other departments. It consolidates the former Environmental Sciences and Environmental Policy programs. The Centre provides a core of inter-disciplinary courses shared by BA and BSc students. The interdisciplinary core is complemented by courses from other academic disciplines, required context courses, and free elective space.

The Centre offers a Co-op program in Applied Environmental Science and Technology, four-year programs of study leading to a BA and BSc Honours in Environment, and three-year BA and BSc Pass degree programs with the following options: BA in Environment, with streams in Economics, Geography, Political Science, or Sociology; BSc in Environment with streams in Biological Sciences, Chemistry or Geography. As well the Centre offers a Minor and Certificate in Environment.

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## Program Notes

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1. Due to their primary focus on environmental sciences the following are designated as ENVI Science List courses: ENVI 2P04, 2P05, 2P09, 2P61, 2P92, 2P93, 2Q04, 3P01, 3V10-3V15, 4F92.

2. CHEM 3P41 and 4P41 are strongly recommended.

3. Students planning to pursue graduate studies in Economics should include ECON 3P91, 4P13 and 4P14 among their ECON electives.

4. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## BSc Honours Program

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### Biological Sciences stream

#### Year 1

- ENVI 1P90 and 1P91
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit

#### Year 2

- ENVI 2P28, 2P91 and 2Q04
- CHEM 2P42
- one-half credit from ENVI Science list (see program note 1)
- two credits from BIOL 2P05, 2P92, 2P93, 2P96, 2P98
- one-half elective credit

#### Year 3

- ENVI 3P02
- one ENVI credit
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- two BIOL credits numbered 2(alpha)90 or above
- one elective credit

#### Year 4

- ENVI 4F91 and 4F92 or BIOL 4F90 and 4F91
- ENVI 4P88
- one BIOL credit
- one BIOL credit numbered 3(alpha)90 or above
- one-half elective credit

### Chemistry stream

#### Year 1

- ENVI 1P90 and 1P91
- CHEM 1F92
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- one Humanities context credit
- one elective credit

#### Year 2

- ENVI 2P28, 2P91 and 2Q04
- CHEM 2P12 or 2P63
- CHEM 2P20, 2P32 and 2P42
- one-half credit from ENVI Science list (see program note 1)
- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92, 1P93

#### Year 3

- ENVI 3P02
- one ENVI credit
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- one credit from CHEM 3P20, 3P31, 3P32, 3P60
- one credit from CHEM 2P21, 3P20, 3P21, 3P31, 3P32, 3P40, 3P41, 3P60 (see program note 2)
- one elective credit

#### Year 4

- ENVI 4F91 and 4F92 or CHEM 4F90 and 4F91
- ENVI 4P88
- one CHEM credit
- one CHEM credit numbered 3(alpha)90 or above (see program note 2)
- one-half elective credit

### Physical Geography stream

#### Year 1

- ENVI 1P90 and 1P91
- CHEM 1F92
- GEOG 1F91
- GEOG 2P12 or MATH 1P98
- MATH 1P97
- one Humanities context credit

*Year 2*

- ENVI 2P28, 2P91 and 2Q04
- one-half credit from ENVI Science list (see program note 1)
- CHEM 2P42
- GEOG 2P11
- one and one-half credits from ENVI 2P04, 2P05, 2P09, GEOG 2P07, 2P13
- one-half elective credit

*Year 3*

- ENVI 3P02
- GEOG 3P56
- one ENVI credit
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- one GEOG credit numbered 2(alpha)90 to 3(alpha)99 from Group B (see Geography department calendar entry)
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from Group B or C (see Geography department calendar entry)
- one elective credit

*Year 4*

- ENVI 4F91 and 4F92 or GEOG 4F90 and one GEOG credit from group B or C (see Geography department calendar entry)
- GEOG 4F99
- one GEOG credit numbered 2(alpha) or above from group B or C (see Geography department calendar entry)
- one elective credit

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**Environmental Geoscience**

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Consult the Earth Sciences entry for a listing of program requirements

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**Applied Environmental Science and Technology Co-op (Honours only)**

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Students are advised to discuss with the Director the possibility of taking some third year biology courses during their second year, in order to expand the variety of courses open to them in their final year. For this purpose, ENVI 2P28, 2P91, 2P92 or 2P94 or the elective credit may be taken at a later stage in the program.

Students who do not successfully complete the Co-op work terms, but complete the requirement for the Niagara College certificate, will be awarded a BSc (Honours) Applied Environmental Science and Technology, with the Post Graduate certificate from Niagara College.

*Year 1*

- ENVI 1P90 and 1P91
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit

*Year 2*

- ENVI 2P28, 2P91 and 2Q04
- ENVI 2P92 or 2P94
- BIOL 2F01 and 2P05
- one credit from ENVI 2P09, BIOL 2P98, BTEC 2P09
- one-half elective credit
- SCIE 0N90

*Year 3*

Niagara College Post-graduate Certificate in Ecosystem Restoration (or Ecosystem Management)

Spring/Summer Sessions:

- ENVI 0N01

*Year 4*

- Fall Term:
- ENVI 0N02

Spring/Summer Sessions:

- ENVI 0N03

*Year 4 Winter Term and Year 5 Fall Term*

- ENVI 3P02 and 3P95
- one and one-half BIOL credits
- two BIOL credits numbered 3(alpha)90 or above
- one-half credit elective credit numbered 3(alpha)90 or above

Students with a minimum 75 percent average can, at the discretion of the Director, take ENVI 4F92 (thesis).

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**BSc Pass Program**

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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**BA Honours Program**

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**Economics stream**

*Year 1*

- ENVI 1P90 and 1P91
- ECON 1P91 and 1P92
- MATH 1P97 and 1P98
- one Humanities context credit
- one Science context credit

*Year 2*

- ENVI 2P28 and 2P91
- one ENVI credit
- ECON 2P21, 2P22, 2P90 and 2P92
- one-half ECON credit
- one-half elective credit

*Year 3*

- ENVI 3P02
- one-half credit from ENVI 3V10-3V15, 3V20-3V29, 3V30-3V34
- one ENVI credit numbered 2(alpha)90 or above
- ECON 3P21, 3P22, 3P27, 3P28, 3P90 and 3P91

*Year 4*

- ENVI 4F90 and 4F91, or ECON 4F90 and one ENVI credit numbered 2(alpha)90 or above
- one half ENVI credit numbered 3(alpha)90 or above
- ECON 3P97, 4P13 and 4P14
- one elective credit

**Human Geography stream**

*Year 1*

- ENVI 1P90 and 1P91
- GEOG 1F90
- GEOG 2P12 or MATH 1P98
- one Humanities context credit
- one Science context credit (GEOG 1F91 strongly recommended)
- one-half elective credit

*Year 2*

- ENVI 2P28 and 2P91
- GEOG 2P10
- one ENVI credit
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P07, 2P13
- one elective credit

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### Year 3

- ENVI 3P02
- GEOG 3P57
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- one ENVI credit numbered 2(alpha)90 or above
- one GEOG credit numbered 2(alpha)90 to 3(alpha)99 from Group A (see Geography department calendar entry)
- one-half GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group A or C (see Geography department calendar entry)
- one elective credit

### Year 4

- ENVI 4F90 and 4F91 or GEOG 4F90 and one GEOG credit from group A or C (see Geography department calendar entry)
- GEOG 4F99
- one GEOG credit numbered 2(alpha)90 from group A or C (see Geography department calendar entry)
- one elective credit

### Political Science stream

#### Year 1

- ENVI 1P90 and 1P91
- MATH 1P98
- one POLI credit numbered 1(alpha)90 to 1(alpha)99
- one Humanities context credit
- one Science context credit
- one-half elective credit

#### Year 2

- ENVI 2P28 and 2P91
- POLI 2P80
- one of POLI 2P91, 2P92, 2P93
- one ENVI credit
- one POLI credit
- one elective credit

#### Year 3

- ENVI 3P02 and 3P66
- POLI 3P91 or 3P92
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- one ENVI credit numbered 2(alpha)90 or above
- one POLI credit numbered 2(alpha)90 or above
- one elective credit

#### Year 4

- ENVI 4F90 and 4F91, or POLI 4F99, one-half ENVI credit and one-half elective credit numbered 3(alpha)90 or above
- ENVI 4P88

- two POLI credits numbered 3(alpha)90 or above
- one-half elective credit

### Sociology stream

#### Year 1

- ENVI 1P90 and 1P91
- MATH 1P98
- SOCI 1F90
- one Humanities context credit
- one Science context credit
- one-half elective credit

#### Year 2

- ENVI 2P28 and 2P91
- SOCI 2P11 and 2P13
- one ENVI credit
- one SOCI credit
- one elective credit

#### Year 3

- ENVI 3P02
- SOCI 3P00 and 3P01
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- one ENVI credit numbered 2(alpha)90 or above
- one SOCI credit
- one elective credit

#### Year 4

- ENVI 4F90 and 4F91, or SOCI 4F90, SOCI 4P01 and one-half SOCI credit
- SOCI 4F91 or one credit from SOCI 3P99, 4P10, 4P11, 4P15, 4P16
- one SOCI credit
- one-half SOCI credit numbered 3(alpha)90 or above
- one-half elective credit

### Environmental Economics (Honours only)

#### Year 2

Year 2 is now closed

#### Year 3

- ECON 3P27, 3P28, 3P31, 3P32, 3P90 and 3P97
- ENVI 3P02
- one of ERSC 3P33, GEOG 3P80, 3P81
- one credit from the chosen secondary area of study

#### Year 4

- ECON 4F90
- one ECON credit numbered 2(alpha)90 or above (see program note 3)
- one ECON credit numbered 3(alpha)90 or

- above (see program note 3)
- two elective credits

### Secondary Area of Study

Students choose a secondary area of study, normally in Biological Sciences, Environment or Human Geography. Alternative areas of study may be pursued with the approval of the Director.

#### Biological Sciences:

- one elective credit

#### Human Geography:

- one elective credit

#### Environment:

- one ENVI credit numbered 2(alpha)90 or above

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### BA Pass Program

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With the exception of the Economics stream, satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

### Economics

#### Year 1

- ENVI 1P90 and 1P91
- ECON 1P91 and 1P92
- MATH 1P97 and 1P98
- one Humanities credit
- one Science credit

#### Year 2

- ENVI 2P28 and 2P91
- one ENVI credit
- ECON 2P21, 2P22, P90 and 2P92
- one-half ECON credit
- one-half elective credit

#### Year 3

- ENVI 3P02
- one-half credit from ENVI 3V10-3V15, 3V20-3V29, 3V30-3V64
- one ENVI credit numbered 2(alpha)90 or above
- ECON 3P21 and 3P22
- one ECON credit numbered 2(alpha)90 or above
- one-half elective credit

**Combined Major Program**

Combinations with other departments may be allowed subject to a coherent plan of study approved in advance by both academic units. Please consult the Director for more information.

**Certificate in Environment**

The Certificate in Environment provides focussed training for those who already hold a degree, or have equivalent professional experience. Prospective students should consult with the Director before beginning the certificate program.

The Certificate is awarded upon completion of the following credits with a minimum 60 percent overall average:

- Four ENVI credits numbered 2(alpha)90 or above (chosen in consultation with the Director)
- MATH 1P98
- one-half COSC credit

The MATH/COSC requirement will be waived if equivalent courses have already been taken. Courses cannot be counted twice; therefore no ENVI course can count for both a degree and a certificate. (See "Certificate Requirements" under Academic Regulations.)

**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:

- ENVI 1P90, 1P91, 2P28, 2P91, 3P02 and 3P95
- one ENVI credit 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 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.

**ENVI 1P90**  
**Introduction to Sustainability**  
 Definitions, key characteristics and basic value assumptions of sustainability. Energy, materials and information flows; key components of built and natural environmental systems and our ability to influence them. Concepts of inter-disciplinarity. Integration of environmental, economic and socio-political factors in policy making. Theoretical bases of decision-making to meet the needs of the present without compromising the ability of future generations to meet their own needs.  
*Lectures, seminar, 3 hours per week.*

**ENVI 1P91**  
**Applied Environmental Policy**  
 Key environmental issues and the principles and policies that affect them. Environmental implications of human activity in natural and built environments from local to global scales. Case studies of principles of sustainability. Emphasis on policy options, problem solving, possibilities for creative social action and planned change.  
*Lectures, seminar, 3 hours per week.*  
 Prerequisite: ENVI 1P90 or permission of the instructor.

# ENVI 2P03  
**Urban Geography**  
 (also offered as GEOG 2P03)  
 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 ENVI and GEOG (single or combined) majors until date specified in Registration guide.  
 Prerequisite: GEOG 1F90 or permission of the instructor.

# ENVI 2P04  
**Introduction to Meteorology**  
 (also offered as ERSC 2P04 and 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, 3 hours per week.*  
 Restriction: open to ENVI, ERSC (single or combined) and GEOG (single or combined) majors until date specified in Registration guide.  
 Prerequisite: ERSC 1F01 (1F95), GEOG 1F91 or permission of instructor.

# ENVI 2P05  
**Earth Surfaces Processes**  
 (also offered as ERSC 2P05 and 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.*  
 Prerequisite: ERSC 1F01 (1F95), GEOG 1F91 or permission of the instructor.

# ENVI 2P09  
**Principles of Biogeography**  
 (also offered as ERSC 2P09 and 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.*  
 Prerequisite: one of CHEM 1F92, ERSC 1F01 (1F95), GEOG 1F91 or permission of the instructor.  
 Note: may not be taken concurrently with BIOL 2P05.  
 Completion of this course will replace previous assigned grade in BIOL 2P05.

# ENVI 2P28  
**Economics of the Environment**  
 (also offered as ECON 2P28)  
 Environmental problems and natural resource management. Real world applications and case studies including sustainable development,

## ENVIRONMENT

pollution, taxes, the crisis in Canada's commercial fisheries and valuing improvements to environmental quality.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 4.0 overall credits.

### \* ENVI 2P42

#### **Biodiversity Conservation**

(also offered as TOUR 2P42)

Conservation of species and ecosystems in ecological, social, and economic contexts. Co-existence of humans and wild life in parks, reserves, zoos, and productive landscapes.

*Lectures, seminar, field work, 3 hours per week.*

Restriction: students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in ENVI (TOUR) 2P92.

### ENVI 2P91

#### **Ethics, Equity and Environmental Thought**

The 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.*

Prerequisites: ENVI 1P90 and 1P91 or permission of the instructor.

### ENVI 2P93

#### **Materials, Waste and Recycling**

Overview of materials life cycles, waste management and recycling. Traditional waste management methods, technological disposal, modern integrated waste management. Logistics and limits of recycling. Waste reduction and environmentally sensible design. Disposables versus reusables. Composting and organic waste management. Optimal materials use and life cycle analysis. Waste management policy and legislation.

*Lectures, seminar, workshop, 3 hours per week.*

Prerequisites: ENVI 1P90, 1P91 and MATH 1P98 or permission of the instructor.

### \* ENVI 2P94

#### **Global Conventions on Environment and Development**

(also offered as INTL 2P94 and TOUR 2P94) 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.*

Prerequisites: ENVI 1P90 and 1P91 or INTL 1F90 (1P95) and MATH 1P98, or permission of the instructor.

### ENVI 2P95

#### **Human Services Planning**

Environmental policy decisions that integrate ecological and social service issues. Fulfilling human rights and obligations through universal access to basic necessities; realizing community objectives for enhanced quality of life through provision of social services. Policy planning to reduce the decline of communities and social services and to prevent crime, poverty, illness and illiteracy.

*Lectures, seminar, workshop, 3 hours per week.*

Prerequisites: ENVI 1P90 and 1P91 or permission of the instructor.

### # ENVI 2Q04

#### **Principles of Community Ecology**

(also offered as BIOL 2Q04)

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.

### ENVI 3F70

#### **International Field Course**

Intensive field course in another country in an area of study of environmental interest.

Restriction: open to ENVI majors, Minor and Certificate students with a minimum of 8.0 overall credits and permission of the Director.

Note: consult the Centre prior to registration. Students are expected to cover all their own expenses.

### \* ENVI 3F94

#### **International Field Course**

(also offered as INTL 3F94)

Intensive field course in another country, in an area of study of environmental interest.

Restriction: open to ENVI majors with a minimum of 8.0 overall credits and permission of the Director.

Prerequisite: one of ENVI 1P90 and 1P91, INTL 1F90 (1P95) or permission of the Director.

Note: a list of eligible modules will be posted in the fall term; consult the Centre for the

Environment for registration instructions. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade in ENVI 3F70.

### ENVI 3P01

#### **Environmental Chemistry**

Sources and sinks of natural and synthetic toxic chemicals. Physical and chemical properties of persistent and transient toxins, their modes of transport in the environment. Specific examples include dioxins, PCBs, PAHs, mercury, chlorinated pesticides. Introduction to chemical toxicology.

*Lectures, seminar, 4 hours per week.*

Restriction: open to BSc ENVI majors with a minimum of 9.0 overall credits.

Prerequisite: CHEM 2P42 or permission of the instructor

### ENVI 3P02

#### **Environmental Legislation and Case Studies**

Existing legislation pertaining to environmental planning and remediation of concern to environmental scientists. Case studies of Canadian environmental problems; the role of environmental scientists in implementing legislated regulations during the remediation process.

*Lectures, seminar, 3 hours per week.*

Restriction: open to ENVI majors, ENVI certificate students with a minimum of 9.0 overall credits or permission of the instructor.

### ENVI 3P03

#### **Sustainable Agriculture**

Critical analysis of definitions of policies for and approaches to agriculture in terms of sustainability principles.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI 1P90 and 1P91 or permission of the instructor

Completion of this course will replace previous assigned grade in ENVI 3V31.

### \* ENVI 3P49

#### **Gender and Environment**

(also offered as TOUR 3P49 and WISE 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 ENVI majors, ENVI certificate students, TOUR and WISE majors. Prerequisite: one of ENVI 1P90 and 1P91, WISE 2F90, 2P91, or permission of the instructor.



Note: students taking a Minor in Environmental or Women's Studies may register. Contact the Centre for the Environment.

# ENVI 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.

\* ENVI 3P70

**International Field Course**

(also offered as INTL 3P70)

Intensive field course in another country, in an area of study of environmental interest.

Restriction: open to ENVI majors with a minimum of 8.0 overall credits and permission of the Director.

Prerequisite: one of ENVI 1P90 and 1P91, INTL 1F90 (1P95) or permission of the Director.

Note: a list of eligible modules will be posted in the fall term; consult the Centre for the Environment for registration instructions. Students are expected to pay their own expenses.

ENVI 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 ENVI majors with a minimum of 9.0 overall credits and permission of the Director.

Prerequisites: ENVI 1P90 and 1P91.

ENVI 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 ENVI majors with a minimum of 9.0 overall credits and permission of the Director.

Prerequisites: ENVI 1P90 and 1P91.

ENVI 3P92

**Field Course**

Intensive field course focussing on a topic of environmental relevance.

Restriction: open to ENVI majors with a minimum of 8.0 overall credits and permission of the Director.

Prerequisites: ENVI 1P90 and 1P91 or permission of the Director.

Note: consult the Centre for the Environment for availability and registration instructions. Students are expected to pay their own expenses.

ENVI 3P95

**Ecosystem-Based Planning**

Principles of ecosystem-based planning of human settlements and natural infrastructure, using the Niagara region, the Toronto waterfront, 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: students must have a minimum of 9.0 overall credits.

Prerequisites: ENVI 2P28 and 2P91 or permission of the instructor.

ENVI 3V10-3V15

**Interdisciplinary Perspectives on Pollution**

Specific topics to be selected.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI 1P90 and 1P91 or permission of the Director.

Note: each course in this series uses guest speakers from a variety of disciplines and backgrounds to explore one aspect of pollution.

ENVI 3V20-3V24

**Interdisciplinary Perspectives on Human Settlements**

Specific topics to be selected.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI 1P90 and 1P91 or permission of the Director

Note: each course in this series uses guest speakers from a variety of disciplines and backgrounds to explore one aspect of human settlements.

\* ENVI 3V25-3V29

**Interdisciplinary Perspectives on International Issues**

(also offered as INTL 3V25-3V29)

Specific topics to be selected.

*Lectures, seminar, workshop, 3 hours per week.*

Prerequisites: one of ENVI 1P90 and 1P91, INTL 1F90 (1P95) or permission of the Director.

Note: each course in this series uses guest speakers from a variety of disciplines and backgrounds to explore one aspect of international environmental policy issues.

ENVI 3V60-3V65

**Selected Issues in Urban Policy**

Examination of specific issues of urban policy.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI 1P90 and 1P91 or permission of the Director.

Note: these may vary from year to year.

ENVI 3V90-3V99

**Special Topics**

Tutorial/seminar/special projects or directed readings course in an area of environment and development not represented by other courses. Restriction: consult the Director for permission to register.

Prerequisites: ENVI 1P90 and 1P91.

ENVI 4F90

**BA Honours Thesis**

Original research project under faculty supervision.

Restriction: open to ENVI majors with approval to year 4 (honours).

Co-requisite: ENVI 4F91.

Note: scheduled tutorials and class meetings are held throughout the year. An oral defence of the final report will be required. Consult the Director prior to registration.

Completion of this course will replace previous assigned grade in ENVI 4F92.

ENVI 4F91

**Literature Research and Seminar**

Detailed study of the literature relevant to the topic of the honours thesis, under faculty supervision.

Restriction: open to ENVI majors with approval to year 4 (honours).

Co-requisite: ENVI 4F90 or 4F92.

Note: scheduled tutorials and class meetings are held throughout the year. An oral defence of the final report will be required. The review will be included in the thesis. Consult the Director prior to registration.

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### ENVI 4F92

#### **BSc Honours Thesis and Research Seminar**

Original research project under faculty supervision.

Restriction: open to ENVI majors with approval to year 4 (honours).

Co-requisite: ENVI 4F91.

Note: scheduled tutorials and class meetings are held throughout the year. An oral defence of the final report will be required. Consult the Director prior to registration.

Completion of this course will replace previous assigned grade in ENVI 4F90.

### \* ENVI 4P21

#### **Issues of the Global System**

(also offered as INTL 4P21 and TOUR 4P21)

Power relationships, economic factors, cultural patterns, globalization and extra-state phenomena such as pollution and disease. The role and possibilities for leadership, with a view to leadership development.

*Seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or permission of the Director.

### ENVI 4P88

#### **Interdisciplinary Practicum and Seminar**

Research on a focused environmental problem or task emphasizing problem definition, establishment of terms of reference, report preparation, communication and formal presentation.

*Seminar, workshop, 3 hours per week.*

Restriction: open to ENVI majors with approval to year 4 (honours).

Note: carried out under the direction of a faculty member, working either within the university or in collaboration with a government agency, NGO, or private sector agency.

## CO-OP COURSES

### ENVI 0N01

#### **Co-op Work Placement I**

First Co-op work placement (4 months) with an approved employer.

Restriction: open to ENVI Co-op students.

### ENVI 0N02

#### **Co-op Work Placement II**

Second Co-op work placement (4 months) with an approved employer.

Restriction: open to ENVI Co-op students.

### ENVI 0N03

#### **Co-op Work Placement III**

Third Co-op work placement (4 months) with an approved employer.

Restriction: open to ENVI Co-op students.

### ENVI 0N04

#### **Co-op Work Placement IV**

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to ENVI Co-op students.

### ENVI 0N05

#### **Co-op Work Placement V**

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to ENVI Co-op students.

## Film Studies

*This program is offered through the Department of Communications, Popular Culture and Film*

### Chair

Marian Bredin

### Undergraduate Program Adviser

Russell Johnston

Jeanette Sloniowski (as of July 1, 2005)

### Director, Co-operative Programs

Cindy Dunne

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### General Information

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#### Administrative Assistant

Bridget Cahill

905-688-5550, extension 4290

Scotia Bank Hall 308

<http://www.brocku.ca/cpcff>

The Department of Communications, Popular Culture and Film offers three separate programs of study. 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, four-year Co-op programs leading to a BA Honours degree in Communications Studies or Popular Culture and a four and one-half year program leading to a BA Honours degree in Film Studies are available.

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 have opportunities to engage in film and video production in upper year courses, in class assignments and as part of the student Spring Festival.

The Film Studies 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, Film Studies 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 Film Studies 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 Film Studies 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.

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### Program Notes

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1. Some FILM courses are cycled every two years. Students should consult with the Undergraduate Program Adviser in planning course patterns and for recommended electives.

2. Year 3 courses are normally restricted to students with at least three 2(alpha)00 credits or special permission of the instructor.

3. FREN 1F90 is strongly recommended for Honours students intending to continue their studies at the graduate level.

4. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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### Honours Program

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#### Year 1

- FILM 1F94
- COMM 1F90
- one Social Science context credit
- one Science context credit
- one elective credit

#### Year 2

- FILM 2F90, 2P20, 2P21, 2P54, 2P56, 2P91 and 2P94
- one elective credit

#### Year 3

- FILM 3P20, 3P21 and 3P91
- FILM 3P54 or 3P56
- FILM 3P93 or 3P95
- one credit from FILM 3P94, 3P96, 3P97, 3P98
- one and one-half elective credits

#### Year 4

- FILM 4P30 and 4P31
- FILM 3P54 or 3P56 (not taken in year 3)
- FILM 3P93 or 3P95 (not taken in year 3)
- two credits from FILM 2P80, 2P81, 2P82, 3F27, 3F28, 3P94, 3P96, 3P97, 3P98, 4F80, 4F99, 4P04, COMM 2F50, 2F92, 2F95, 2P15, 3P14, 3P93, 4P23, POLI 2V71
- one elective credit

### Film Studies 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

- FILM 1F94
- COMM 1F90
- one Social Science context credit
- one Science context credit
- one elective credit (MGMT 1P51 and 1P52 strongly recommended)

#### Year 2

- FILM 0N90, 2F90, 2P20, 2P21, 2P54, 2P56, 2P91 and 2P94
- one elective credit (MKTG 2P51 and 2P52 strongly recommended)

#### Year 3

- Fall Term:
- FILM 0N01

Winter Term:

- FILM 3P54 or 3P56
- FILM 3P93 or 3P95
- one and one-half elective credits

Spring/Summer Sessions:

- FILM 0N02

#### Year 4

- FILM 3P20, 3P21, 3P91 and 4P31
- FILM 3P54 or 3P56 (not taken in year 3)
- FILM 3P93 or 3P95 (not taken in year 3)

## FILM STUDIES

•one credit from FILM 3P94, 3P96, 3P97, 3P98

•one credit from FILM 2P80, 2P81, 2P82, 3F27, 3F28, 3P94, 3P96, 3P97, 3P98, 4F80, 4F99, 4P04, COMM 2F50, 2F95, 2P15, 3P14, 3P93, 4P23, POLI 2V71

Spring/Summer Sessions:

•FILM 0N03

*Year 5*

Fall Term:

•FILM 4P30

•one credit from FILM 2P80, 2P81, 2P82, 3F27, 3F28, 3P94, 3P96, 3P97, 3P98, 4F80, 4F99, 4P04, COMM 2F50, 2F95, 2P15, 3P14, 3P93, 4P23, POLI 2V71

•one elective credit

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### Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Combined Major Program

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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, 2P54, 2P56, 2P91, 2P94, 3P20, 3P21, 4P30 and 4P31

•two credits from FILM 2P20, 2P21, 3F27, 3F28, 3P54, 3P56, 3P91, 3P93, 3P94, 3P95, 3P96, 3P97, 3P98, 4F80, 4F99, 4P04

### Pass

•FILM 1F94, 2F90, 2P54, 2P56, 2P91 and 2P94

•one credit from FILM 2P20, 2P21, 3F27, 3F28, 3P20, 3P21, 3P54, 3P56, 3P91, 3P93, 3P95, 3P96, 3P97, 3P98

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### Minor in Professional Writing

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With the exception of students in the Co-op stream, it is possible for Film Studies majors to earn a Minor in Professional Writing. For details see the calendar entry for the Department of English Language and Literature.

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### Description of Courses

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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

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### Prerequisites and Restrictions

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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 and Research Methods

Approaches to film history emphasizing classical Hollywood cinema, European art cinema and the avant-garde.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 1F94.

#### # FILM 2P20

##### Theories of Popular Culture

(also offered as COMM 2P20 and PCUL 2P20)

Historical, theoretical and critical approaches to various forms of popular culture (film, music, television, literature, periodicals and advertising).

*Lectures, seminar, lab, 4 hours per week.*

Restriction: open to FILM (single or combined), COMM (single or combined) and PCUL (single or combined) majors until date specified in Registration guide.

Prerequisite: one of FILM 1F94, CANA 1F91, COMM 1F90 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 (single or combined) and PCUL (single or combined) 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 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.

Completion of this course will replace previous assigned grade in FILM (COMM/SOCI) 2F54.

#### \* 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 film lab.*

Prerequisite: one of FILM 1F94, COMM 1F90, or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM (COMM) 2F97.

#### # FILM 2P80

##### Italian Cinema

(also offered as ITAL 2P80)

Major film directors and cultural trends in Italian cinema. Films studied include those by De Sica, Rossellini, Fellini, Antonioni, Bertolucci, Wertmüller, Amelio and Moretti.

*Lectures, 3 hours per week; plus film lab.*

Note: given in English. Knowledge of Italian not necessary.

# FILM 2P81

**Ethics in Film**

(also offered as PHIL 2P81)

Critical examination of the development and resolution of moral problems and ethical dilemmas arising in selected (mostly recent) films.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 1F94, one credit in PHIL or permission of the instructor.

# FILM 2P82

**Latin American and Iberian Film**

(also offered as PORT 2P82 and SPAN 2P82)

Spanish and Latin American representations of identity crises involving issues of nationality, ethnicity, gender 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.*

Note: Spanish and Portuguese language films with English subtitles. Given in English. Knowledge of Spanish not necessary. Spanish majors complete written assignments and exams in Spanish.

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.

Completion of this course will replace previous assigned grade in FILM 2P95.

\* 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.

FILM 3F27

**Basic Production: Film**

Introduction to the theory and practice of film techniques: critique of films 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 is limited to 15 students.

Materials fee required.

\* 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 (single or combined), PCUL (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: one of FILM 2P20 and 2P21, 2F90 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 (single or combined), PCUL (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: FILM 3P20 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F50.

\* FILM 3P54

**Issues in Documentary Film**

(also offered as COMM 3P54 and SOCI 3P54) Advanced studies in selected aspects of documentary film and other media.

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: FILM 2P54

Completion of this course will replace previous assigned grade in FILM (COMM/SOCI) 2F54.

\* 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 film lab.*

Prerequisite: FILM 2P56

Completion of this course will replace previous assigned grade in FILM (COMM) 2F97.

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

Completion of this course will replace previous assigned grade in FILM 2P95.

## FILM STUDIES

### 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 and Television Genres

(also offered as COMM 3P94 and PCUL 3P94)

Genre theory and its application to popular film and television. Topics may include the western, situation comedy, docudrama, film noir, or melodrama.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: FILM 2P20 and 2P21.

### 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)  
Construction 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 FILM 2F90, FILM 2P20 and 2P21, WISE 2P91, or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F97.

### \* FILM 3P98

#### Gender and Sexuality in Contemporary Cinema

(also offered as COMM 3P98 and WISE 3P98)

Representation of gender and sexuality via ideology, feminism, queer theory, and spectatorship in a range of contemporary film and video texts.

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F97.

### FILM 3V50-3V59

#### Special Topics in Film Studies

*Lectures, lab, seminar, 4 hours per week.*

Prerequisites: FILM 2F90, 2P20 and 2P21 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 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 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 Undergraduate Program Adviser.

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 4P04

#### Advanced Studies in Film and Television Genres

(also offered as PCUL 4P04)

Advanced theoretical and methodological approaches to popular film and television genres.

*Lectures, lab, seminar, 4 hours per week.*

Restriction: open to FILM (single or combined) and PCUL (single or combined) majors with approval to year 4 (honours) and permission of the Department.

Prerequisite: FILM 3P94.

### # 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, lab, seminar, 4 hours per week.*

Restriction: open to FILM (single or combined), COMM (single or combined) and PCUL (single or combined) majors with 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, lab, seminar, 4 hours per week.*

Restriction: open to FILM (single or combined), COMM (single or combined) and PCUL (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

### FILM 4V50-4V59

#### Research in Film

*Seminar, 3 hours per week.*

Restriction: open to FILM (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

**CO-OP COURSES**

FILM 0N01

**Co-op Work Placement I**

First co-op work placement (4 months) with an approved employer.

Restriction: open to FILM Co-op students.

FILM 0N02

**Co-op Work Placement II**

Second co-op work placement (4 months) with an approved employer.

Restriction: open to FILM Co-op students.

FILM 0N03

**Co-op Work Placement III**

Third co-op work placement (4 months) with an approved employer.

Restriction: open to FILM Co-op students.

FILM 0N04

**Co-op Work Placement IV**

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to FILM Co-op students.

FILM 0N05

**Co-op Work Placement V**

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to FILM Co-op students.

FILM 0N90

**Co-op Training and Development**

Provides a 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 FILM Co-op students.

## French

*This program is offered through the Department of Modern Languages, Literatures and Cultures*

### Chair

Ernesto J. Virgulti

Alexandre L. A. Amprimoz (as of July 1, 2005)

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## General Information

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### Administrative Assistant

Alison J. Rothwell

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 French, its literature and culture. 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.

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## Program Notes

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1. Students with Ontario grade 12U or OAC standing or equivalent in French take FREN 1F90, and may not take FREN 1P01, 1P02 or 1P03 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 grade 12U or OAC standing or equivalent take FREN 1P01, 1P02 or 1P03, according to their background. Students with Ontario grade 9 French or equivalent or less take 1P01. Those with Ontario grade 10 or 11 or equivalent take 1P02, provided they have completed these

courses less than five years before registering, otherwise students should register in 1P01. Those with 1P02 take 1P03.

3. FREN 1P01, 1P02 and 1P03 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 noted in the course description, courses numbered 2(alpha)00 or above are taught in the language while courses numbered 1F90 and below are taught in the language to the extent possible.

5. FREN 1P01, 1P02 and 1P03 may be taken for degree credit, but cannot be used to meet requirements for major programs in French. However, any two of these courses may be included in a Minor Program in French.

6. Language courses numbered 1P01, 1P02, 1P03, 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.

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 all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- FREN 1F90 (see program note 1)
- one Science context credit
- one Social Science 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 2(alpha)90 or above (see program note 7)
- two elective credits

### Year 4

- FREN 4P03
- one FREN or MLLC credit numbered 2(alpha)90 or above (see program note 7)
- two and one-half FREN or MLLC credits numbered 3(alpha)90 or above (see program note 7)
- one elective credit

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## Concurrent BA (Honours)/BEd

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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.

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### Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Combined Major Program

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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 Science context credit
- one Social Science 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
- one and one-half FREN or MLLC credits numbered 2(alpha)90 or above (see program note 7)
- two credits from the co-major discipline
- one elective credit

#### Year 4

- FREN 4P03
- one-half FREN or MLLC credit numbered 2(alpha)90 or above (see program note 7)
- one FREN or MLLC credit numbered 3(alpha)90 or above (see program notes 7 and 9)
- 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.

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### Minor in French

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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
- one FREN literature and/or culture credit numbered 2(alpha)00 or above

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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 1F90

##### Intermediate French

Grammar review; literary, cultural and journalistic readings; practice in reading, writing, oral expression and comprehension.

*Lectures, 3 hours per week; language lab, 1 hour per week, alternating weeks.*

Prerequisite: FREN 1P03 or Ontario grade 12 or OAC French, Français or French immersion, or equivalent.

#### FREN 1P01

##### Introductory French I

Basic French: vocabulary, structures, pronunciation, spoken French. Oral and written exercises.

*Lectures, 3 hours per week; language lab, 1 hour per week, alternating weeks.*

Note: taken by students with only Ontario grade 9 French (or equivalent) or less. 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. Failure to do so will result in deregistration from the course.

#### FREN 1P02

##### Introductory French II

Continuation of FREN 1P01. Basic French: vocabulary, structures, pronunciation, spoken French. Oral and written exercises.

*Lectures, 3 hours per week; language lab, 1 hour per week, alternating weeks.*

Prerequisite: FREN 1P01 or permission of the instructor.

Note: may be taken by students with no more than Ontario grade 10 or 11 French (or equivalent). Such 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. Failure to do so will result in deregistration from the course.

#### FREN 1P03

##### Introductory French III

Continuation of FREN 1P02. Basic French: vocabulary, structures, pronunciation, spoken French. Oral and written exercises.

*Lectures, 3 hours per week; language lab, 1 hour per week, alternating weeks.*

Prerequisite: FREN 1P02.

Note: students other than those who have FREN 1P02 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. Failure to do so will result in deregistration from the course.

#### FREN 2F00

##### Grammar and Composition

Intensive grammar review; literary expression; composition; critical written and oral expression through discussion of general topics.

*Lectures, 3 hours per week.*

Prerequisite: FREN 1F90.

#### FREN 2F03

##### Literature and Culture: The French-Speaking World

Literature in its cultural contexts. Works from different genres, historical periods and cultural

## FRENCH

traditions. Dissertation, technical vocabulary, rhetorical terminology and interpretative concepts.

*Lectures, 3 hours per week.*

Prerequisite: FREN 1F90.

Note: students may not concurrently register in FREN 2F03 and any French literature or culture course numbered 2(alpha)90 or higher. Completion of this course will replace previous assigned grade in any French literature course numbered 2(alpha)90 or higher.

### FREN 2P44

#### Children's Literature in French: The Picture Book

Selection of 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.*

Prerequisite: FREN 1F90.

### FREN 2P98

#### 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.

Completion of this course will replace previous assigned grade in FREN 2P57.

### FREN 2P99

#### Culture and Civilization of France to 1700

Prehistory to the end of the 17th century; art, music, architecture and aesthetics; intellectual trends; history, politics and society.

*Lectures, 3 hours per week.*

Prerequisite: FREN 1F90.

Completion of this course will replace previous assigned grade in FREN 2P65.

### FREN 3P03

#### Composition and Stylistics

Advanced grammar and stylistics of contemporary French. Applications to composition.

*Lectures, 3 hours per week.*

Prerequisite: FREN 2F00.

### FREN 3P44

#### Children's Literature in French: Beyond the Picture Book

Novels, poetry and theatre from the 17th century to the present emphasizing the contemporary period; texts from France, Québec and other francophone regions.

Theory of children's literature.

*Lectures, seminar, 3 hours per week.*

Prerequisites: 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, seminar, 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, seminar, 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, seminar, 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, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

### FREN 3P91

#### Seventeenth-Century French Literature

Classicism; religious and moral currents; texts chosen from various genres; authors may include Corneille, Molière, Racine, Mme de La Fayette, La Fontaine, Pascal, Descartes.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

### FREN 3P92

### Eighteenth-Century French Literature

Narrative, theatre and philosophical writing; critical voices, ideological concerns; authors may include Montesquieu, Marivaux, Voltaire, Diderot, Rousseau, Beaumarchais, Laclos.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

### FREN 3P93

#### African Literature in French

Narrative, poetry and theatre. Historical, cultural, ideological and theoretical concerns.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

### FREN 3P94

#### Caribbean Literature in French

Narrative, poetry and theatre. Historical, cultural, ideological and theoretical concerns.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

### FREN 3P95

#### French Literature and Culture in Film

New Wave and popular cinema; adaptations of French novels; critical texts. Directors may include Godard, Truffaut, Resnais, Rohmer, Besson, Chabrol, Lelouch, Duras.

*Lectures, seminar, 3 hours per week, plus film lab.*

Prerequisite: FREN 2F00 and 2F03.

### FREN 3P96

#### 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.

### FREN 3P98

#### French Language and Literature of the Middle Ages

Texts chosen from various genres, from the *chanson de geste* to the 15th-century narrative. Introduction to Old French.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F03 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit in literature.

Completion of this course will replace previous assigned grade in FREN 4P12.

### FREN 3P99

#### 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 and two FREN credits numbered 3 (*alpha*)00 or above, with at least one-half credit in literature.

Completion of this course will replace previous assigned grade in FREN 4P20.

#### 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.*

Prerequisites: FREN 2F03, 3P03 and one-half credit (taught in French) in literature numbered 2(*alpha*)90 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.*

Prerequisites: FREN 3P03 and MLLC 3P94 or permission of the instructor.

#### 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, seminar, 3 hours per week.*

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 2(*alpha*)90 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, seminar, 3 hours per week.*

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 2(*alpha*)90 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, seminar, 3 hours per week.*

Prerequisites: FREN 2F03; two FREN or

MLLC credits numbered 2(*alpha*)90 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, seminar, 3 hours per week.*

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 2(*alpha*)90 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**

Twentieth-century approaches to literary criticism: sociological, phenomenological, psychoanalytic approaches; structuralism, semiotics, narratology, deconstruction. Bibliographical research.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F03; two FREN or MLLC credits numbered 2(*alpha*)90 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 2(*alpha*)90 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) or Bachelor of Science (Honours or Pass) Degree.

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## Bachelor of Arts

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The 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.

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 Registrar's Office.

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## Program Requirements

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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, Education and Business. 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 COSC/MATH credit or one credit in a language other than English
- one Humanities context credit
- one Science context credit
- one Social Science context credit
- eleven elective credits

Seven credits (maximum) may be numbered 1(alpha)00 to 1(alpha)99. At least eight credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or

above. The majority of the credits earned must be offered by Departments/Centres within the Faculties of Humanities and Social Sciences.

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## Brock University/Niagara College Degree Completion Pilot Project

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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.

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## Program Requirements

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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.

### Pass

To complete the BA program in General Studies, students will be required to complete at least seven Brock credits (in addition to CANA 1F91.)

- One credit in MATH or COSC or one credit in a language other than English
- one Science context credit
- two and one-half SOCI credits
- two and one-half elective credits (excluding SOCI courses)

Two credits (maximum) may be numbered 1(alpha)00 to 1(alpha)99. At least five credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Bachelor of Science

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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 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.

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## Program Requirements

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### 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 COSC or MATH credit
- one Humanities context credit
- one Science context credit
- one Social Science 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
- one COSC or MATH credit
- one Humanities context credit
- one Science context credit
- one Social Science context credit
- two elective credits

# Geography

## Chair

Anthony Shaw

## Undergraduate Program Advisers

Hugh J. Gayler, Michael Ripmeester

## GISC Program Adviser

Marilyne Jollineau

## Professor Emeritus

John N. Jackson

## Professors

David Butz, John Menzies, Keith J. Tinkler

## Associate Professors

Hugh J. Gayler, Alun Hughes, Michael Ripmeester, Anthony B. Shaw

## Assistant Professors

Jeffrey Boggs, Christopher Fullerton, Marilyne Jollineau, Ute Lehrer, Catherine Jean Nash, Dragos Simandan

## Adjunct Professor

Deborah Leslie

## Senior Demonstrator/Instructor

Daryl F. Dagesse

## General Information

### Administrative Assistant

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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.

In addition, the Department offers four-year Honours programs leading to either a BA or BSc degree in Geography with a concentration in Geographic Information Science. 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.

In most courses there is emphasis on practical work. This involves 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 many 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 internship program in year 4, enabling students to obtain work experience while still at the University.

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.

## Collaborative Study in Policing and Criminal Justice

The Collaborative Studies in 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 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. Consult the Policing and Criminal Justice listing for further details. Enrolment is limited.

## Program Notes

1. Certain courses (GEOG 2P07, 2P12, 2P13, 2Q96, 3F91, 3F95, 3P01, 3P04, 3P05, 3P07, 3P50, 3P76, 3P79, 3P83, 3P92, 3P95, 4F99, 4P02, 4P03, 4P07) 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. Two Social Science credits are required and must be other than GEOG.
6. Three Science credits are required and

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must be from: BIOL/BCHM, CHEM, COSC, ERSC, MATH and PHYS (excluding ASTR 1F00, BIOL 1F25, CHEM 1P00, COSC 1P93, ERSC 1F90, 1P92, 1P93 and SCIE 1F30). One of these credits must be numbered 2(*alpha*)00 or above.

7. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

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### Course Offerings

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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 geographical techniques in cartography and related studies.

#### Group A:

- GEOG 1F90
- GEOG 2P01, 2P02, 2P03, 2P06, 2P10, 2P12, 2P13
- GEOG 3F90, 3F91, 3F92, 3F95, 3F96, 3P45, 3P46, 3P47, 3P50, 3P51, 3P53, 3P57, 3P60, 3P65, 3P66, 3P69, 3P74, 3P79, 3P80, 3P83, 3P84, 3P86, 3P87, 3P88, 3V60-3V69, 3V90-3V99
- GEOG 4F90, 4F99, 4P46, 4P60, 4P61, 4P66, 4P70, 4P71, 4P75, 4P92, 4P95, 4P96

#### Group B:

- GEOG 1F91
- GEOG 2P04, 2P05, 2P09, 2P11, 2P12, 2P13, 2P15, 2P16, 2P17, 2P97
- GEOG 3F91, 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, 4P95, 4P96

#### Group C:

- GEOG 2P07
- GEOG 3P01, 3P04, 3P05, 3P07, 3P95
- GEOG 4P02, 4P03, 4P07

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### Bachelor of Arts in Human Geography

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#### Honours

##### Year 1

- GEOG 1F90 and GEOG 1F91 (may be taken in Year 2)
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one elective credit

##### 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)
- 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 group C
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from either group A or C
- two elective credits

##### Year 4

- GEOG 4F99
- three credits from GEOG 4F90, 4P02, 4P03, 4P07, 4P46, 4P60, 4P61, 4P66, 4P70, 4P71, 4P75, 4P92, 4P95, 4P96 or two credits from this group and one GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group A or C
- one elective credit

#### Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Bachelor of Science in Physical Geography

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#### Honours

##### Year 1

- GEOG 1F91 and 1F90 (may be taken in Year 2)
- MATH 1P97
- one Humanities context credit

- one Science context credit (see program note 6)
- one-half elective credit

##### Year 2

- GEOG 2P07, 2P11 and 2P12
- one and one-half credits from GEOG 2P04, 2P05, 2P09, 2P13
- one Science credit (see program note 6)
- 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 C
- one-half GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group B or C
- one Science credit (see program note 6)
- one elective credit

##### Year 4

- GEOG 4F99
- three credits from GEOG 4F90, 4P02, 4P03, 4P07, 4P12, 4P13, 4P26, 4P28, 4P80, 4P95, 4P96 or two credits from this group and one GEOG credit numbered 2(*alpha*)90 to 3(*alpha*)99 from group B or C
- one elective credit

#### Pass

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Bachelor of Arts in Geography

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#### Honours

##### Year 1

- GEOG 1F90 and 1F91
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one elective credit

##### 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 5)
- 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**

- GEOG 4F99
- two GEOG credits numbered 3(alpha)90 or above from groups A, B, C
- one GEOG credit numbered 2(alpha)90 or above from groups A, B, C
- one elective credit

**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 6)
- one-half elective credit

**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 6)
- one-half elective credit

**Year 3**

- 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
- 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 Science credit (see program note 6)
- one elective credit

**Year 4**

- GEOG 4F99
- two GEOG credits numbered 3(alpha)90 or above from groups A, B, C
- one GEOG credit numbered 2(alpha)90 or above from groups A, B, C
- one elective credit

**Pass**

Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

**Policing and Criminal Justice Program**

Consult the Policing and Criminal Justice entry for a listing of the program requirements.

**Concurrent BA/BEEd and BSc/BEEd**

The Department of Geography and the Faculty of Education co-operate in offering two Concurrent BA (Honours)/BEEd programs and two BSc (Honours)/BEEd programs. The Geography BA (Honours)/BEEd 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)/BEEd 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)/BEEd, 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**

The Department of Geography participates in combined major programs with the following departments: Biological Sciences (BSc), 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 and 4F99
- GEOG 3P56 or 3P57

In addition, BSc Combined majors are required to complete MATH 1P97.

**Concentration in Geographic Information Science**

The Concentration in Geographic Information Science combines a training in the technical fields of cartography, geographic information systems (GIS), remote sensing and surveying with an education in a chosen academic discipline, which may be any subject that deals with spatial information relating to the Earth's surface. One combination, Geography and Geographic Information Science, has been developed to date and is described below.

This is a four-year Honours program and combines Brock courses with courses offered through Niagara College's postgraduate certificate program in Geographic Information Systems. Students completing the program receive a Brock Honours degree in Geography with a concentration in Geographic Information Science, as well as a postgraduate

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certificate in Geographic Information Systems from Niagara College. The degree may be a BA or BSc, depending on whether the human or physical side of geography is emphasized.

The program caters to the increasing demand in society for professionals who possess both a solid technical background in GIS and related fields 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 postgraduate certificate program in Geographic Information Systems.

2. In Year 3 courses are taken at Niagara College in the Fall Term and at Brock in the Winter Term. In Year 4 courses are taken at Brock in the Fall Term and at Niagara College in the Winter Term. The Niagara College courses are taught at the Glendale Campus and are of 14 weeks duration with an additional week for exams.

3. Upon completion of the required courses at Niagara College, with a minimum 70 percent overall average, students will have 4.5 transfer credits applied to their Brock degree. Students who successfully complete GEOG 2P07, 3P04, 3P05, 3P07 and 4P07 and receive the 4.5 transfer credits will satisfy the concentration in Geographic Information Science. Students in this program may not take GEOG 3P01 and 4F99 for credit.

4. Courses in the Niagara College certificate program:

GISC 9112 - GIS Project Management  
 GISC 9114 - GIS Database Concepts  
 GISC 9115 - Introduction to ArcGIS  
 GISC 9116 - Computers and GIS Programming  
 GISC 9117 - Spatial Analysis  
 GISC 9118 - Foundations of Mapping

GISC 9216 - Digital Image Processing  
 GISC 9230 - Surveying and Data Collection  
 GISC 9231 - Introduction to Remote Sensing  
 GISC 9232 - Applications in GIS  
 GISC 9234 - Applied GIS Thesis/Project  
 GISC 9235 - Advanced ArcGIS

Brock students are exempt from GISC 9216 and 9231, and take either GISC 9232 or 9235.

### BA (Honours) Geography with Concentration in Geographic Information Science

#### Year 1

- GEOG 1F90 and 1F91
- COSC 1P95
- one Social Science context credit (see program note 6)
- one Humanities context credit
- one-half elective credit

#### Year 2

- GEOG 2P07, 2P10, 2P12, 3P05 and 3P07
- one and one-half credits from GEOG 2P01, 2P02, 2P03, 2P06, 2P13
- one elective credit

#### Year 3

- One and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group A
- GEOG 3P04
- one-half elective credit (see program note 2)

#### Year 4

- GEOG 3P57 and 4P07
- one GEOG credit numbered 3(alpha)90 or above from group A
- one-half GEOG credit numbered 2(alpha)90 or above from group A
- one-half elective credit (see program notes 2 and 7)

### BSc (Honours) Geography with Concentration in Geographic Information Science

#### Year 1

- GEOG 1F90 and 1F91
- COSC 1P95
- one Science context credit (see program note 6)
- one Humanities context credit
- one-half elective credit

#### Year 2

- GEOG 2P07, 2P11, 2P12, 3P05 and 3P07
- one and one-half credits from GEOG 2P04,

2P05, 2P09, 2P13  
 •MATH 1P97  
 •one-half elective credit

#### Year 3

- One and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from group B
- GEOG 3P04
- one-half elective credit (see program note 2)

#### Year 4

- GEOG 3P56 and 4P07
- one GEOG credit numbered 3(alpha)90 or above from group B
- one-half GEOG credit numbered 2(alpha)90 or above from group B
- one-half elective credit (see program notes 2 and 7)

### 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.

### 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**

Spatial distribution of social well-being in Western society: work, housing, crime, gender, race, ethnicity and disability in relation to underlying structures of inequality, exploitation and alienation.

*Lectures, seminar, 4 hours per week.*

Restriction: open to GEOG (single or combined) ENVI majors until date specified in Registration guide.

Prerequisite: GEOG 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 3P52.

## \* GEOG 2P02

**Economic Geography**

(also offered as LABR 2P02)

Theory and concepts of economic geography and the work of economic geographers. Organization of goods and services producing activities and their locational patterns. Overview of the geography of economic change in Canada and the United States since 1930.

*Lectures, seminar, 3 hours per week.*

Restriction: open to GEOG (single or combined), ENVI and LABR majors until date specified in Registration guide.

Prerequisite: GEOG 1F90 or LABR 1F90 (1P91 and 1P92) or permission of the instructor.

## \* GEOG 2P03

**Urban Geography**

(also offered as ENVI 2P03)

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 ENVI majors until date

specified in Registration guide.

Prerequisite: GEOG 1F90 or permission of the instructor.

## \* GEOG 2P04

**Introduction to Meteorology**

(also offered as ENVI 2P04 and 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, 3 hours per week.*

Restriction: open to GEOG (single or combined), ENVI and ERSC majors until date specified in Registration guide.

Prerequisite: GEOG 1F91, ERSC 1F01 (1F95) or permission of instructor.

## # GEOG 2P05

**Earth Surface Processes**

(also offered as ENVI 2P05 and 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.*

Prerequisite: GEOG 1F91, ERSC 1F01 (1F95) or permission of the instructor.

## \* 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), ENVI and PCUL majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, COMM 1F90 or permission of the instructor.

## \* GEOG 2P07

**Foundations of Geomatics**

(also offered as ERSC 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 GEOG (single or combined), ENVI and ERSC majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F90, 1F91, ERSC 1F01 (1F95) or permission of the instructor.

## # GEOG 2P09

**Principles of Biogeography**

(also offered as ENVI 2P09 and 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.*

Prerequisite: one of GEOG 1F91, CHEM 1F92, ERSC 1F01 (1F95) or permission of the instructor.

Note: may not be taken concurrently with BIOL 2P05.

Completion of this course will replace previous assigned grade in BIOL 2P05.

## 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 ENVI 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.*

Prerequisites: GEOG 1F91 or ERSC 1F01 (1F95); MATH 1P98 or permission of the instructor.

## GEOG 2P12

**Quantitative Research Design and Methodology**

Introduction to basic techniques in descriptive and inferential statistics, including techniques for examining geographical patterns and processes, and examples from both human and

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physical geography. Techniques include correlation coefficients, coefficients of localization, location quotients, Moran's I and other spatial autocorrelation techniques, bivariate and multi-variate regression. The relationship between research questions and research designs.

*Lectures, lab, 4 hours per week*

Restriction: open to GEOG (single or combined) and ENVI majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, 1F91 or permission of the instructor.

### 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 ENVI majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F90, 1F91, ENVI 1P90 and 1P91, ERSC 1F01 (1F95), 1F90, INTL 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 3P76.

### # 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 (1F95), 1F90, BIOL 1F90.

Completion of this course will replace previous assigned grade in ERSC 2P02.

### #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. Carbonate sediment and rock classification; environments of formation, deposition and distribution in the oceans; carbonate diagenesis and dolomitization. Local field trips and carbonate

sedimentology stratigraphy exercise.

*Lectures, lab 6 hours per week.*

Prerequisite: GEOG 1F91 or ERSC 1F01 (1F95).

Completion of this course will replace previous assigned grade in ERSC 2P10.

### #GEOG 2P17

#### **Earth Science Methods**

(also offered as ERSC 2P17)

Introduction to the study and description, in the field and 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 (1F95).

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 in ERSC 2P12.

### 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, 4 hours per week.*

Note: major credit will not be granted to GEOG majors.

Completion of this course will replace previous assigned grade in GEOG 2P91.

### \*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) and OEVI majors until date specified in Registration guide.

Prerequisite: GEOG 1F91 or permission of the instructor.

### GEOG 3F90

#### **London England**

Growth and development of London as a world 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 a workable urban environment.

Restriction: permission of the Department.

Note: students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade in GEOG 3F92 and 3M90.

### 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.

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.

Note: students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade in GEOG 3F90 (3M90).

### GEOG 3F95

#### **Greek Viticulture and Wines**

Examination of the combined influence of Greek topoclimatology and viticulture practices in relation to wine production in selected regions through visits to archaeological and historical sites. Role of wine in ancient Greece.

Restriction: permission of the Department.

Note: students are expected to pay their own expenses.

### GEOG 3P01

#### **Topographic Surveying**

Principles and techniques of topographic surveying. Use of tape, compass, clinometer, level, plane table, transit, theodolite, tachymeter, electronic distance meter and GPS receiver. Mapping using CADD software.

*Lectures, lab, field work, 5 hours per week.*

Restriction: open to GEOG (single or

combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P07 or permission of the instructor.

#### 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) 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)

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 Idrisi32.

*Lectures, lab, 5 hours per week.*

Restriction: open to GEOG (single or combined) and 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 using Idrisi32.

*Lectures, lab, 4 hours per week.*

Restriction: open to GEOG (single or combined) 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) 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) and ERSC (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P04 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 3P10.

#### # 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 (2P10) or permission of the instructor.

#### GEOG 3P26

##### Glacial Soils and Sediments

(also offered as ERSC 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: 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.

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### 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 suburbanisation, 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) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P03, 2P06 or permission of the instructor.

### GEOG 3P47

#### Regional Economic Growth and Change

Models of regional growth and change and the qualitative and quantitative techniques used to substantiate or topple these models. Theories of trade and regional specialization and the long-term dynamics of circular and cumulative causation in driving the formation of urban agglomerations throughout the contemporary world economy.

*Lectures, seminar, 4 hours per week*

Restriction: open to GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P02 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.

*Seminar, 3 hours per week.*

Restriction: open to GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P13, SPMA 2P05, TOUR 2P18, RECL 2P10, POLI 2F20, 2F30, SOCI 2P73 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 3P92.

### \* 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) 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) majors until date specified in Registration guide.

Prerequisites: GEOG 2P03 or 2P06; 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 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 in GEOG 3P56.

### GEOG 3P60

#### Geography of Transportation

Geographical aspects of transportation with particular emphasis on 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) 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 TOUR 3P65)

Provides overview of tourism as it intersects with rural development theory, processes and planning. Examines 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) and TOUR majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, TOUR 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG (TOUR) 3V60.

### 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) majors until date specified in Registration guide.

Prerequisite: GEOG 2P03 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 3V66.

## GEOG 3P69

**Geography of Cultural Industries**

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) majors until date specified in Registration guide.

Prerequisites: GEOG 2P01 or 2P06; GEOG 2P02 or permission of the instructor.

## \*GEOG 3P74

**Geography and Gender**

(also offered as COMM 3P74 and WISE 3P74) Work of feminist geographers. Relationships between gender and space with respect to the organization of the city, architecture of the home, design of the shopping mall, the media, fear, homelessness, gentrification and employment.

*Lectures, seminar, 4 hours per week.*

Restriction: open to GEOG (single or combined), COMM and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P02, 2P03, 2P06, WISE 2P90, 2P91, COMM 2P20 and 2P21 or permission of the instructor.

## \*GEOG 3P79

**Nature, Development and the Politics of Knowledge**

(also offered as INTL 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 knowledges of nature and of their translation into environmental and development policies.

*Lectures, seminar, 4 hours per week.*

Restriction: open to GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: one of GEOG 2P13, ENVI 2P28, 2P91, 2P92, 2P94, POLI 2F20, 2F30, INTL 2P52, SOCI 2P73, 2P85, WISE 2P96, HIST 2P99 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 2Q96 (2P96).

## \*GEOG 3P80

**Geography and International Development**  
(also offered as INTL 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) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, INTL 1F90 (1P95) 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, seminar, 4 hours per week.*

Restriction: open to GEOG (single or combined) and ERSC majors until date specified in Registration guide.

Prerequisite: one of GEOG 1F90, 1F91, ERSC 1F01(1F95) 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) 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) majors until date specified in Registration guide.

Prerequisites: GEOG 2P06 and 2P10 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) majors until date specified in Registration guide.

Prerequisites: GEOG 2P06 and 2P10 or permission of the instructor.

## GEOG 3P88

**Globalization and Sustainability**

Phenomenon of globalization in relation to theories of sustainability. Changing spatial and power relations occurring through the globalization of economic, political, social, cultural and environmental spheres. Global sustainability principles in the contexts of local and regional «survival» under changing global conditions.

*Lectures, seminar, 4 hours per week.*

Restriction: open to GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 2P02, 2P06 or permission of the instructor.

Note: GEOG 3P84 strongly recommended.

## \*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 Idrisi32 and MapInfo Professional. Discussion of legal, ethical, management and other issues relating to GIS.

*Lectures, lab, 5 hours per week.*

Restriction: open to GEOG (single or combined) and ERSC 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.

*Lectures, lab, 5 hours per week.*

Restriction: consult the Department regarding permission to register.

Prerequisite: GEOG 2P17 (ERSC 2P12).

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: permission of the Department.

Note: students contemplating a thesis must consult with the Department at the end of year 3. Regulations governing the thesis may be obtained from the Administrative Assistant. 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: permission of the Department.

GEOG 4P02

#### **Topographic Science**

Independent study of an approved topic selected from the fields of surveying, remote

sensing, geographical information systems and cartography.

*Lab, 3 hours per week.*

Prerequisite: one of GEOG 3P01, 3P04, 3P05, 3P07, 3P95 or permission of the instructor.

GEOG 4P03

#### **Advanced Cartography**

Research, discussion and synthesis of a selected issue in modern cartography or the compilation and design of a map illustrative of a specific theme.

*Lab, 3 hours per week.*

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 data 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.*

Prerequisite: GEOG 3P07 or permission of the instructor.

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.*

Prerequisites: GEOG 2P04 and 3P10 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.*

Prerequisites: GEOG 2P04 and 3P10 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**

(also offered as INTL 4P46)

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.*

Prerequisites: GEOG 1F90; GEOG 3P45, 3P47 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG (INTL) 3P46.

GEOG 4P60

#### **Advanced Urban-Economic Geography**

Conceptual and theoretical background to recent developments in global cities and service industries.

*Seminar, 3 hours per week.*

Prerequisites: one GEOG credit numbered 2(alpha)90 to 3(alpha)99 from group A.

Completion of this course will replace previous assigned grade in 4F50.

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.*

Prerequisite: GEOG 4P60 or permission of the instructor.

Completion of this course will replace previous assigned grade in 4F50.

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.*

Prerequisite: GEOG 3P66 (3V66) 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.*

Prerequisite: one of GEOG 3P52, 3P53, 3P86, 3P87 or permission of the instructor.

Completion of this course will replace previously assigned grade in GEOG 4F51, 4F61 and 4F64.

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.*

Prerequisite: GEOG 4P70 or permission of the instructor.

Completion of this course will replace previously assigned grade in GEOG 4F51, 4F61 and 4F64.

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.*

Prerequisite: one of GEOG 3P50 (3P92) 3P74, 3P79 (2P96 or 2Q96), COMM 3P15, 3P93, HIST 3P52 (3Q92), 3P75, POLI 3P21, 3P33, PSYC (3F10), 3P33, SOCI 3P66 or permission of the instructor.

#GEOG 4P80

**Dendrochronology**

(also offered as BIOL 4P80 and ERSC 4P80) Principles and use of dendrochronology to study forest dynamics, geomorphic events and paleoenvironmental change; use of tree growth in the study of climate and environmental factors; measurement and statistical analysis of tree growth records.

*Lectures, lab, local field trip, 6 hours per week.*

Prerequisite: one of GEOG 2P09, BIOL 2P05, 2Q04.

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: 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.

# Great Books/Liberal Studies

## *Director*

Michael Driedger, History

## *Associate Professor*

Michael Driedger

## *Assistant Professor*

Sally Hickson

## *Participating Faculty*

Michael Berman (Philosophy), Leah Bradshaw (Political Science), Corrado J.A. Federici (Modern Languages, Literatures and Cultures), Peter Landey (Music), Ingrid Makus (Political Science), William Mathie (Political Science), Francine McCarthy (Earth Sciences), Thomas M. Mulligan (Management, Marketing and Human Resources), Angus A. Somerville (English Language and Literature)

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## General Information

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### *Administrative Assistant*

Barb Alexander

905-688-5550, extension 4752

MacKenzie Chown D332

<http://www.brocku.ca/greatbooks>

The Centre for Great Books/Liberal Studies provides an opportunity for the exploration and discussion of those questions which arise when education is directed towards the freedom of the fully examined life.

Questions of human nature and purpose and of our relationship to the natural order, for example, are examined primarily through analysis and discussion of the great works of human reason and imagination.

The program seeks to develop the skills and habits of inquiry, analysis, argument and expression needed for a rigorous treatment of these questions.

The program is made up of a set of closely related core courses that are intended to provide an integrated liberal education, to be cumulative and to furnish the basis for an intellectual community of students and

faculty. The Great Books/Liberal Studies Program must be either combined with a major in another discipline or taken as a minor. Students combining Great Books/Liberal Studies with a major concentration in Mathematics or Science will usually be exempted from the Science context requirement and may petition for exemption from the second language requirement.

The focus of the program is the Great Books core seminars (GBLS 1F90, 2P70, 2P93, 2P94, 3P90, 3P93, 4P10, 4P70) that meet, when possible under the guidance of two faculty leaders, twice weekly. Leaders for this seminar are drawn from a variety of disciplines and faculties of the University.

The other courses in the Great Books/Liberal Studies Program are intended both to provide for a kind of learning not possible in the seminar itself and also to enhance the quality and rigour of the inquiry and discussion that the seminar is intended to engender.

Each student in the program is assigned a faculty adviser for regular and incidental consultation. Students in year 4 are required to prepare a major essay on some aspect of Great Books/Liberal Studies, relating it to work in their other major, under the guidance of a faculty member.

A non-credit series of lectures supplements the Great Books/Liberal Studies Program. The lectures will illuminate the works and issues addressed in the program from a variety of perspectives. Students also attend concerts, art exhibitions and dramatic productions. Students are expected to attend the lectures and cultural events, since these constitute an integral part of the Great Books/Liberal Studies Program.

## Great Books Seminars

The Great Books Seminars (GBLS 1F90, 2P70, 2P93, 2P94, 3P90, 3P93, 4P10, 4P70) are open to all students, but students majoring in and those taking a minor in Great Books/Liberal Studies will have first access. Students who complete GBLS 1F90, 2P94, 3P90, 4P10, and one and one-half credits from GBLS 1P93, 2P70, 2P99, 3P00, 4P01-4P07, 4V00-4V09 are deemed to have satisfied the Social Science context requirement.

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## Language Requirement for Humanities Majors

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Students in the Centre for Great Books/Liberal Studies 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.

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## Program Notes

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1. HIST 4F99 or POLI 4F99 may be substituted for GBLS 4P99 if the topic selected for the History or Political Science Honours thesis is approved by the Director of Great Books/Liberal Studies.
2. In planning their programs students should note that not all GBLS 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 3P20 is offered in alternate years. A student in year 3 when PHYS 3P20 is not offered should take an additional one-half credit from GBLS courses listed in year 3, and one-half credit less from the GBLS courses listed under Year 4.
6. Students electing to take GBLS 3F01 require one-half elective credit in Year 3.
7. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.



### Bachelor of Arts in Great Books/Liberal Studies

#### Honours

Students may take a combined major in Great Books/Liberal 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.

- GBLS 1F90, 1P91, 2P91, 2P94, 3P90, 4P10 and 4P99
- two credits from GBLS 1P93, 1P99, 2P20, 2P70, 2P92, 2P93, 2P94, 2Q98, 3F01, 3P93, 3P99, 3V90-3V99, 4P40, 4P70
- one credit from GBLS 1F98, 2P20, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q96, 2Q97, 2Q98, 3F01, 3P00, 3P93, 3P95, 3P99, 4P01, 4P02, 4P04, 4P06, 4P40, 4P70, 4V00-4V09, 4V70-4V79
- one language credit (see language requirement)
- one Science context credit (SCIE 1F30 recommended)

#### Great Books/Liberal Studies and Business (Honours only)

In co-operation with the Faculty of Business, the Centre for Great Books/Liberal Studies offers a combined major leading to a Bachelor of Arts (Honours) in Great Books/Liberal Studies 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

- GBLS 1F90 and 1P91
- ACTG 1P91
- ECON 1P91 and 1P92
- MGMT 1P93
- MATH 1P98
- one language credit (see language requirement) or one Science context credit

#### Year 2

- GBLS 2P92 and 2P94
- one of GBLS 2P20, 2P70, 2P91, 2P93, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q96, 2Q97, 2Q98, 3P00
- ACTG 2P12
- ECON 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- the language credit or Science context credit not taken in year 1

#### Year 3

- GBLS 3P90 and 4P10
- FNCE 3P93
- MKTG 3P24
- OBHR 3P42
- OPER 2P91
- one and one-half GBLS credit numbered 2(*alpha*)90 level or above
- one-half elective credit

#### Year 4

- GBLS 4P99
- MGMT 4P90
- one GBLS credit numbered 3(*alpha*)90 or above
- two and one-half credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER (see program note 3)
- one-half elective credit

#### Great Books/Liberal Studies and History (Honours only)

In co-operation with the Department of History, the Centre for Great Books/Liberal Studies offers a combined major program in Great Books/Liberal Studies and History, especially for students wishing to combine a study of change over time with a focus on the literary and cultural achievements of the past. A variety of combinations are possible; the following program is suggested for students interested in cultural history.

- GBLS 1F90, 1P91, 2P94, 3P90, 4P10 and 4P99 (see program note 2)
- one of HIST 1F95, 1F96, HIST 1P92 and 1P93
- HIST 2P99, 3P00 and 4F99
- one credit from GBLS 1P93, 1P99, 2P20, 2P70, 2P92, 2P93, 3P93, 3P99, 3V90-3V99
- two and one-half credits from GBLS 1F98, 2P70, 2P91, 2P92, 2P93, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q98, 3F01, 3P00, 3P93, 3P95, 3P99, 3V90-3V99, 4P01,

- 4P02, 4P04, 4P06, 4P40, 4P70, 4V00-4V09, 4V70-4V79
- three HIST credits
- one HIST credit numbered 4V00-4V69
- FREN 1F90 or one language credit (see language requirement)
- one Science context credit (SCIE 1F30 recommended)
- four elective credits

#### Great Books/Liberal Studies and Music (Honours only)

In co-operation with the Department of Music, the Centre for Great Books/Liberal Studies offers a combined major program in Great Books/Liberal Studies and Music. This program is designed especially for students interested in the interdisciplinary study of music; students will have the opportunity to consider music within the context of the great philosophical, literary and scientific works of our cultural tradition.

- GBLS 1F90, 1P91, 2P94, 3P90, 4P10 and 4P99 (see program note 2)
- MUSI 1F50, 1F90, 1P83, 2F90, 2P83, 2Y05, 2Y06, 3Y05 and 3Y06
- one credit from GBLS 1P93, 1P99, 2P20, 2P70, 2P92, 2P93, 3P93, 3P99, 3V90-3V99
- two and one-half credits from GBLS 1F98, 2P20, 2P70, 2P91, 2P92, 2P93, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q98, 3F01, 3P00, 3P93, 3P95, 3P99, 3V90-3V99, 4P01, 4P02, 4P04, 4P06, 4P40, 4P70, 4V00-4V09, 4V70-4V79
- one credit from MUSI 2P51, 2P52, 3P96, 3P97, 4P51
- two MUSI credits
- one Science context credit
- one language credit (see language requirement)
- three elective credits

#### Great Books/Liberal Studies and Political Science (Honours only)

In co-operation with the Department of Political Science, the Great Books/Liberal Studies Program offers a combined major program in Great Books/Liberal Studies and Political Science. The Honours program is designed to furnish a liberal education especially for students with an interest in political philosophy, Canadian politics and law.

## GREAT BOOKS/LIBERAL STUDIES

### Year 1

- GBLS 1F90 and 1P91
- one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 (POLI 1P91 recommended)
- FREN 1F90 or one language credit (see language requirement)
- one-half elective credit
- one Science context credit

### Year 2

- GBLS 2P91, 2P92 and 2P94
- one half credit from GBLS 2P20, 2P70, 2P93, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q98, 3P00, 3P93, 3P95
- POLI 2F12 and 2P80
- one POLI credit
- one-half elective credit

### Year 3

- GBLS 3P90 and 4P10
- POLI 3P18
- POLI 3P91 or 3P92
- one credit from GBLS 2P93, 2P99, 2Q90, 2Q91, 2Q98, 3F01, 3P00, 3P93, 3P95, 3P99, 3V90-3V99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P40, 4P70, 4V00-4V09, 4V70-4V79
- one of POLI 2P93, 3P04, 3P07, 3P71
- one-half POLI credit numbered 2(*alpha*)90 or above
- one elective credit

### Year 4

- GBLS 4P99 (see program note 2)
- one credit from GBLS 3P93, 3P95, 3P99, 3V90-3V99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P70, 4V00-4V09, 4P40, 4V70-4V79
- POLI 4P14 or 4P19
- one credit from POLI 4P01 (recommended), 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4V00-4V09
- two elective credits

### Pass Program

- GBLS 1F90, 1P91 and 2P94
- two credits from GBLS 1F98, 1P93, 1P99, 2P20, 2P70, 2P91, 2P92, 2P93, 2P94, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q96, 2Q97, 2Q98, 3F01, 3P00, 3P99, 3V90-3V99
- one credit from GBLS 3P90, 3P93, 3P99, 4P10, 4P70

- one language credit (see language requirement)
- one Science context credit (SCIE 1F30 recommended)

### Bachelor of Science in Great Books/Liberal Studies

Great Books/Liberal Studies 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 Great Books/Liberal Studies 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 Great Books/Liberal Studies majors are deemed satisfied by successful completion of the program.

### Great Books/Liberal Studies and Physics (Honours only)

In co-operation with the Department of Physics, the Centre for Great Books/Liberal Studies offers a combined major program in Great Books/Liberal Studies 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

- GBLS 1F90 and 1P91
- MATH 1P01 and 1P02
- PHYS 1P21 or 1P91
- one of PHYS 1P22, 1P23, 1P92, 1P93
- one and one-half elective credits (see program note 4)

### Year 2

- GBLS 2P93 and 2P94
- MATH 2F05
- one credit from GBLS 1F98, 2P20, 2P70, 2P92, 2P99, 2Q90, 2Q91, 2Q98, 3P00
- one credit from PHYS 2P20, 2P31, 2P50 (recommended)
- one elective credits

### Year 3

- PHYS 3P20 (see program note 5)
- one of GBLS 2P91, 2P92, 2P99, 2Q90, 2Q91, 2Q98, 3F01, 3P00, 3P95, 3P99, 3V90-3V99, 4P01, 4P02, 4P04, 4P06, 4V00-4V09, 4V70-4V79
- two credits from PHYS 3P35, 3P36, 3P41, 3P70, 3P91
- one credit from GBLS 3P90, 3P93, 4P10, 4P70
- one elective credit (see program note 6)

### Year 4

- GBLS 4P99
- one credit from GBLS 3P90, 3P93, 4P10, 4P70 (not taken in year 3)
- one and one-half credits from GBLS 2P92, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q98, 3P00, 3P95, 3P99, 3V90-3V99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P40, 4P70, 4V00-4V09, 4V70-4V79
- one credit from PHYS 4F90, 4P30, 4P41, 4P51, 4P52, 4P70
- one elective credit (see program note 7)

### Certificate Program

The Centre for Great Books/Liberal Studies also offers a Certificate in Great Books/Liberal Studies. 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.

The Certificate is awarded upon completion of the following courses with a minimum overall average of 60 percent:

- GBLS 1F90, 2P94, 3P90 and 4P10
- two and one-half credits from GBLS 1F98, 1P91, 1P93, 1P99, 2F97, 2P20, 2P70, 2P91, 2P92, 2P93, 2P99, 2Q90, 2Q91, 2Q92,

2Q93, 2Q94, 2Q95, 2Q98, 3F01, 3P00, 3P95, 3P99, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P40, 4P70, 4V70-4V79

See "Certificate Requirements" under Academic Regulations.

#### Minor in Great Books/Liberal Studies

Students in other disciplines can obtain a minor in Great Books/Liberal Studies within their degree program by successfully completing the following courses listed below with a minimum 60 percent overall average:

- GBLS 1F90, 2P94, 3P90 and 4P10
- two and one-half credits from GBLS 1F98, 1P91, 1P93, 1P99, 2P20, 2P70, 2P91, 2P92, 2P93, 2P99, 2Q90, 2Q91, 2Q92, 2Q93, 2Q94, 2Q95, 2Q98, 3F01, 3P00, 3P93, 3P95,, 3P99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P40, 4P70, 4V70-4V79

#### 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.

GBLS 1F90

#### Great Books Seminar I: The Individual and Society

Important works of Western art, literature, philosophy, science and theology from the Greco-Roman world to the 20th century.

*Lectures, seminar, 3 hours per week.*

# GBLS 1F98

#### Introduction to the History of Art: from Prehistory to the Present

(also offered as VISA 1F98)

Critical survey of major styles in architecture, sculpture and painting from antiquity to the 20th century. Principal monuments, buildings or studio artifacts, their period characteristics, the artist's cultural role and the critical or theoretical trends that have influenced our reading of the history of art.

*Lectures, seminar, 3 hours per week.*

Note: no studio work. Materials fee required.

Completion of this course will replace previous assigned grade in VISA 1F90.

GBLS 1P91

#### Introduction to Logic and Critical Thinking

Kinds of argument and their employment in everyday affairs as well as in science and the humanities. Topics include the syllogism, analogical arguments, arguments from authority, and inductive arguments. Instruction in the construction and analysis of arguments.

*Lectures, seminar, 3 hours per week.*

GBLS 1P93

#### Great Books World Tour

Selections from the masterworks of world literature and thought, examining human nature from earliest times to the 20th century. Texts include selections from the Gilgamesh epic (perhaps the first written story), Plato, Confucius, Lady Murasaki's *Tale of Genji* (perhaps the first novel), Jonathan Swift, *The 1001 Nights*, Mao Zedong, Martin Luther King, Jr., Leacock, and short works by many Nobel Prize winners.

*Lectures, seminar, 3 hours per week.*

GBLS 1P99

#### Cultural Expressions

Fieldtrips to concerts, exhibitions, plays and readings; discussions.

*Fieldtrips, seminar, 3 hours per week.*

Note: there is an additional field trip fee associated with this course to cover admission and possibly transportation to venues.

# GBLS 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

GBLS 2P70

#### Religions of the World

Development and character of major religious traditions and worldviews.

*Lectures, seminar, 3 hours per week.*

# GBLS 2P91

#### Political Theory I

(also offered as POLI 2P91)

Socratic origins of political philosophy as understood by Plato and Aristotle and their Christian, Jewish and Islamic successors. Machiavelli's critique.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GBLS 1F90, or one POLI credit numbered 1(alpha)90 to 1(alpha)99.

Completion of this course will replace previous assigned credit in POLI 2F90.

GBLS 2P92

#### Introduction to Argumentation and Rhetoric

Fundamentals of rational persuasion. Classical dialectics and refutation, arguments that make special appeals such as ad hominem arguments, the different functions of linguistic communication, fallacies and the rules governing interpersonal dispute resolution.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GBLS 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in GBLS 1P92.

GBLS 2P93

#### Order and Chaos in the Cosmos

Important work of science, art, literature and philosophy addressing the origin and structure of the universe, and its association with the divine. Readings include selections from the Bible, Lucretius, Ovid, Thomas Aquinas, Galileo, Isaac Newton, Rene Descartes, Albert Einstein, Stephen Hawking, and Carl Sagan.

*Seminar, 3 hours per week.*

GBLS 2P94

#### Great Books Seminar II - Epics and Ethics: Journeys of Self-Discovery

Works of art, literature, biography, autobiography, philosophy and theology from the classical period to the late 16th century concerned with concepts of responsibility to self and to society. Readings include Augustine, Dante, Machiavelli, Vasari and Marlowe.

*Seminar, 3 hours per week.*

Prerequisite: GBLS 1F90 or permission of the Director.

## GREAT BOOKS/LIBERAL STUDIES

Completion of this course will replace previous assigned grade in GBLS 2F90.

### # GBLS 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 GBLS and HIST (single or combined) majors until date specified in Registration guide.

### # GBLS 2Q90

#### **Art in Revolution: 1750-1851**

(also offered as VISA 2P90)

Art's role and function within the paradigm shifts of the modern world, its relation to politics, social and cultural change. Neoclassicism and the principal movements leading up to the French Revolution and beyond, Romanticism, Realism and the Industrial Revolution.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or permission of the instructor.

### # GBLS 2Q91

#### **Modernism, Modernity and Contemporaneity: 1851-1907**

(also offered as VISA 2P91)

Thematic examination of individuality, contemporaneity and progress in the context of the period's cultural, political and technological changes.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or permission of the instructor.

### # GBLS 2Q92

#### **Shakespeare 1590-1603**

(also offered as ENGL 2Q92)

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: 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 in GBLS (ENGL) 2F97.

### # GBLS 2Q93

#### **Shakespeare 1603-1614**

(also offered as ENGL 2Q93)

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: 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 in GBLS (ENGL) 2F97.

### # GBLS 2Q94

#### **Shakespeare's Comedies**

(also offered as ENGL 2Q94)

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: 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 in GBLS (ENGL) 2F97.

### # GBLS 2Q95

#### **Shakespeare's Tragedies**

(also offered as ENGL 2Q95)

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: 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 in GBLS (ENGL) 2F97.

### # GBLS 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 1F98 or permission of the instructor.

### # GBLS 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 credit from CLAS 1P91, 1P92, 1P95, 1P97.

Note: open to students who lack the prerequisite but have taken one credit in ENGL or GBLS.

Completion of this course will replace previous assigned grade in CLAS 3P00.

### # GBLS 3P00

#### **Ideas and Culture Since 1850**

(also offered as HIST 3P00)

Intellectual and cultural developments in Europe and North America during the late 19th and 20th centuries.

*Lectures, seminar, 3 hours per week.*

Restriction: open to GBLS and HIST (single or combined) majors until date specified in Registration guide.

Prerequisite: HIST 2F20, 2P02, 2P16, 2P51 or permission of the instructor.

### GBLS 3P90

#### **Great Books Seminar III: Power, Reason and Imagination**

Important works of art, literature, philosophy, science and theology from the 16th through the 19th centuries that shaped our understanding of social order and creativity.

*Seminar, 3 hours per week.*

### GBLS 3P93

#### **Origins of Life**

Important works of science, art, literature, philosophy addressing the origin of life and the nature of our species' relationship with our planet. Readings include selections from the Bible, Aristotle, Jean-Jacques Rousseau, Mary Shelley, Charles Darwin, Aldous Huxley, Stephen Jay Gould, E. O. Wilson, and Richard Dawkins.

*Seminar, 3 hours per week.*

### # GBLS 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 in GBLS (ENGL) 3F93.

# GBLS 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.*

Prerequisites: MUSI 1F50; MUSI 2F90 or GBLS 2P94 or permission of the instructor.

# GBLS 3P99

**Modern Narratives**

(also offered as MLLC 3P99)

French, German, Italian and Hispanic 20th-century narrative writing. May include avant-garde, surrealist, existentialist, modernist and postmodernist issues.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F90, ITAL 2F00, SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade in MLLC 3P93.

GBLS 3V90-3V99

**Special Topics in Great Books/Liberal Studies**

Selected topics in Western or non-Western works of art, literature, philosophy, history, science and/or theology.

*Seminar, 3 hours per week.*

# GBLS 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 GBLS (single or combined) 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).

# GBLS 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 GBLS (single or combined) 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).

# GBLS 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 GBLS (single or combined) 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).

# GBLS 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 GBLS (single or combined) 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).

# GBLS 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 GBLS (single or combined), INPE and POLS (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).

# GBLS 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.

# GBLS 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 GBLS (single or combined) 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).

GBLS 4P10

**Great Books Seminar IV: 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.*

GBLS 4P40

**Practicum in Great Books/Liberal Studies**

Independent study combined with teaching responsibility in Great Books Seminar I.

Restriction: permission of the Director.

Note: each participant will team teach for four weeks with a senior faculty member and complete a written assignment reflecting on the best pedagogical approach to the texts read, suggesting alterations and/or innovations which might enhance the learning process. Post-class discussion and analysis are central to the course. Enrolment by Application to the Director.

GBLS 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.*

## GREAT BOOKS/LIBERAL STUDIES

GBLS 4P99

### Senior Essay and Workshop

Discussion of Great Books/Liberal Studies and issues related to the preparation of a senior essay.

*Seminar, tutorial, two terms.*

# GBLS 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 GBLS (single or combined) 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).

GBLS 4V70-4V79

### Text and Context

Topics in Literature and Intellectual History.

## Health Sciences

*This program is offered through the  
Department of Community Health Sciences*

### Chair

John Hay

### General Information

#### Administrative Assistant

Joanne Falovo

905-688-5550, extension 4228

Academic South 329

<http://www.brocku.ca/communhealthscil>

The BSc Honours in Health Sciences prepares students for careers in health professions with a bio-science perspective. This pre-health professional degree program allows students to meet the requirements of postgraduate degree programs in medicine and the allied health professions.

### Program Notes

- 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.
- The following courses are available for science credits: CHSC 2F95, 2P09, 3P09, 3P19, 3P90, 3P97, 4P07, 4P19, 4P95
- The following courses are not available for science credit: ASTR 1F00, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, 1P93, PHYS 1P21, 1P22, SCIE 1F30.
- In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree

programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

### Honours Program (only)

#### Year 1

- CHSC 1F90
- BIOL 1F90
- CHEM 1F92
- MATH 1P01 or 1P97
- MATH 1P98
- one Humanities context credit (ENGL 1F95 recommended)

#### Year 2

- CHSC 2F95, 2P07, 2P09, and 2P27
- BIOL 2F01 and 2P97
- one-half Science elective credit numbered 2(alpha)00-2(alpha)99
- one-half elective credit

#### Year 3

- CHSC 2P21, 3P07 and 3P97
- one CHSC credit
- one-half BIOL credit numbered 2(alpha)90 or above
- two 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
- one elective credit (see program note 2)

### Description of Courses

See relevant calendar entry for course descriptions.

# History

## Chair

Carmela K. Patrias

## Academic Adviser

Liz Kaethler

## Professors Emeriti

Craig R. Hanyan, Robert R. Taylor

## Professors

Rosemary Hale, John A. Sainsbury

## Associate Professors

Michael D. Driedger, R. Andrew McDonald, Jane A. McLeod, Carmela K. Patrias, David H. Schimmelpenninck, Murray R. Wickett

## Assistant Professors

John Bonnett, A. Bonny Ibhawoh, Kevin Kee, Gillian McGillivray, Daniel Samson, Barnett B. Singer, Mark G. Spencer, Donald A. Wright, Joanne Wright

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## General Information

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### Administrative Assistant

Heidi Klose

905-688-5550, extension 3500

Mackenzie Chown C420

<http://www.brocku.ca/history/>

Historians explore changes in past societies, cultures and peoples. They examine cultural, artistic, political, economic, intellectual, as well as 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. There are no mandatory courses and only a few upper-level courses have prerequisites.

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, Community Health Sciences, Economics, English Language and Literature, Geography, Labour Studies, Philosophy, Political Science, Psychology, Sociology, Women's Studies and languages.

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## Language Requirement for Humanities Majors

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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.

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## Program Notes

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1. History majors must take one 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. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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Eleven HIST credits are required for an Honours degree.

### Year 1

- One of HIST 1F95, 1F96, 1P92 and 1P93
- 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
- four elective credits (see program note 2)

### 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

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## Concurrent BA (Honours)/BEd

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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.



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**Pass Program**


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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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**Combined Major Program**


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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
- three elective credits

**History and Great Books/Liberal Studies (Honours only)**

Consult the Great Books/Liberal Studies entry for a listing of the course requirements.

**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
  - two elective credits
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**Minor in History**


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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
  - two HIST credits numbered 2(*alpha*)90 or above
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**Approved History Courses Offered by Other Departments/Centres**


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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 Hodinohsonni History I

ABST 2F91  
Studies in Aboriginal History (in Mohawk)

ABST 2F92  
Studies in Hodinohsonni History II

CANA 2P91  
Culture and Power in Canada I: Cultural Communities

CANA 2P92  
Culture and Power in Canada II: Cultural Institutions

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

\* COMM 4P55  
Advertising, Mass Media and Culture  
(also offered as PCUL 4P55)

ECON 2P09  
Canadian Economic History

ECON 2P10  
United States Economic History

ECON 2P11  
European Economic History

ECON 3P01  
History of Economic Thought I

ECON 3P02  
History of Economic Thought II

\* ENGL 2P51  
Literature of the British Empire  
(also offered as INTL 2P51)

FILM 2F90  
Film History and Research Methods

\* FILM 2P54  
Documentary Film  
(also offered as COMM 2P54 and SOCI 2P54)

\* FILM 2P56  
Canadian Cinema  
(also offered as COMM 2P56)

\* FILM 3P54  
Issues in Documentary Film  
(also offered as COMM 3P54 and SOCI 3P54)

\* FILM 3P56  
Issues in Canadian Cinema  
(also offered as COMM 3P56)

FILM 3P95  
National Cinema

\* FILM 3P98  
Gender and Sexuality in Contemporary Cinema  
(also offered as COMM/WISE 3P98)

GBLS 1F90  
Great Books Seminar I: The Individual and Society

GBLS 2P70  
Religions of the World

GBLS 2P94  
Great Books Seminar II: Epics and Ethics

GBLS 3P90  
Great Books Seminar III: Power, Reason and Imagination

## HISTORY

GBLS 4P10 Great Books Seminar IV: Modernity	MUSI 4P54 Singspiel and German Romantic Opera	* POLI 4P15 Canadian Political Economy (also offered as LABR 4P15)
GBLS 4P70 Apocalypse in Literature, Art and Music	*PCUL 2P20 Theories of Popular Culture (also offered as COMM/FILM 2P20)	POLI 4P22 Canada and the Developing World
* GEOG 2P03 Urban Geography (also offered as ENVI 2P03)	* PCUL 2P21 Canadian Popular Culture (also offered as COMM/FILM 2P21)	POLI 4P47 Arab Politics
* GEOG 2P06 Cultural and Historical Geography (also offered as PCUL 2P06)	POLI 2F12 The Government and Politics of Canada	PSYC 4P92 History of Psychology
GEOG 2P50 Geography of Canada	POLI 2P91 Political Theory I (also offered as GBLS 2P91)	VISA 2P41 Baroque Art and Architecture
GEOG 3P45 Urban Growth Processes and Planning	POLI 2P92 Political Theory II	VISA 2P50 Canadian Identities: From Nouvelle France to the Mid-20th Century
GEOG 3P86 Themes in Cultural Geography	POLI 2P93 Liberal Democracy	VISA 2P51 Canadian Art since 1960: Contemporary Trends
GEOG 3P87 Themes in Historical Geography	POLI 2P97 The Government and Politics of the United States	* VISA 2P90 Art in Revolution: 1750-1851 (also offered as GBLS 2Q90)
* ITAL 2P40 Early to High Renaissance Art and Architecture (also offered as VISA 2P40)	POLI 3P11 Local Government	* VISA 2P91 Historical Perspectives on Women (also offered as GBLS 2Q91)
MUSI 1F50 History of Music from Medieval to Modern Times	* POLI 3P16 Politics in Québec (also offered as CANA 3P16)	VISA 3P05 The European Avant-Garde: 1905-1970
MUSI 3P96 History of Music in the Baroque Era	POLI 3P28 Canadian Foreign Policy	VISA 3P06 The American Avant-Garde: 1912-1970
MUSI 3P97 History of Music in the 20th Century	POLI 3P43 Politics in the Developing World	WISE 2P91 The Status of Women: Historical Perspectives
MUSI 3P98 History of Music in the Classical Era	POLI 3P45 Politics in Advanced Democratic Systems	
MUSI 3P99 History of Music in the Romantic Era	* POLI 4P01 The Philosophy of Law (also offered as GBLS 4P01)	<hr/> Course Descriptions <hr/>
MUSI 4P50 History of Music in the Middle Ages	* POLI 4P02 Ancient Political Theory (also offered as GBLS 4P02)	Note that not all courses are offered in every session. Refer to the applicable term timetable for details.
MUSI 4P51 History of Music in the Renaissance	* POLI 4P04 Politics and Tyranny (also offered as GBLS 4P04)	# Indicates a cross listed course * Indicates primary offering of a cross listed course
MUSI 4P52 Eighteenth-Century Italian Opera		
MUSI 4P53 Methodology and Research in Musicology	POLI 4P14 Federalism in Canada	

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**Prerequisites and Restrictions**


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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 1F95****World History since 1914**

Major political, social, economic and cultural trends of the 20th century, with prime focus 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 1P92****Early Medieval Europe**

Western Europe from the late Roman Empire to the year 1000 emphasizing political, social, religious and economic change as the Roman Empire fragmented and was replaced with regional power blocs and identities. Division of the Roman Empire, development of Germanic successor states, rise of Christianity, conversion processes, rise of Europe, and nature of society.

*Lectures, seminar, 3 hours per week.*

**HIST 1P93****The High Middle Ages**

Expansion of European society 1000-1350 and the 'age of adversity' marking the end of the middle ages, 1350-1500. Thematic treatment of royal and papal power, Norman Conquests and Crusades, monastic, intellectual and architectural expansion, as well as late medieval crises in church and society including Hundred Years War and the Black Death.

*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) majors until date specified in Registration guide.

**HIST 2F92****Modern East Asia**

Survey of East Asian history from the 17th century to the present focussing on China and Japan.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

**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) majors 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) majors until date specified in Registration guide.

**HIST 2P03****Early Medieval Britain 400-1000: Celts, Saxons, and Vikings**

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) majors until date specified in Registration guide.

**HIST 2P04****Medieval Britain 1000-1485: The Four Nations**

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) majors until date specified in Registration guide.

**\* HIST 2P05****Women Thinkers in Western History**

(also offered as WISE 2P05)

Key women thinkers, including Mary Wollstonecraft, Virginia Woolf and Simone de Beauvoir, examined in historical context emphasizing European and British intellectuals.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) and WISE (single or combined) majors until date specified in Registration guide.

**HIST 2P08****Colonial Latin America**

Introduction to the history of Latin America from pre-hispanic times through 1810 focussing 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) majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in HIST 3F81.

**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) majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in HIST 3F81.

**HIST 2P15****Glory and Despair: The United States 1607-1865**

United States history and culture from the invasion of the North American continent by Europeans to the break-up of the Union in the Civil War. Topics include contact with Native peoples, origins of slavery, Puritanism, economic development, the Revolution, the Constitution, growth of transportation, political parties, abolitionism, sectional conflict, and the Civil War.

*Lectures, seminar, 3 hours per week.*

## HISTORY

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.  
Completion of this course will replace previous assigned grade in HIST 2P79 and 2P82.

### HIST 2P16

#### **Ambiguities of Greatness: The United States 1860 to the Present**

United States since the Civil War. Emphasis on industrialization and post-industrialism, empire building, race, gender relations, world wars, Cold War, consumerism, youth rebellion and popular culture.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in HIST 2P83.

### HIST 2P25

#### **Revolutions in Communication**

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) majors until date specified in Registration guide.

### HIST 2P29

#### **History, Historians and Historiography**

History of historical writing focussing on sources, methods and individual historians.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

### HIST 2P34

#### **Seventeenth-Century Europe, 1566-1715**

Survey of the history of continental Europe between the Netherlands Revolt and the death of Louis XIV. Topics include absolutism and its limits, religious controversy, developments in science, the witch craze and the effects of colonial expansion.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors 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) majors 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) majors 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) majors 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) majors 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), CHSC, CHLH and HLSC majors until date specified in Registration guide.

Prerequisite: one HIST credit or CHSC 1F90.

### \* HIST 2P61

#### **Columbus' World, 1400-1600**

(also offered as INTL 2P61)

Comparison of the major civilizations of the Americas, Asia, and Europe, as well as the growing contacts between them.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

### \* HIST 2P62

#### **Early Africa**

(also offered as INTL 2P62)

Social political, cultural and economic history of Africa before and during the era of European colonialism until the end of the 19th century.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

### \* HIST 2P63

#### **Modern Africa**

(also offered as INTL 2P63)

Social, political, cultural and economic history of modern Africa.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors 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) majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in HIST 2F90.

### 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) majors 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) majors until date specified in Registration guide.

## \* HIST 2P99

**Ideas and Culture before 1850**

(also offered as GBLS 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) and GBLS majors until date specified in Registration guide.

## 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) majors 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) majors 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) majors until date specified in Registration guide.

## \* HIST 2Q95

**Women in North America**

(also offered as WISE 2Q95)

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; suffrage and social reform; 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) and WISE (single or combined) majors until date specified in Registration guide.

## \* 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) and WISE (single or combined) majors 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: given in English. Students are responsible for travel, accommodation and other expenses.

Completion of this course will replace previous assigned grade in SPAN 2V90-2V99.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2F20 or permission of the instructor.

## \* HIST 3P00

**Ideas and Culture since 1850**

(also offered as GBLS 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) and GBLS majors until date specified in Registration guide.

Prerequisite: HIST 2F20, 2P02, 2P16, 2P51 or permission of the instructor.

## HIST 3P01

**Canadian Prime Ministers, 1867 to the Present**

Themes in Canadian history and historiography, focussing on prime ministers.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

Prerequisite: HIST 2P02 or permission of the instructor.

## HIST 3P05

**Canadian Politics in the 20th Century**

Political developments, themes and institutions in Canada from Laurier to Chretien. Emphasis on the evolution of Canada's political culture, complex relationship between politicians, the electorate and media, and enduring strengths and weaknesses of Canada's parliamentary system.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

Prerequisite: HIST 2P02 or permission of the instructor.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P15 or permission of the instructor.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P15 or permission from the instructor.

## 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

## HISTORY

combined) majors until date specified in Registration guide.

Prerequisite: HIST 2P16 or permission from 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) majors until date specified in Registration guide.

Prerequisite: one-half HIST credit numbered 1(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) majors until date specified in Registration guide.

Prerequisite: one-half HIST credit numbered 1(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST 3Q90 or 3V96.

### 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) majors until date specified in Registration guide.

Prerequisite: one of HIST 2P01, 2P02, 2P15, 2P16 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST 3P91.

### 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P41, 2P42 or permission of the instructor.

### HIST 3P45

#### **United States Foreign Policy Since 1945**

United States foreign policy during the Cold War era; the rise to superpower status; consequent global responsibilities.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

Prerequisite: HIST 2P16 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST 3P97.

### HIST 3P50

#### **Directed Research**

In exceptional circumstances, a student with Honours standing may be permitted to pursue directed research using primary sources. Topics to be defined in consultation with a faculty member who is willing to supervise the student.

Restriction: permission of the Department.

### 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P16 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST 3Q92.

### \* HIST 3P60

#### **The World of Genghis Khan: Inner Asia since 500 B.C.E.**

(also offered as INTL 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) majors until date specified in Registration guide.

Note: seminars will include films and primary

sources (in translation). HIST 2P96 recommended.

### \* HIST 3P61

#### **Diplomacy of the Pacific Rim**

(also offered as INTL 3P61)

History of relations among the major powers around the Pacific Ocean focussing on China and Japan, and their interaction with the world since the 16th century.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

Note: HIST 2F92 recommended.

### \* HIST 3P62

#### **Global Economic History, 1700-1880**

(also offered as INTL 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) majors until date specified in Registration guide.

Prerequisite: one-half HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

### \* HIST 3P63

#### **Selected Themes in the History of Europe's Global Influence, 1600-1950**

(also offered as INTL 3P63)

Europe's impact on the world and regional responses.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

Note: HIST 2P51 recommended.

### 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P62, 2P63 or permission of the instructor.

## HIST 3P65

**South Africa: The Rise and Fall of Apartheid**  
South African society and economy, the creation of Apartheid, popular and political resistance, and the collapse of the regime.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P01, 2P02 or permission of the instructor.

## \* 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P02 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST (CANA/LABR) 3Q95.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P02 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST 3Q91.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2P96, 2P98 or permission of the instructor.

## HIST 3P98

**French Canada**

Cultural, economic and political institutions of French Canada; sources of French-English conflict, emphasizing such questions as education, cultural values, imperial defence and conscription.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

## 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) majors until date specified in Registration guide.

Prerequisite: HIST 2F20 or permission of the instructor.

## 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) majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in HIST 3V95.

## \* HIST 3Q94

**Revolution in Latin America**

(also offered as SPAN 3Q94)

Social, economic and intellectual roots of revolutions in Mexico, Bolivia, Guatemala, Cuba and Nicaragua. Seminal role of the Mexican Revolution.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) and SPAN (single or combined) majors until date specified in Registration guide.

Prerequisites: HIST 2P08 and 2P09 (3F81) or permission of the instructor.

Note: given in English. Spanish majors must complete written assignments in Spanish.

Completion of this course will replace previous assigned grade in HIST 3P94.

## HIST 3Q96

**Medieval Social and Cultural History**

Selected topics in European history between 500 and 1500.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

## 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) majors until date specified in Registration guide.

Prerequisite: one of HIST 2P01, 2P02, 2P15, 2P16 or permission of the instructor.

## \* HIST 3Q98

**Myth, Memory and Meaning in Canadian Cultural History**

(also offered as CANA 3Q98)

How different groups and individuals have remembered, commemorated and assigned meanings to the past, focussing primarily on the post-Confederation period.

Restriction: open to HIST (single or combined) and CANA majors until date specified in Registration guide.

Prerequisite: CANA 2P91, 2P92 (2F91) or two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in HIST (CANA) 3V91.

## HIST 3V90-3V94

**Topics in Canadian Cultural History**

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors 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 3V95-3V99

**Topics in Medieval History**

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

\* HIST 4F30

**Computing and Historical Analysis**

(also offered as HUMA 4F30)

Overview of the ways that historians have used the computer to support their teaching and research. Topics include quantitative computing, geographic information systems software, photo-editing and animation, and rendering software.

Prerequisite: one HIST credit.

HIST 4F99

**Honours Tutorial**

Directed reading and discussion in the student's selected field in preparation for a comprehensive examination.

Restriction: open to HIST (single or combined) 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: students must make arrangements before the end of April for tutorials to begin the following school term. Honours students who are interested in this course may begin their reading for HIST 4F99 in year 3.

HIST 4V00-4V09

**Themes in Literature and History**

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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 4V10-4V69

**Problems 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) 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 4V10

**2005-2006: Emergence of Modern Canada, 1930-1980**

Political, economic and social developments in Canada from 1930 through the 1970s.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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 4V32

**2005-2006: United States 20th Century**

Themes in 20th-century American history.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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 4V34

**2005-2006: Topics in Modern European Military History**

Topics primarily in French, German, Russian, and British military history since 1700.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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 4V35

**2005-2006: Witchcraft Episodes in Britain and America, 1500-1700**

Persecution for witchcraft examined 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) 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 4V36

**2005-2006: Topics in Early American History of Ideas**

Selected topics in the history of ideas in Early America.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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 4V38

**2005-2006: 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) 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 4V66

**2005-2006: Canadian Historical Writing**

(also offered as CANA 4V66)

Classic texts in Canadian historical writing.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) and CANA 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 4V67

**2005-2006: The World We Have Lost: Comparative Rural History**

Examination of major patterns of international rural history, emphasizing cultural, political, and social questions.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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 4V69

**2005-2006: Comparative Slavery and Emancipation**

Slavery and emancipation in classical, medieval, African, South American, North American, and Asian contexts.

*Seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) 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.

**HUMANITIES**

HUMA 3F90

**Survey of Humanities Computing**

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.

# HUMA 4F30

**Computing and Historical Analysis**

(also offered as HIST 4F30)

Overview of the ways that historians have used the computer to support their teaching and research. Topics include quantitative computing, geographic information systems software, photo-editing and animation, and rendering software.

Prerequisite: one HIST credit.

HUMA 3F90  
HIST 3F90

## 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.

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### Program Requirements

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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 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 pre-requisites for advanced courses are met and that the schedule for cycled courses be considered.

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### Program Note

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1. In all Honours degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all Pass degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

# 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

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## General Information

*Administrative Assistant*  
Karen Phillips

905-688-5550, extension 4697  
Taro Hall 410

*Administrative Assistant*  
Christine Schacht

905-688-5550, extension 3476  
Taro Hall 468

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.

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## Program Notes

1. ECON 4P13 and 4P14 are recommended for those intending to proceed to graduate studies in Economics or International Affairs.
2. One of POLI 4P22, 4P26, 4P27, 4P95 strongly recommended.
3. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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## Honours Program

### Year 1

- ECON 1P91 and 1P92
- MATH 1P97
- MATH 1P98
- POLI 1F90
- one Humanities context credit (HIST 1F95 recommended)
- one Science context credit

### Year 2

- ECON 2P21, 2P22 and 2P90
- POLI 2F20 and 2P91
- POLI 2P92 or 2P93
- one-half ECON credit
- one elective credit

### Year 3

- ECON 3P13, 3P21, 3P22 and 3P91
- POLI 3P21 and 3P26
- one credit from POLI 2P94, 2P97, 3P28, 3P33 (recommended), 3P43, 3P44, 3P45
- one elective credit

### Year 4

- ECON 3P90, 3P93 and 3P94
- POLI 4P20 and 4P21
- one-half ECON credit numbered 2(alpha)99 or above (see program note 1)
- one POLI credit numbered 3(alpha)99 or above (see program note 2)
- one elective credit

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## 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, locations in full text of agreements can be found at: [www.brocku.ca/international/](http://www.brocku.ca/international/)

**One year (2 academic terms) or 1 academic term Student International Mobility programs administered by the Office of International Services.**

## Argentina

- Universidad Catolica de Cordoba (ISEP)
- Universidad de Palermo (ISEP)
- Universidad del Salvador (ISEP)

## Australia

- Curtin University of Technology
- Griffith University
- University of Canberra

## Austria

- Karl-Franzens-Universität (Graz) (ISEP)

## Brazil

- Pontificia Universidade Católica do Rio de Janeiro (ISEP)

## Chile

- Universidad Católica de Valparaíso (ISEP)

## China

- City University of Hong Kong

## Czech Republic

- Masaryk University in BRNO (ISEP)

## Finland

- Abo/Turku Consortium (ISEP)
- University of Joensuu (ISEP)
- Lappeenranta University of Technology (ISEP)
- University of Kuopio (ISEP)
- University of Tampere (ISEP)

- Tampere University of Technology (ISEP)
- Helsinki University of Technology (ISEP)
- University of Helsinki (ISEP)
- University of Jyväskylä (ISEP)
- University of Oulu (ISEP)

## France

- Université d'Angers (ISEP)
- Université de Caen (ISEP)
- Université de Franche-Comté (ISEP)
- Université de Grenoble II (ISEP)
- Université de Rennes I (ISEP)
- Université de Lille III (ISEP)
- Université du Havre (ISEP)
- Université de Paul Cézanne (ISEP)
- Université de Paul Valéry, Montpellier III (ISEP)

## Germany

- Canadian Year in Freiburg
- Universität Dortmund (ISEP)
- Universität Trier (ISEP)

## Ghana

- University of Ghana, Legon

## Japan

- Nagoya Gakuin University
- Chukyo University (ISEP)
- Kansai Gaidai University (ISEP)
- Nanzan University (ISEP)

## Korea, Republic of

- Yonsei University

## Mexico

- Instituto Tecnológico y de Estudios Superiores De Monterrey (ISEP)
- Instituto Tecnológico y de Estudios Superiores de Occidente (ISEP)
- Universidad La Salle (ISEP)
- Universidad Regiomontana (ISEP)
- Universidad de Guanajuato (ISEP)
- Universidad de Monterrey (ISEP)
- Universidad Popular Autonoma Del Estado De Puebla (ISEP)

## Netherlands

- Universiteit Maastricht
- University of Leiden (ISEP)
- Tilburg University (ISEP)
- University of Utrecht (ISEP)
- University of Groningen (ISEP)

## New Zealand

- Lincoln University
- University of Otago

**Nicaragua**

- Universidad Americana (ISEP)

**Spain**

- Universidad Pública de Navarra (ISEP)
- Universidad de Málaga (ISEP)

**Sweden**

- Karlstad University
- Luleå University of Technology (ISEP)
- University of Växjö (ISEP)
- Örebro University (ISEP)

**Switzerland**

- Université de Fribourg (ISEP)
- Universität Bern (ISEP)

**United Kingdom**

- Glasgow Caledonian University
- Keele University
- 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

**Uruguay**

- Universidad Católica del Uruguay (ISEP)

**Other programs administered by Departments/Centres or Faculties**

Please contact the departments/centres concerned about their entries.

**Faculty of Business**

- Katholieke Universiteit Leuven (Belgium)
- Shanghai University (China)
- Copenhagen Business School (Denmark)
- Burgundy School of Business (France)
- Groupe Ecole Supérieure de Commerce de Rouen (France)
- Université Paris IX Dauphine (France)

**Faculty of Education**

- Rand Afrikaans University (South Africa)

**CCOVI**

- Etablissement National d'Enseignement Supérieur Agronomique de Dijon (France)

- Facolta di Agraria, Università degli Studi di Udine (Italy)

**Department of Modern Languages, Literatures And Cultures**

- Summer Studies in Italy (summer only)

- Université des Antilles et de la Guyane (Martinique, French West Indies)

- Université de Perpignan (France)

**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

GEOG 3F91

Environmental and Development Issues in Thailand

**England**

GEOG 3F90

London, England

GEOG 3F92

London-Paris Field Course

**Greece/Cyprus**

CLAS 3M20-3M29

Study in Mediterranean Lands

(Also offered as VISA 3M20-3M29)

CLAS 4F75

Archaeological Practicum in Mediterranean Lands

GEOG 3F95

Greek Viticulture and Wines

**Honduras**

CHSC 3F97

International Health Field Course

TOUR 3P88

Tourism Field Course

**Italy**

ITAL 2F99

Reading the Italian City  
(also offered as VISA 2F99)

ITAL 3M21

Monumental Rome: From Romulus to the Renaissance  
(also offered as CLAS/VISA 3M21)

**Latin America**

SPAN 2V90-2V99

Culture in a Spanish-Speaking Region

Country location will vary from year to year.

**International Experiential Learning:**

Solidarity in Action (Peru/Brazil)

Please contact Campus Ministries or Office of International Services.

# International Studies

## Director

John N. Sivell  
TBA (as of July 1, 2005)

## Participating Faculty

Irene Blayer (Modern Languages, Literatures and Cultures), David T. Brown (Environment), Wing-Cheuk Chan (Philosophy), Sheng Deng (Management, Marketing and Human Resources), Michael Lueck (Tourism Studies), Barnett Singer (History), John Sivell (Applied Language Studies), Susan Spearey (English Language and Literature)

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## General Information

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*Administrative Assistant*  
Sylvia Barlow

905-688-5550, extension 4224  
Mackenzie Chown D474  
<http://www.brocku.ca/intl>

The Centre for International 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.

Students are encouraged to consult with the Director of the Centre for International Studies in order to select optional courses within their Major with international elements that most effectively complement the courses taken in this Minor.

Students of International Studies analyze the principles and mechanisms of intercultural contact and communication in transnational or national settings. They are interested in similarities and differences in customs, values and aspirations. In this way they seek to illuminate cultural, political and economic patterns by exploring the influence of diversity on relations among peoples.

Because of the close connection between language and culture, development of skills in at least one second language is fundamental to the pursuit of International Studies. Normally, two credits must be taken in the same modern language. Relevant languages taught at Brock

include French, German, Italian, Japanese, Mandarin Chinese, Portuguese, and Spanish. Students wishing to study another language as part of the program should consult the Director. Language study should begin as early as possible in the program. Students already able to demonstrate proficiency in a modern language other than English may apply to the Director for permission to substitute other INTL elective courses.

The program recommends that students consider gaining experience abroad, normally in year 3. INTL 3P91 is specifically designed for completion while abroad. The Office of International Services facilitates formal exchange programs with numerous countries. See the International Study and Exchange entry for more information. Also, additional international exchange opportunities are offered through the Department of Modern Languages, Literatures and Cultures.

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## Minor in International Studies

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Students can obtain a Minor in International Studies within their degree in another discipline by completing the following courses with a minimum 60 percent overall average:

- INTL 1F90 and 4P21
- two credits in a language other than English (strongly recommended that both be in the same language)
- one of INTL 2P12, 2P13, 2P17, 2P51, 2P52, 2P53, 2P61, 2P62, 2P63, 2P83, 2P94, 2P96, 2Q96, 2P97, 2P99, POLI 2P47
- one of INTL 3P46, 3P60, 3P61, 3P62, 3P63, 3P70, 3P80, 3P90, 3P91, 3P92, 3V25-29

Students taking an International Studies Minor in conjunction with a Tourism Major are exempt by Tourism from the one language credit normally required by that program, but are required to take the two language credits specified in the International Studies Minor.

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## Course Descriptions

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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

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## Prerequisites and Restrictions

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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.

INTL 1P80  
**Intercultural Contact and Communication**  
Practical and theoretical exploration of cultural similarities and differences focussing on their impact on intercultural contact and communication.  
Note: offered online.  
Completion of this course will replace previous assigned grade in INTL 1F90 or 1P95.

INTL 1F90  
**Introduction to International 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 in INTL 1P80 or INTL 1P95

# INTL 2P10  
**Latin American Culture**  
(also offered as SPAN 2P10 and PORT 2P10)  
Survey of contemporary social history; the Latin American nations through text and images. Topics include cultural hybridization and identity.  
*Lectures, seminar, 3 hours per week*  
Note: given in English. Spanish major complete written assignments and exams in Spanish.

# INTL 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.*

# INTL 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.*

# INTL 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.*

# INTL 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.

# INTL 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.

# INTL 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, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

# INTL 2P61

**Columbus' World, 1400-1600**

(also offered as HIST 2P61)

Comparison of the major civilizations of the Americas, Asia, and Europe, as well as the growing contacts between them.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

# INTL 2P62

**Early Africa**

(also offered as HIST 2P62)

Social political, cultural and economic history of Africa before and during the era of European colonialism until the end of the 19th century.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

# INTL 2P63

**Modern Africa**

(also offered as HIST 2P63)

Social, political, cultural and economic history of modern Africa.

*Lectures, seminar, 3 hours per week.*

Restriction: open to HIST (single or combined) majors until date specified in Registration guide.

# INTL 2P83

**Social and Cultural Anthropology of the Contemporary World**

(also offered as SOCI 2P83)

Anthropological perspectives on current global issues approached through geographically diverse ethnographic case studies.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until the date specified in the Registration guide.

Prerequisite: SOCI 1F90, 1P80 (2P82) or

permission of the instructor.

Note: students minoring in Sociology may register prior to date in Registration guide. Contact the Sociology Department.

INTL 2P92

**Sociolinguistics**

(also offered as LING 2P92)

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 Chair.

Completion of this course will replace previous assigned credit in INTL 3P92.

# INTL 2P94

**Global Conventions on Environment and Development**

(also offered as ENVI 2P94 and TOUR 2P94)

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, workshop, seminar, 3 hours per week.*

Prerequisites: INTL 1F90 (1P95) or ENVI 1P90 and 1P91; MATH 1P98 or permission of the instructor.

# INTL 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: LABR 1F90 (1P90 and 1P92), WISE 1F90 or permission of the instructor.

# INTL 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*

## INTERNATIONAL STUDIES

Restriction: open to INTL, CHSC, CHLH and HLSC majors until the date specified in Registration guide.  
Prerequisite: INTL 1F90 or CHSC 1F90.

### # INTL 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.

### # INTL 3F94

**International Field Course**  
(also offered as ENVI 3F94)  
Intensive field course in another country, in an area of study of environmental interest.  
Restriction: open to ENVI majors with a minimum of 8.0 overall credits and permission of the Director.  
Prerequisite: one of INTL 1F90 (1P95), ENVI 1P90 and 1P91, or permission of the Director.  
Note: a list of eligible modules will be posted in the fall term; consult the Centre for the Environment for registration instructions. Students are expected to pay their own expenses.  
Completion of this course will replace previous assigned grade in ENVI 3F70.

### # INTL 3P60

**The World of Genghis Khan: Inner Asia since 500 BCE**  
(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) majors until date specified in Registration guide.  
Note: seminars will include films and primary sources (in translation). HIST 2P96 recommended.

### # INTL 3P61

**Diplomacy of the Pacific Rim**  
(also offered as HIST 3P61)  
History of the relations among the major powers around the Pacific Ocean focussing on China and Japan, and their interaction with the

world since the 16th century.  
*Lectures, seminar, 3 hours per week.*  
Restriction: open to HIST (single or combined) majors until date specified in Registration guide.  
Note: HIST 2F92 recommended.

### # INTL 3P62

**Global Economic History, 1700-1950**  
(also offered as HIST 3P62)  
Cotton, china, 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) majors until date specified in Registration guide.  
Prerequisite: one-half HIST credit numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

### # INTL 3P63

**Selected Themes in the History of Europe's Global Influence, 1600-1950**  
(also offered as HIST 3P63)  
Europe's impact on the world and regional responses.  
*Lectures, seminar, 3 hours per week.*  
Restriction: open to HIST (single or combined) majors until date specified in Registration guide.  
Note: HIST 2P51 recommended.

### # INTL 3P70

**International Field Course**  
(also offered as ENVI 3P70)  
Intensive field course in another country, in an area of study of environmental interest.  
Restriction: open to ENVI (single or combined) majors with a minimum of 8.0 overall credits and permission of the Director.  
Prerequisite: INTL 1F90 (1P95), ENVI 1P90 and 1P91 or permission of the Director.  
Note: a list of eligible modules will be posted in the fall term; consult the Centre for the Environment for registration instructions. Students are expected to pay their own expenses.

### # INTL 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) majors until date specified in Registration guide.  
Prerequisite: one of GEOG 2P13, ENVI 2P28 2P91, 2P92, 2P94, POLI 2F20, 2F30, INTL 2P52, SOCI 2P73, 2P85, WISE 2P96, HIST 2P99 or permission of the instructor.  
Completion of this course will replace previous assigned grade in GEOG 2Q96 (2P96).

### # INTL 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) majors until date specified in Registration guide.  
Prerequisite: INTL 1F90 (1P95), GEOG 1F90 or permission of the instructor.

### INTL 3P90

**Text-based Research Project**  
Supervised individual text-based research in an area of international studies not represented by other courses.  
Restriction: permission of the Director.

### INTL 3P91

**International Field Research Project**  
Supervised individual data-collection or observational research in an area of international 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.

### # INTL 3V25-3V29

**Interdisciplinary Perspectives on International Issues**  
(also offered as ENVI 3V25-3V29)  
Specific topics to be selected.  
*Lectures, seminar, workshop, 3 hours per week.*  
Prerequisite: INTL 1F90(1P95), ENVI 1P90 and 1P91 or permission of the Director.  
Note: each course taken in this series uses guest speakers from a variety of disciplines and backgrounds to explore one aspect of international environmental policy issues.



## # INTL 4P21

**Issues in the Global System**

(also offered as ENVI 4P21 and TOUR 4P21)

Power relationships, cultural patterns, globalisation and extra-state phenomena such as pollution and disease. Role and possibilities for leadership, with a view to leadership developments.

*Seminar, 3 hours per week*

Restriction: minimum of 14.0 overall credits or permission of the Director.

## # INTL 4P46

**Cities and Globalization**

(also offered as GEOG 4P46)

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.*

Prerequisites: GEOG 1F90; GEOG 3P45, 3P47 or permission of the instructor.

Completion of this course will replace previous assigned grade in INTL (GEOG) 3P46.

**INTERNSHIP COURSE**

## INTL 3N01

**Internship in Intercultural Studies**

Volunteer non-credit internship in an intercultural setting within Ontario.

Restriction: permission the Director.

Note: offered through the Office of Co-op Services.

# Italian

*This program is offered through the Department of Modern Languages, Literatures and Cultures*

## Chair

Ernesto J. Virgulti  
Alexandre L. A. Amprimoz (as of July 1, 2005)

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## General Information

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### Administrative Assistant

Alison J. Rothwell

905-688-5550, extension 3312  
Mackenzie Chown A207  
<http://www.brocku.ca/modernlanguages/index.html>

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 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 two courses in Italy: 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.

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## Program Notes

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1. Students with two or more years of high school Italian 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 no high school credits in the language take ITAL 1F00 or 1F01, according to their background. See individual course descriptions.

3. 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.

4. Unless otherwise noted in the course description, courses numbered 2(alpha)00 or above are taught in the language while courses numbered 1F90 and below are taught in the language to the extent possible.

5. 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.

6. ITAL 1F00, 1F01, 1F90 and 2E00 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.

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. A Minor program may include no more than one-half ITAL credit given in English.

9. 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.

10. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Pass Program

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### Year 1

- ITAL 1F90 (see program note 1)
- one Science context credit
- one Social Science 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

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## Combined Major Program

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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 Science context credit
- one Social Science 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**

- Two ITAL or MLLC credits numbered 2(alpha)90 or above (see program note 7)
- two credits from the co-major discipline
- one elective credit

**Year 4**

- Two ITAL or MLLC credits numbered 3(alpha)90 or above (see program note 7)
- 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.

**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 note 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 I**

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; language lab, 1 hour per week.*

**ITAL 1F01****Introductory Italian II**

Beginner's course for students of Italian background who have not formally studied the language. Acquisition of reading and oral skills, basic grammar; composition and conversation.

*Lectures, 3 hours per week; language lab, 1 hour per week.*

**ITAL 1F90****Intermediate Italian**

Review of basic grammar; composition and oral practice: Discussions based on cultural topics, cities and the art of Italy.

*Lectures, seminar, 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.

Prerequisite: two ITAL or VISA credits.

Restriction: permission of the Department.

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. Registrants are expected to pay their own expenses.

**\* ITAL 2P40****Early to High Renaissance Art and Architecture**

(also offered as VISA 2P40)

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 artists' cultural status.

*Lectures, seminar 3 hours per week.*

Prerequisite: ITAL 1F90, VISA 1F98 or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade in ITAL 2P10.

**\* ITAL 2P80****Italian Cinema**

(also offered as FILM 2P80)

Major film directors and cultural trends in Italian cinema. Films studied include those by De Sica, Rossellini, Fellini, Antonioni, Bertolucci, Wertmüller, Amelio and Moretti.

*Lectures, 3 hours per week, plus film lab.*

Note: given in English. Knowledge of Italian not necessary.

**ITAL 2P85****Italians in Canada and Italy-Canada Relations**

History of Italian immigration in Canada focussing 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 focussing on interference between English and Italian. Introduction to business correspondence.

*Lectures, 3 hours per week.*

Prerequisite: ITAL 1F90 or permission of the instructor.

**ITAL 2P95****Modern Culture and Civilization**

Historical changes and key issues in 19th- and 20th-century Italy focussing on Italian

## ITALIAN

unification, Fascism and modern Italy. Arts and literature representative of the period.

*Lectures, 3 hours per week.*

Prerequisite: ITAL 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in ITAL 2P11.

### 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 3M21

#### **2005-2006: Monumental Rome from Romulus to the Renaissance**

(also offered as CLAS 3M21 and VISA 3M21) Rome as a city of monuments, from its founding to the Renaissance. The Roman and imperial fora, baths, Colosseum, medieval and Renaissance churches and palaces, including St. Peter's and the Vatican, emphasizing sites as monuments and relics, and for their social function.

Restriction: permission of the Department.

Note: offered in Italy: 4 weeks. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade in ITAL (CLAS/VISA) 4M01.

### ITAL 3P94

#### **The Modern Novel**

Representative novels from leading modern and contemporary writers, such as Pirandello, Tabucchi, Duranti, Calvino, Sciascia, Banti, Ginsburg.

*Lectures, 3 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, 3 hours per week.*

Prerequisite: ITAL 2F00.

### 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

Danny Rosenberg

## Undergraduate Co-ordinator

Tammy Campbell

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## General Information

### Administrative Assistants

Susan Gale-Wolbert

(905) 688-5550, extension 4358  
Walker Complex 283

Donna Phelps

905-688-5550, extension 4957  
Walker Complex 282  
<http://www.brocku.ca/deptphysed/>

The Department of Physical Education and Kinesiology offers a 20 credit Bachelor of Kinesiology (BKin) degree and a Bachelor of Science in Kinesiology (BSc (Kin)) degree. The Department of Physical Education and Kinesiology is accredited through the Canadian Council of Physical Education and Kinesiology Administrators.

The requirement for graduation with a BKin or BSc (Kin) (Honours) is a minimum 70 percent major average and a minimum 60 percent non-major 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 June 1. These are limited enrolment programs. Admission is not guaranteed by attainment of the minimum requirements.

The BKin degree focusses 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 focusses on the biophysical aspects of kinesiology and prepares students for careers in 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.

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## 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, COSC 1P95 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.

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 1.5 elective science credits from the Faculty of Mathematics and Science.

4. BKin or BSc (Kin) majors are strongly recommended to take an emergency First Aid/CPR course.

5. The following courses are available for Science credit: PEKN 2P04, 2P09, 2P82, 2P97, 3P10, 3P90, 4P08, 4P10, 4P94, 4P97, 4P98.

6. The following courses are not available for Science credit: ASTR 1F00, BIOL 1F25, CHEM 1P00, ERSC 1F90, 1P92, 1P93, PHYS 1P21, 1P22, SCIE 1F30.

7. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above.

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## Program of Study

### Bachelor of Kinesiology

#### Year 1

- PEKN 1P90 and 1P93
- COSC 1P95
- one Science context credit
- one Humanities context credit
- one Social Science context credit
- one-half elective credit

#### Year 2

- PEKN 2P04, 2P05, 2P08, 2P09, 2P82, 2P84, 2P91, 2P95 and 2P97
- one-half elective credit

#### Year 3

- PEKN 3P02, 3P10, 3P70, 3P75, 3P90, 3P91, 3P94 and 3P95
- PEKN 3P08 or 3P18
- one-half elective credit

#### Year 4

- PEKN 4P02, 4P10 and 4P11
- one and one-half PEKN credits numbered 3(*alpha*)90 or above
- two elective credits (see program note 2)

### Bachelor of Science in Kinesiology

#### Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91 and 1P93
- PSYC 1F90
- one Humanities context credit

#### Year 2

- PEKN 2P04, 2P09, 2P85 and 2P97
- BIOL 2F01 and 2P97
- MATH 1P98
- NEUR 2F36

#### Year 3

- PEKN 2P08, 3P10, 3P70, 3P85, 3P90 and 3P94
- one of PEKN 2P44, 2P70, 3P02, 3P91
- one-half elective Science credit (see program notes 3 and 6)
- one elective credit

*Year 4*

- PEKN 4F91 or one PEKN credit numbered 3(*alpha*)90 or above
- PEKN 4P10 and 4P11
- one credit from PEKN 4P94, 4P97, 4P98
- one elective Science credit (see program notes 3 and 6)
- one elective credit

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**Description of Courses**

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See relevant calendar entry for course descriptions.

# Labour Studies

## Director

June Corman, Department of Sociology

## Participating Faculty

Jeffrey Boggs, (Geography), Jonah Butovsky (Sociology), June Corman, (Sociology), Ann D. Duffy (Sociology), Dan Glenday (Sociology), Heather Lee Kilty (Nursing), Felice Martinello (Economics), Carmela Patrias (History), Daniel Samson (History), Garth Stevenson (Political Science)

## General Information

### Administrative Assistant

Barb Alexander

905-688-5550, extension 4753

Mackenzie Chown D332

<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.

## Program Notes

1. At least one-half LABR credit must be from outside the student's disciplinary co-major.
2. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

## Honours Program

Students wishing to major in Labour Studies must declare a combined major with either Economics, Political Science or Sociology.

### Labour Studies and Economics

Consult the Economics 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
- POLI 2F12 and 2P80
- one of POLI 2P91, 2P92, 2P93
- one LABR credit
- one elective credit

#### Year 3

- LABR 3P03, 3P06 and 3P13
- two POLI credits numbered 2(alpha)90 to 3(alpha)99
- one-half LABR credit
- one elective credit

#### Year 4

- LABR 4F90 or 4F91
- LABR 4F92
- two POLI credits
- 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 LABR credit
- SOCI 3P00 and 3P01
- one SOCI credit numbered 2(alpha)90 or above
- one elective credit

### Year 4

- LABR 4F90 or 4F91
- LABR 4F92
- two SOCI credits
- 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

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.

## LABOUR STUDIES

The certificate is awarded upon completion of the following courses with a minimum 60 percent average.

- LABR 1F90, 2P03 and 2P06
- one credit from ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90
- two credits from LABR 2F98, 2P02, 2P15, 2P32, 2P34, 2P71, 2P73, 2P96, 3P03, 3P06, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P66, 3Q95, CHSC 3P40

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 an BA (Honours) in Economics, Political Science or Sociology:

- LABR 1F90, 2P03, 2P06, 3P03 and 3P06
- one credit from ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90
- two credits from LABR 2F98, 2P02, 2P15, 2P32, 2P34, 2P71, 2P73, 2P96, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P65, 3P66, 3Q95, 3V95-3V99, 4P15, 4P32, 4P54, CHSC 3P40

The words "Concentration in Labour Studies" will be added to a student's official transcript when the student graduates with a BA (Honours) and completes the above listed requirements.

### 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 2F98, 2P02, 2P15, 2P32, 2P71, 2P73, 2P96, 3P03, 3P06, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P65, 3P66, 3P95, 3P98, 3P99, 4P15, 4P32, 4P54, CHSC 3P40

### 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.*

Completion of this course will replace previous grade assigned in LABR 1P91 and 1P92.

# LABR 2F98

**Public Administration**

(also offered as COMM 2F98 and POLI 2F98) Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; pressure groups; human resources and budgetary processes; the policy process; ethics and accountability.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of LABR 1F90 (1P91 and 1P92), 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 in LABR (POLI) 3P50.

# LABR 2P02

**Economic Geography**

(also offered as GEOG 2P02)

Theory and concepts of economic geography and the work of economic geographers. Organization of goods and services producing activities and their locational patterns. Overview of the geography of economic change in Canada and the United States since 1930.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LABR, ENVI and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: GEOG 1F90, LABR 1F90 (1P91 and 1P92) 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 (1P91 and 1P92) or 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 in LABR 2F00.

LABR 2P06

**Collective Bargaining**

Bargaining simulation played by student 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.*

Prerequisites: LABR 1F90 (1P91 and 1P92) 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 and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: LABR 1F90 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.

Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.

# 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 or SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: LABR 1F90 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.

Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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 or SOCI (single or combined) majors until dated specified in Registration guide.

Prerequisite: LABR 1F90 (1P91 and 1P92), SOCI 1F90 or the permission of the instructor. Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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 2P94

**Canadian Economic Issues**

(also offered as ECON 2P94)

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 2P96

**Women and Development**

(also offered as INTL 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: LABR 1F90 (1P91 and 1P92), 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 (1P91 and 1P92), ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90.

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 (1P91 and 1P92), one POLI credit numbered 1(alpha)90 to

## LABOUR STUDIES

1(*alpha*)99 or permission of the instructor.  
Completion of this course will replace previous assigned grade in LABR 3F00.

\* 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 (1P91 and 1P92) or permission of the instructor.

Completion of this course will replace previous assigned grade in LABR 3F00.

# 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

### **Sociology of 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 paid labour force work/family conflict.

*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.

Prerequisite: one of LABR 1F90 (1P91 and 1P92), SOCI 1F90, WISE 1F90, 2P20 or permission of the instructor.

Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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.*

Restriction: open to LABR and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: LABR 1F90 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.

Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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 and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: LABR 1F90 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.

Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# LABR 3P50

### **Canadian Public Administration**

(also offered as POLI 3P50)

Role of the public sector in the marketplace and the internal operation of government organizations emphasizing the comparison of public and business administration and government-business relations.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of MGMT 1P93 and 1P96, one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99, POLI 2P62 or permission of the instructor.

Completion of this course will replace previous assigned grade in LABR (COMM/ POLI) 2F98.

# LABR 3P65

### **Introduction to Public Policy**

(also offered as POLI 3P65)

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 or permission of the instructor.

# 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 and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: LABR 1F90 (1P91 and 1P92),

SOCI 1F90 or permission of the instructor.  
 Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# LABR 3P67

**Issues in Canadian Public Policy**  
 (also offered as POLI 3P67)

Topics may include criminal, environmental and reproductive policy, gay rights, privacy rights, and public health issues.

*Seminar, 3 hours per week.*

Restriction: open to Public Administration Co-op majors until date specified in the Registration guide.

Prerequisite: LABR 3P65.

# 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 and HIST (single or combined) majors until date specified in Registration guide.

Prerequisite: HIST 2P02 or permission of the instructor.

Completion of this course will replace previous assigned grade in LABR (CANA/ HIST) 3Q95.

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.

Prerequisites: LABR 1F90 (1P91 and 1P92).

Note: topics must be chosen in consultation with a faculty member willing to supervise.

Completion of this course will replace previous assigned grade in LABR 3V95-3V99.

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.

Prerequisites: LABR 1F90 (1P91 and 1P92).

Note: topics must be chosen in consultation

with a faculty member willing to supervise.

Completion of this course will replace previous assigned grade in LABR 3V95-3V99.

LABR 3V90-3V94

**Special Topics in Labour Studies**

Special topics courses not offered on a regular basis.

*Lectures, seminar, 3 hours per week.*

Prerequisites: LABR 1F90 (1P91 and 1P92) or permission of the instructor.

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).

Prerequisite: LABR 3P03 and 3P06 (3F00).

Co-requisite: LABR 4F92 (4P91).

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: 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.*

Prerequisite: LABR 3P03 and 3P06 (3F00).

Co-requisite: LABR 4F90 or 4F91.

Completion of this course will replace previous assigned grade in LABR 4P91.

# 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 4P32

**Advanced Seminar in the 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 instructor.

Note: SOCI 2P32 recommended. Students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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 2F98, 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.

# Mathematics

## Chair

Hichem Ben-El-Mechaiekh

## Professors Emeriti

Howard Bell, Charles F. Laywine, John P. Mayberry, Eric Muller

## Professors

Hichem Ben-El-Mechaiekh, Mei Ling Huang, Ronald A. Kerman, Jan Vrbik, Thomas Wolf

## Associate Professors

Stephen Anco, Henryk Fuks, Thomas A. Enkyns, Yuanlin Li, William J. Ralph

## Assistant Professors

Chantal Buteau, Omar Kihel, Wai Kong (John) Yuen

## Instructors

Dorothy Levay, Dorothy Miners

## Mathematics Learning Resources Manager

Jimmy Au

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## General Information

### Administrative Assistant

Cathy Ugolini

905-688-5550, extension 3300

Mackenzie Chown J415

<http://www.brocku.ca/mathematics/>

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 pure mathematics or statistics.

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, 2F40 and 3F40 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 to obtain 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 a Mathematics major needs 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.

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## Program Notes

1. All students must take three context credits: one Humanities context credit, one Science context credit and one Social Science 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 4P11 and 4P12 or MATH 4P03 and 4P05 and desirable to have all of them.
3. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## 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, Science context credit or Social Science context credit (not taken in Year 1)
- one-half elective credit

### Year 3

- MATH 2P72 and 3F40
- one and one-half MATH credits numbered 3(alpha)00 or above
- two elective credits (see program note 3)

## MATHEMATICS

### Year 4

- Four MATH credits (see program notes 2 and 3)
- one elective credit (see program note 3)

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### Mathematics Pass Program

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#### 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, Science context credit or Social Science context credit (not taken in Year 1)
- one and one-half elective credits

#### Year 3

- Three MATH credits numbered 3(alpha)00 or above
- two elective credits

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### Combined Major Program

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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 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

- MATH 1P01, 1P02, 1P12 and 1P40
- COSC 1P02, 1P03 and 1P50
- one Science 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 Science 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 3)

### Year 5

#### Fall Term:

- One COSC credit (see program note 3)
- one MATH credit (see program note 3)
- one-half elective credit (see program note 3)

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### Programs and Courses for Future Teachers

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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 specialization - MATH 1F92, 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.

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### Concurrent BSc/BEd

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The Department of Mathematics and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEd programs and a BSc (Pass)/BEd program. The Mathematics BSc (Honours)/BEd program 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). The BSc Integrated (Pass)/BEd combines the BSc Integrated Pass program with the teacher education program for students interested in teaching at the Junior/Intermediate level (grades 4-10). Refer to the Education Concurrent BSc (Honours)/BEd (Intermediate/Senior), Education Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) and Education Concurrent BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) program listings for further information.

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### Certificate in Statistics

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The certificate program will be available to people (normally those with a degree in another discipline) who have completed the following

- at least one university Calculus credit
- MATH 2P81, 2P82, 3P81, 3P82, 4P81 and 4P82

•two other credits approved by the Mathematics department and normally selected from mathematics and statistics courses offered by the Mathematics Department.

**Concentration Program**

**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 (with the possible exception of MATH 2P72):

- MATH 2P04, 2P12, 2P13, 3P03, 3P04, 3P12 and 3P13
- MATH 2P71 (recommended) or 2P72
- two credits from MATH 4F90, 4P03, 4P04, 4P11, 4P12, 4P71, 4P92, 4P93

The words "Concentration in Pure Mathematics" will be added to a student's official transcript when the student graduates with a BSc (Honours) in Mathematics having completed the above listed requirements.

**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:

- MATH 2F40, 2P81, 2P82, 3F40, 3P81, 3P82, 4P81, 4P82, 4P84 and 4P85

The words "Concentration in Statistics" will be added to a student's official transcript when the student graduates with a BSc (Honours) in Mathematics having completed the above listed requirements.

**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 elective credit numbered 2(alpha)00 or above
- one elective 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** \*  
 Types of scales; frequency distribution, mean, mode, median and measures of dispersion; elements of probability theory, probability

distributions, non-parametric tests; normal, chi-squared, t- and F-distributions; means and variance tests; analysis of variance, correlation and regression, applications and use of a computer package.

*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 I**

Applications of differential calculus, linearization and optimization; antiderivatives, definite integrals, the fundamental theorem of calculus, numerical integration; logarithms, exponentials, and inverse trigonometric functions, ordinary differential equations and their applications, improper integrals, the use of computer algebra systems.

*Lectures, 4 hours per week; lab/tutorial, 1 hour per week.*

Prerequisites: two OAC mathematics credits including OAC calculus or two grade 12 mathematics credits including MCB4U, or permission of instructor.

**MATH 1P02**  
**Calculus II**

Applications of the definite integral: areas, volumes, and work; infinite series, Taylor's theorem, Taylor series; functions of several variables: and partial differentiation, limits and continuity, gradients, extrema with and without constraints, double integrals; the use of computer algebra systems to solve systems of equations, plot surfaces, compute partial derivatives and evaluate multiple integrals.

*Lectures, 4 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 1P01.

**MATH 1P12**  
**Linear Algebra I**

Introduction to finite dimensional real vector spaces; systems of linear equations: Gaussian elimination, matrix operations and inverses, determinants. Vectors in  $R^2$  and  $R^3$ : dot product and norm, cross product, the geometry of lines and planes in  $R^3$ ; Euclidean n-space, linear transformations for  $R^n$  to  $R^m$ , eigenvalues and eigenvectors; selected applications and use of a computer algebra system.

*Lectures, 4 hours per week.*

Prerequisites: two grade 12 or OAC mathematics credits or permission of instructor.

Note: MCB4U recommended.

## MATHEMATICS

### MATH 1P40

#### 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.*

Prerequisites: MATH 1P01 and 1P12.

### MATH 1P66

#### Mathematics for Computer Science I

Development, analysis and applications of algorithms in computation; elementary logic, proofs; graphs and trees.

*Lectures, 3 hours per week.*

Prerequisite: one grade 12 or OAC mathematics credit.

Note: MCB4U recommended. Designed for students in Computer Science.

### MATH 1P67

#### Mathematics for Computer Science II

Development, analysis and applications of algorithms in combinatorial analysis; discrete probability models; recursion; limiting procedures and summation; difference equations; introduction to automata theory.

*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.

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; nonparametric tests; 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. Note: designed for students in Biological Sciences, Biotechnology, Business, Earth Sciences, Economics, Environment, Geography 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 coordinates; 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.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 1P02.

Completion of this course will replace previous assigned grade in MATH 2P03.

### 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.

*Lectures, lab, 4 hours per week.*

Prerequisites: MATH 1P02 and 1P40.

### MATH 2P03

#### Calculus III

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.

### 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 behavior; modeling and applications of differential equations.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisites: MATH 1P02 and 1P12.

### 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 application.

*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 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 re-service program of the Faculty of Education at Brock University. Not open to students holding credit in any grade 12 (Advanced)/OAC or university mathematics course.

**MATH 2P71**

**Introduction to Combinatorics**

Permutations, combinations, binomial and multinomial expansions; the inclusion-exclusion principle; recurrence relations; ordinary and exponential generating functions. Introduction to graph theory including isomorphism, trees, Euler and Hamilton path problems, planarity and map colouring. Pigeonhole principle and an introduction to classical Ramsey theory.

*Lectures, 3 hours per week; tutorial, 1 hour per week.*

Prerequisites: two grade 12(OAC) 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, matchings.

*Lectures, 3 hours per week; lab, 1 hour per week.*

Prerequisite: MATH 1P12.

Completion of this course will replace previous assigned grade in MATH 2P60.

**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. Discrete and continuous distributions. Transforming random variables, central limit theorem and its applications.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2F05 or 2P03.

Note: MATH 2F05 or 2P03 may be taken concurrently.

**MATH 2P82**

**Mathematical Statistics**

Random sample, sampling distributions of sample mean and variance. Law of large numbers and central limit theorem. Chi-square, t, F distributions. Order statistics. Unbiased, consistent, efficient and robust estimators. Moments, maximum likelihood and Bayesian estimation. Confidence intervals. Hypothesis testing, power function, Neyman-Pearson Lemma, likelihood-ratio test. Linear regression and correlation analysis. Analysis of variance. Nonparametric methods.

*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.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: one MATH credit.

Completion of this course will replace previous assigned grade 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 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.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 1F92 or 1P98.

**MATH 3F40**

**Mathematics Integrated with Computers and Applications III**

Advanced applications of mathematics involving computers. Topics may include deterministic models; equilibrium; optimal control; probabilistic models; models from physics such as the n-body problem, the heat equation and finite element methods, and the driven pendulum; image compressing; genetic algorithms; neural nets; optimization and stochastic processes.

*Lectures, lab, 4 hours per week.*

Prerequisites: MATH 2P03, 2F40 and 2P82.

Co-requisite: MATH 2P72.

Note: projects demonstrating creative application of the course content.

**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; tutorial, 1 hour per week.*

Prerequisites: MATH 1P12, 1P66, 1P67 and 1P97.

**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.

## MATHEMATICS

*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.

*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.

*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 1P12.

### 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; constructability.

*Lectures, 3 hours per week; lab/tutorial 1 hour per week.*

Prerequisite: MATH 3P12.

### 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.

### 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)

Applications of modelling; review of elementary decision theory and subjective probability theory; game theory (Nash equilibrium; two player NZS games; Nash cooperative solution); Shapley value; voting power; selected cases from economics and other applications.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2P72 (2P60) or ECON 3P91.

### MATH 3P75

#### Theory of Financial Mathematics

Probability, Brownian motion, martingales, 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 experiment randomized block designs; Latin square designs; factorial designs;  $2^f$  and  $3^f$  factorial experiments; fixed, random and mixed model nested and nested-factorial experiment; Taguchi experiments; split-plot and confounded in blocks factorial design; factorial replication; regression model computational techniques and computer 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 square polynomial regression, indicator variable selection and model building, multicollinearity, time series, selected topics.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2P82.

### MATH 3P90

**Euclidean and NonEuclidean Geometry II**  
Topics in Euclidean and non-Euclidean geometry chosen from the classification 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 previously assigned grade 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 BSc/BEA MATH majors with a minimum of 9.0 overall credits.

Prerequisite: three MATH credits.

Note: students in the minor programs for teachers may register. Contact the Mathematics Department.

**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 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; tutorial, 1 hour 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 and 2P12.

Completion of this course will replace previous assigned grade 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 in MATH 4F08.

**MATH 4P09**

**Topics in Nonlinear Partial Differential Equations**

Topics may include nonlinear partial differential equations, exact solutions and symmetry methods, global existence of solutions, finite element methods. Quasilinear elliptic equations and variational inequalities. Nonlinear wave equations, solitons and solitary wave solutions. Integrable systems and their properties. Field equations in mathematical physics.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 3P09.

Completion of this course will replace previous assigned grade in MATH 4F08.

**MATH 4P11**

**Topics in Groups and Rings**

Advanced topics from group theory and ring theory. Topics may include the Sylow theorems, free groups, nilpotent and solvable groups and Galois theory.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 3P13.

Completion of this course will replace previous assigned grade in MATH 4F10.

**MATH 4P12**

**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 in MATH 4F10.

**MATH 4P61**

**Theory of Computation**

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; tutorial, 1 hour 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.

## MATHEMATICS

### 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 computer packages; related topics.

*Lectures, 3 hours per week; lab, 1 hour per week.*

Prerequisite: MATH 2P82.

### 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.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2P82.

### 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.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2P82.

Completion of this course will replace previous assigned grade in MATH 4F83.

### 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.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2P82.

Completion of this course will replace previous assigned grade in MATH 4F83.

### 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 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 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 spacetime 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.

# Modern Languages, Literatures and Cultures

## Chair

Ernesto J. Virgulti  
Alexandre L. A. Amprimoz (as of July 1, 2005)

## Professors Emeriti

Leonard Rosmarin, Herbert Schutz

## Professors

Alexandre L. A. Amprimoz (French), Sandra L. Beckett (French), Leslie A. Boldt-Irons (French), Dennis F. Essar (French), Corrado J. A. Federici (Italian), Jane M. Koustas (French)

## Associate Professors

Irene M. F. Blayer (Spanish), Barry W. K. Joe (German)

## Assistant Professors

Cristina Santos (Spanish), Ernesto J. Virgulti (Italian)

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## General Information

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### Administrative Assistant

Alison J. Rothwell

905-688-5550, extension 3312

Mackenzie Chown A240

<http://www.brocku.ca/modernlanguages>

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 and Russian.

The Department of Modern Languages, Literatures and Cultures offers four-year programs of study leading to a BA Honours in French and Spanish, a three-year BA Pass in French, Italian and Spanish degree programs, 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, Spain and Latin America.

### Canadian Year in Freiburg

In co-operation with Acadia University, the University of British Columbia and Trent University, the German section of the Department offers students who have completed GERM 1F90 or its equivalent the opportunity to spend a year abroad at the University of Freiburg. The Canadian resident director will offer an immersion program in the German language and courses in German literature, but students may select courses in any area of study offered by the University of Freiburg. While in Freiburg, students normally assume a full, five-credit load in their disciplines of choice. Among these courses a maximum of three credits may be in German. Two additional credits must be in courses offered by the University of Freiburg, such as: English, another language, history, science.

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## Program Notes

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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 2F90 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. Minor program may include no more than one-half GERM credit given in English.

5. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Pass Program

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### German

#### Year 2

Year 2 is now closed

#### Year 3

- Three credits from GERM MLLC 3P91, 3P92, 3P93, 3P94, 3P95
- two elective credits (see program note 5)

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## Combined Major Program

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### German

#### Year 2

Year 2 is now closed

#### Year 3

- Two GERM or MLLC credits numbered 2(alpha)90 or above
- two credits from the co-major discipline
- one elective credit

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## Minor in German

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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 2F90
- one GERM credit (see program note 4)
- one GERM literature and/or culture credit numbered 2(alpha)00 or above (see program note 4)

MODERN LANGUAGES,  
LITERATURES AND CULTURES

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Course Descriptions

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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

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Prerequisites and Restrictions

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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

Grammatical structures and vocabulary of classical Arabic. Development of the four basic language skills (reading, writing, speaking and listening).

*Lectures, lab/seminar, 4 hours per week.*

Note: open to students with no background in the language.

GERMAN

GERM 1F00

Language (Introductory)

Basic skills: conversational patterns, reading ability emphasizing the spoken language using films, tapes and recordings.

*Lectures, language/computer lab, 4 hours per week.*

Completion of this course will replace previous assigned grade in GERM 1P01 and GERM 1P02.

GERM 1F90

Language (Intermediate I)

Intermediate level. Conversational and written language skills. Introduction to 20th-century German literature using language / computer laboratory, films, tapes and recordings.

*Lectures, language/computer lab, 4 hours per week.*

Prerequisite: GERM 1F00 (1P01 and 1P02) Ontario grade 12 or OAC German or permission of the instructor.

\* GERM 1P93

Culture and Civilization of Central Europe: From the Prehistoric to the Carolingian Period

(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 and the first Germanic kingdoms. Beliefs and practices, artistic style and architecture. Slides are used to illustrate the cultural evidence.

*Lectures, 3 hours per week.*

Note: given in English.

GERM 2F90

Language (Intermediate II)

Intensive study of present-day German language and culture designed to improve communication skills.

*Lectures, language lab, 3 hours per week.*

Prerequisite: GERM 1F90 or permission of the instructor.

GERM 2F92

Language and Literature of the 19th and 20th Centuries.

Intensive study of short literary and socio-cultural texts designed to expand both active and passive vocabularies, comprehension, oral and written skills.

*Lectures, 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.

*Tutorial, 3 hours per week.*

Restriction: permission of the instructor.

Note: a written proposal must be approved by the Chair.

Completion of this course will replace previous assigned grade in GERM 4P16.

GERM 2P94

German Culture and Civilization: The Carolingians to the Present

Survey of German culture and civilization. Topics may include art, architecture, cultural objects, literature and film.

*Lectures, 3 hours per week.*

Prerequisite: GERM 1P93 or permission of the instructor.

Note: given in English. Students doing a Minor in German are required to read literature in the original and to submit essays in German.

Completion of this course will replace previous assigned grade in GERM 1P94.

GERM 3F99

Advanced Language Study

Fluency at an advanced level in speaking, writing and comprehension through tapes, films, written and oral projects, discussions and advanced interpreting and translating.

*Lectures, language lab, 3 hours per week.*

Prerequisite: GERM 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.

*Tutorial, 3 hours per week.*

Restriction: permission of the instructor.

Note: a written proposal must be approved by the Chair.

Completion of this course will replace previous assigned grade in GERM 4P17.

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, 3 hours per week; language lab, 1 hour per week.*

Note: for students with no background in the Japanese language.

Completion of this course will replace previous assigned grade in JAPA 1P00 and 1P01.

MANDARIN CHINESE

MAND 1P00

Mandarin Chinese I

Elementary Mandarin focussing on conversational, listening, basic grammatical structures and understanding of relevant customs. Introduction to Pinyin.

*Lectures, lab, 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 structure, customs and cultural knowledge. Introduction

of Chinese characters.  
*Lectures, lab, 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, lab, 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, lab, 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 focussing 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 Grade 12 credits in French, Italian, Portuguese, Spanish, FREN 1P03, 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 Romance Linguistics**

(also offered as LING 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.

**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 2F90, ITAL 2F00, SPAN 2P20 and 2P21 (2F10) 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 3P95**

**The Contemporary Picture Book**

Selection of contemporary children's picture books from around the world. Dialogue between text and image. Theory of the picture book.

*Lectures, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F90, ITAL 2F00, SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

\* **MLLC 3P99**

**Modern Narratives**

(also offered as GBLS 3P99)

French, German, Italian and Hispanic 20th-century narrative writing. May include avant-garde, surrealist, existentialist, modernist and postmodernist issues.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F90, ITAL 2F00, SPAN 2P20 and 2P21 (2F10) 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 credit in MLLC 3P93.

**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, German, 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.*

Note: given in English. May be counted as part of a major program in French, Italian and Spanish.

**PORTUGUESE**

**PORT 1F00**

**Introductory Portuguese**

Listening, reading, writing and speaking emphasizing a communicative approach to learning a language.

*Lectures, tutorial, 4 hours per week.*

Note: for students with little or 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 to topics of current interest.

*Lectures, tutorial, 4 hours per week.*

Prerequisite: PORT 1F00 or equivalent, or permission of the instructor.

# **PORT 1P95**

**Conquest and Colonization**

(also offered as 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, seminar, 3 hours per week.*

Note: given in English.

# **PORT 2P10**

**Latin American Culture**

(also offered as SPAN 2P10 and INTL 2P10)  
Survey of contemporary social history; the Latin American nations through text and images. Topics include cultural hybridization and identity.

*Lectures, seminar, 3 hours per week.*

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

MODERN LANGUAGES,  
LITERATURES AND CULTURES

# PORT 2P11

**Iberian Culture**

(also offered as SPAN 2P11)

Social, political and cultural history of Portugal and Spain through historical and literary texts, film and other visual arts.

*Lectures, seminar, 3 hours per week.*

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

# PORT 2P82

**Latin American and Iberian Film**

(also offered as FILM 2P82 and SPAN 2P82)

Spanish and Latin American representations of identity crises involving issues of nationality, ethnicity, gender and politics. Pastiche, parody and camp aesthetics, and the envisioning of new possibilities of solidarity leading to social transformations.

*Lectures, seminars 3 hours per week, plus weekly film lab.*

Note: Spanish and Portuguese language films with English subtitles. Given in English. Spanish majors complete written assignments and exams in Spanish.

# 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, seminar, 3 hours per week.*

Prerequisite: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

# 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, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

**RUSSIAN**

**RUSS 1F00**

**Introductory Russian**

Development of the basic skills in language proficiency (reading, writing, speaking and comprehension).

*Lectures, language lab, 4 hours per week.*



## Music

### Chair

Peter Landey  
Brian Power (as of July 1, 2005)

### Associate Professors

Patricia Debly, Peter Landey, Harris Loewen,  
Brian Power

### Assistant Professor

Karin di Bella

### Part time Instructors

Lesley Atreo (organ), Terry Ball (violin and  
viola), Terrance Basom (saxophone), George  
Cleland (violin), Gordon Cleland  
(cello), Terrance Cox (popular culture), Rob  
D'Orante (oboe, cor anglais), Patricia  
Dydnansky (flute), Jonathan Earp (guitar),  
Janice Fralick (French horn), Steven Fralick  
(trombone), Zoltan Kalman (clarinet,  
saxophone), Deborah Linton (voice),  
Catherine MacDonnell-Stephens (bassoon),  
Laura Thomas (percussion), Suzanne Thomas  
(harp), Tim White (wind ensemble, trumpet),  
Rob Wolanski (double bass)

### Piano Technician

George Kolasis

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## General Information

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### 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 in 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 their third and fourth years, students may pursue specialized interests in theory, musicology, composition and applied music. Students may elect to write an Honours thesis.

To proceed to year 4, students must attain a minimum of 60 percent in all MUSI courses. Students with less than 60 percent in a MUSI course must upgrade the course in order to reapply to the Honours program. Students who do not attain honours standing and a minimum of 60 percent in all MUSI courses may continue to year 4 in the BA with Major in Music.

### Facilities

Facilities in the Department of Music include sound-equipped classrooms, a choral studio and library, a Boesendorfer concert grand piano, Yamaha and Kawai 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.

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 24 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.

### 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!!" regular noon-hour concerts and presentations and a guest lecture series featuring distinguished theorists, musicologists and composers. Students

frequently attend masterclasses by eminent visiting 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 skills to complete the course requirements in Music. It is recommended that prospective majors possess a level of keyboard proficiency equivalent to Royal Conservatory Grade IV.

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.

## MUSIC

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### Language Requirement for Humanities Majors

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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.

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### Program Notes

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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 all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

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### BMus Program

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#### Year 1

- MUSI 1F50, 1F90, 1F92, 1P83, 2Y05 and 2Y06
- one Science context credit or one Social Science context credit

#### Year 2

- MUSI 2F90, 2F92, 2P83, 3Y05 and 3Y06
- 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 and 3P83
- one and one-half MUSI credits
- one language credit (see language requirement)
- one elective credit

Students who audit MUSI 3P83 must complete an additional one-half MUSI credit

#### Year 4

- MUSI 4P83
- one-half MUSI credit
- two MUSI credits numbered 3(*alpha*)90 or above
- two elective credits

Students who audit MUSI 4P83 must complete an additional one-half MUSI credit

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### BA Honours Program

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#### Year 1

- MUSI 1F50, 1F90, 1P83, 2Y05 and 2Y06
- one Science context credit
- one Social Science context credit

#### Year 2

- MUSI 2F90, 2P83, 3Y05 and 3Y06
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- one language credit (see language requirement)
- one elective credit

#### Year 3

- MUSI 3P83
- two and one-half MUSI credits
- two elective credits

Students who audit MUSI 3P83 must complete an additional one-half MUSI credit

#### Year 4

- MUSI 4P83
- one-half MUSI credit
- two MUSI credits numbered 3(*alpha*)90 or above
- two elective credits

Students who audit MUSI 4P83 must complete an additional one-half MUSI credit.

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### BA with Major in Music

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This program differs from the Honours program in that honours standing is not required for entry into year 4.

#### Year 1

- MUSI 1F50, 1F90, 1P83, 2Y05 and 2Y06
- one Science context credit
- one Social Science context credit

#### Year 2

- MUSI 2F90, 2P83, 3Y05 and 3Y06
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- one language credit (see language requirement)
- one elective credit

#### Year 3

- MUSI 3P83
- two and one-half MUSI credits
- two elective credits

Students who audit MUSI 3P83 must complete an additional one-half MUSI credit

#### Year 4

- MUSI 4P83
- one-half MUSI credit
- two MUSI credits numbered 3(*alpha*)90 or above
- two elective credits

Students who audit MUSI 4P83 must complete an additional one-half MUSI credit

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### Pass Program

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Satisfactory completion of the first three years of an Honours program entitles a student to apply for a Pass degree.

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### Combined Major Program

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#### 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, 1P83, 2F90, 2P83, 2Y05, 2Y06, 3P83, 3Y05, 3Y06 and 4P83
- one credit from MUSI 3P91, 3P96, 3P97, 3P98, 3P99, 4P50, 4P51
- one MUSI credit

Students who audit MUSI 3P83 and 4P83 must complete an additional MUSI credit

### Pass

Satisfactory completion of the first three years of an Honours program entitles a student to apply for a 3 Year (Pass) degree.

### Music and Great Books/Liberal Studies (Honours only)

Consult the Great Books/Liberal Studies entry for a listing of program requirements.

### 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

##### Listening to Music

Music appreciation course for students with little or no formal instruction in music. Discussion of basic musical materials, instrumentation, forms and techniques for listening critically. Development of a listening repertoire of representative compositions from the Middle Ages to the 20th century.

*Lectures, 3 hours per week.*

Note: major credit will not be granted to Music majors. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

Completion of this course will replace previous assigned credit in MUSI 1P11 or MUSI 1P12.

#### MUSI 1F50

##### History of Music from Medieval to Modern Times

Historical 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), keyboard and aural skills.

Co-requisites: MUSI 2Y05 and 2Y06.

#### MUSI 1F92

##### Applied Music I

Individual and group instruction in one of the following: piano, harpsichord, 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, harpsichord, 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 1P83

##### Choral Ensemble I

Selected choral literature 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: participation in one of the following two ensembles is required: 1) chamber choir; 2) women's chorus. Pitch matching skills required; sight singing skills strongly recommended. Concert uniform is required. Competent vocalists from the University and community are encouraged to audition.

#### 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.

## MUSIC

### 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 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.*

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 (e.g., 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.

### MUSI 2P40

#### **Vocal Techniques**

Practical and theoretical instruction in vocal technique.

*Lectures, 1.5 hours per week for 2 terms.*

Restriction: consult the instructor for permission to register.

Prerequisite: Royal Conservatory Grade II rudiments or equivalent.

Co-requisite: MUSI 1P83, 2P83, 3P83 or 4P83.

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.*

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.*

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.*

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Note: instrumental rental fee may be required.

### MUSI 2P44

#### **String Techniques**

Practical and theoretical instruction in string instruments.

*Lectures, 1.5 hour per week for 2 terms.*

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Note: instrumental rental fee may be required.

### 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.*

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 2P83

#### **Choral Ensemble 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: MUSI 1P83.

Note: participation in one of the following two ensembles is required: 1) chamber choir; 2) women's chorus. Basic sight singing-reading and concert uniform are 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 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.*

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Co-requisites: MUSI 1P83 or 1P84.

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.*

Prerequisites: MUSI 1P83 and 2P93 or permission of the instructor.

Co-requisite: MUSI 2P83, 3P83 or 4P83.

## 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**

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.

*Lectures, 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.

*Tutorial each week for two terms.*

Restriction: open to MUSI (single or combined) majors.

Prerequisite: MUSI 1Y02.

Co-requisites: MUSI 1F90 and 2Y05.

Note: successful completion of a keyboard placement test may be used to satisfy the course prerequisite.

## 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; one solo recital (approx. 20 minutes).*

Restriction: permission of the Department.

Prerequisite: MUSI 2F92 (minimum 75 percent).

Note: lesson fee may be required. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

## 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.

Note: Royal Conservatory of Music Grade VIII (practical) or its equivalent is required.

Completion of this course will replace previous assigned grade in MUSI 3F20.

## 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.*

Prerequisite: MUSI 2P21.

## 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.

Note: Royal Conservatory of Music Grade VIII or its equivalent is required.

## MUSI 3P31

**Diction for Singers**

Principles of pronunciation of song 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.

## MUSIC

### 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.

Prerequisites: MUSI 1F90 and 2F90.

### # MUSI 3P72

#### Popular Music and Society

(also offered as COMM 3P72, PCUL 3P72 and SOCI 3P72)

Critical approaches to popular music in its social, cultural, political and economic contexts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to MUSI (single and combined), COMM (single and combined), PCUL (single and combined) and SOCI (single and combined) majors with a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned grade in MUSI 2P70 (COMM/PCUL/SOCI 2P70) and MUSI 3P70 (COMM/PCUL 3P70).

### 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.*

Prerequisite: MUSI 2F92 or 2P81.

Note: lesson fee. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

### MUSI 3P83

#### Choral Ensemble 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: MUSI 2P83.

Note: participation in one of the following two ensembles is required: 1) chamber choir; 2) women's chorus. Intermediate sight-singing skills and concert uniform are 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 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.*

Prerequisites: MUSI 1F50 and 2F90 or permission of the instructor.

### 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.

Completion of this course will replace previous assigned grade in MUSI 2P53.

### MUSI 3P93

#### Conducting II

Intermediate conducting techniques for ensemble conducting. Topics include asymmetrical patterns, left-hand techniques, meter and tempo changes.

*Lectures, 3 hours per week; field assignments as required.*

Prerequisite: MUSI 2P93 or permission of the instructor.

Co-requisite: MUSI 2P83 or 2P84.

Note: keyboard skills strongly recommended.

Completion of this course will replace previous assigned grade in MUSI 2P95.

### 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.*

Prerequisites: MUSI 2P83, 2P94 and 3P92 (2P95).

Co-requisite: MUSI 3P83 or 4P83.

### \* MUSI 3P95

#### Aesthetics of Music

(also offered as GBLS 3P95)

Issues of meaning, beauty, value, and greatness in music through analysis of selected readings

*Lectures, 3 hours per week.*

Prerequisites: MUSI 1F50; MUSI 2F90

GBLS 2P94 or permission of the instructor.

### 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 Mahler (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.

*Lectures, 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.

*Tutorial each week for two terms.*

Restriction: open to MUSI (single or combined) majors.

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; one solo recital (approx. 30 minutes).*

Restriction: permission of the Department.

Prerequisite: MUSI 3F92 (minimum 75 percent).

Note: lesson fee is required. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

## MUSI 4F99

**Honours Thesis**

Independent study 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 approved by the department by the end of April.

## 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 drama 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 and 3P99.

## 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.

Prerequisites: MUSI 4P50 and 4P51.

## MUSI 4P60

**Composition and Orchestration III**

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 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.*

Prerequisite: MUSI 3F92 or 3P81.

Note: lesson fee. Concert fee. Attendance at Department of Music professional "Encore" concert series is required.

## MUSI 4P83

**Choral Ensemble 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: MUSI 3P83.

Note: participation in one of the following two ensembles is required; 1) chamber choir; 2) women's chorus. Advanced sight singing skills and concert uniform are 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 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**

Theories of harmony, melodic phraseology, organicism, the development of theories of sonata form and motivic development.

*Lectures, 3 hours per week.*

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.

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

Stefan M. Brudzynski, Department of Psychology

## Co-ordinators

David A. Gabriel (Physical Education and Kinesiology)

A Joffre Mercier (Biological Sciences)

## Participating Faculty

Stefan M. Brudzynski (Psychology), David DiBattista (Psychology), Robert L. Carlone (Biological Sciences), Kimberly A. Cote (Psychology), Christian Duval (Physical Education and Kinesiology) Jane Dywan (Psychology), David A. Gabriel (Physical Education and Kinesiology), Dawn E. Good (Psychology), Cheryl McCormick (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

TBA

905-688-5550, extension 3115

Mackenzie Chown MC F236

<http://www.brocku.ca/neurosciel>

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, Neuropsychological 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 second 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. Students, who elect to take one of PSYC 2F12, 2F20 2F50, 3F46, complete one-half elective credit. Students, who elect to take PSYC 3F40 and one of PSYC 2F12, 2F20 2F50, 3F46, are not required to take an elective credit.
3. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 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 2F36
- 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, 3P51, 3P60
- one elective credit

## NEUROSCIENCE

### *Year 4*

#### **Thesis option**

- NEUR 3P67, 4F90 and 4F91
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P35, 3P50, 3P51, 3P60, 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, 4P28, 4P34, 4P53, 4P84 (see program note 3)
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit (see program note 3)

#### **Neuromotor stream**

### *Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

### *Year 2*

- NEUR 2F36
- 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 3P10, 3P94 and 4P10
- one-half elective credit

### *Year 4*

#### **Thesis option**

- NEUR 3P67, 4F90 and 4F91
- PEKN 4P94 and 4P98
- one of BIOL 4P28, 4P34, 4P84
- one elective credit

#### **Library Research option**

- NEUR 3P67 and 4F92
- BIOL 4P28, 4P34 and 4P84
- PEKN 4P98 and 4P94
- 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 2F36
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PSYC 2F23
- one elective credit

### *Year 3*

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- PSYC 3F40 or 3P30 (see program note 2)
- one of LING 2P97, 3P98, 3P99, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P29, 4P56
- one elective credit (see program note 2)

### *Year 4*

#### **Thesis option**

- NEUR 3P67 4F90 and 4F91
- PSYC 3P39
- one credit from LING 2P97, 3P98, 3P99, 4P20, 4P21, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P21, 4P22, 4P29, 4P56, 4V86, 4V87, 4V88 (see program note 3)
- one elective credit (see program note 3)

#### **Library Research option**

- NEUR 3P67 and 4F92
- two and one-half credits from LING 3P98, 3P99, 4P20, 4P21, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P21, 4P22, 4P29, 4P56, 4V86, 4V87, 4V88 (see program note 3)
- one elective credit (see program note 3)

#### **Neuroscience Co-op Program (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.

#### **Neurobiology stream**

### *Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

### *Year 2*

- NEUR 2F36
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PSYC 2F23
- SCIE 0N90
- one elective credit

#### **Spring/Summer Sessions:**

- NEUR 0N01

### *Year 3*

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P38, 3P51, 3P60
- one elective credit

### *Year 4*

#### **Fall Term:**

- NEUR 0N02

#### **Winter Term:**

- NEUR 0N03

### *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, 4P28, 4P34, 4P53, 4P84 (see program note 3)
- 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, 4P28, 4P34, 4P53, 4P84 (see program note 3)
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit (see program note 3)

#### **Neuromotor stream**

### *Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1P91
- PHYS 1P92 or 1P93
- PSYC 1F90
- one Humanities context credit

*Year 2*

- NEUR 2F36
- 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*

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- PEKN 3P10, 3P94 and 4P10
- one-half elective credit

*Year 4*

Fall Term:

- NEUR 0N02

Winter Term:

- NEUR 0N03

*Year 5*

**Thesis option**

- NEUR 3P67, 4F90 and 4F91
- PEKN 4P94 and 4P98
- one of BIOL 4P28, 4P34, 4P84
- 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 2F36
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PSYC 2F23
- SCIE 0N90
- one elective credit

Spring/Summer Sessions:

- NEUR 0N01

*Year 3*

- NEUR 3F81, 3P34, 3P59 and 3P90
- BCHM 3P01
- PSYC 3F40 or 3P30 (see program note 2)
- one of LING 2P97, 3P98, 3P99, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P29, 4P56 (see program note 3)
- one elective credit (see program notes 2 and 3)

*Year 4*

Fall Term:

- NEUR 0N02

Winter Term:

- NEUR 0N03

*Year 5*

**Thesis option**

- NEUR 3P67, 4F90 and 4F91 (see program note 1)
- PSYC 3P39
- one credit from LING 2P97, 3P98, 3P99, 4P20, 4P21, NEUR 4V86, 4V87, 4V88, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P21, 4P22, 4P29, 4P56 (see program note 3)
- one elective credit (see program note 3)

**Library Research option**

- NEUR 3P67 and 4F92 (see program note 1)
- two and one-half credits from LING 3P98, 3P99, 4P20, 4P21, NEUR 4V86, 4V87, 4V88, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P21, 4P22, 4P29, 4P56 (see program note 3)
- one elective credit (see program note 3)

**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 2F36
- 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, LING 2P97, 3P98, 3P99, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P29, 4P56 (see program note 3)
- 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, 4P28, 4P34, 4P53, 4P84, LING 2P97, 3P98, 3P99, 4P20, 4P21, PSYC 2F12, 2F20, 2F50, 3F46, 3P19, 3P68, 3P92, 4P21, 4P22, 4P29, 4P56 4V86, 4V87, 4V88 (see program note 3)
- one elective credit (see program note 3)

**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 2F36

**Physiological Psychology**

(also offered as PSYC 2F36)

Biological aspects of behaviour; functional activities of the brain from the neuron through to the interrelationships among neural systems.

## NEUROSCIENCE

Topics include drugs and behaviour, sensorial and motivational systems, emotion and stress, learning and memory, language and psychiatric disorders.

*Lectures, 2 hours per week; lab, 3 hours per week.*

Restriction: open to NEUR, CHSC, HLSC, KINS and PSYC (single or combined) until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

### # 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 and PSYC (single or combined) major 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 2F36 or permission of the instructor.

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade in NEUR (PSYC) 3F91.

### # 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: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

### # 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 disorders of attention, memory, language, emotion, and problem solving.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NEUR, CHSC, HLSC, LING and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 1.0 PSYC credit above PSYC 1F90.

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade 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 and PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 3.0 PSYC credit above PSYC 1F90.

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade in NEUR (PSYC) 3P97.

### # 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: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01 or PSYC 2F36.

Note: BIOL 3P34 is strongly recommended for students who have not taken PSYC 2F36.

Completion of this course will replace previous assigned grade 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 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 4V86-4V88

#### Special Topics in Comparative Psychology, Neuropsychology and Physiological Psychology

(also offered as PSYC 4V86-4V88)

Structure and content of course varies.

*3 hours per week.*

Restriction: open to NEUR and PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major Manual.

### # NEUR 4V86

#### Selected Topics in Sleep Research

(also offered as PSYC 4V86)

Topics may include sleep need, sleep deprivation, and the role of sleep in learning and memory.

*Seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

**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

Linda Ritchie

## Associate Professor

Linda Ritchie

## Assistant Professors

Heather Lee Kilty, Melanie MacNeil, Lynn Rempel

## Lecturers

Janet Matthews, Sandra Robinson

## Nursing Practicum Co-ordinator

Sandra Micsinszki

## Nursing Learning Resource Centre Co-ordinator

Elizabeth Horsley

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## General Information

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### Administrative Assistant

Sally Lewis

905-688-5550, extension 4660

Shaver Building Room 300

<http://www.brocku.ca/nursing>

The Department of Nursing offers an Honours Bachelor of Science in Nursing (BScN) degree. Students wishing to pursue the four-year BScN degree will complete their first two years collaboratively at the Loyalist College campus in Belleville, Ontario or at the Brock University campus. Upon successful completion of the first two years students will be admitted to the final two years of the program at the Brock campus. 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.

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## Admissions

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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, registration to practice as a registered nurse from the College of Nurses of Ontario.

2. In addition to the academic requirements, Brock University-Loyalist College Collaborative Nursing Baccalaureate Program students and BScN Degree Completion Program students must submit the following:

- Proof of Cardiac Pulmonary Resuscitation (CPR) certification Basic Cardiac Life Support (BCLS) Level C valid for the period of the clinical placements.
- Proof of Immunizations valid for the period of the clinical placements.
- Criminal Record Check may be required by some clinical placement agencies.

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## Program Notes

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1. Failure to succeed after two attempts in a practicum course will result in dismissal from the program.

2. Students require CPR certification prior to commencing NUSC 3P92.

3. In all 20 credit degree programs at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above.

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## Bachelor of Science in Nursing Program

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### 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
- PRAC 2026 Intersession Practicum 1
- PSYC 2004 Psychology
- SOCI 2003 Sociology

#### Year 3

- NUSC 3P12, 3P14, 3P20, 3P50, 3P90, 3P92, 3P94 and 4P20 (see program note 1)
- MATH 1P98
- one Humanities context credit

#### Year 4

- NUSC 4F96, 4F98, 4P40, 4P50, 4P60, 4P75 and 4P92 (see program note 1)

### 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, 2P94, 2P16 and 4P70
- CHSC 2P91, 3P19 and 3P97
- SOCI 1P80

**Year 3**

- NUSC 3P12, 3P14, 3P20, 3P50, 3P90, 3P92, 3P94 and 4P20 (see program note 1)
- MATH 1P98
- one Humanities context credit

**Year 4**

- NUSC 4F96, 4F98, 4P40, 4P50, 4P60, 4P75 and 4P92 (see program note 1)

**Degree Completion Program**

- NUSC 3P10, 3P20, 3P25, 3P40, 3P50, 4F94, 4P20, 4P30, 4P40, 4P60, 4P70, 4P75 and 4P92 (see program note 1)
- CHSC 2P21
- one credit from CHSC 2P91, 3P19, 3P97
- MATH 1P98
- one elective credit (A Humanities context or Social Science 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****Self and Others**

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, 3 hours per week.*

Restriction: open to NUSC majors.

**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.

**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.

**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.

**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.

**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.

Prerequisite: NUSC 1P16.

**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.

**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.

Prerequisite: NUSC 2P12.

**NUSC 2P94****Nursing Practicum: Intercession**

Practice, application and integration of skills and theory in hospital settings.

*30 hours per week for four weeks, selected laboratory sessions.*

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P16.

**NUSC 3P10****Theoretical Foundations of Nursing**

Nursing models and selected interdisciplinary theories. Underlying foundations, principles, and concepts as frameworks for practice. Critical thinking and analysis of nursing models.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

**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.

**NUSC 3P14****Promoting Mental Health**

Nursing models and selected interdisciplinary theories, underlying foundations, principles and concepts related to individuals and families with mental health challenges across the lifespan.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

**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.

## NURSING

### 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

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.

### 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 3P92.

Note: may include 2 six-week rotations. 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 individuals and families experiencing mental health challenges across the lifespan.

*15 hours per week, selected laboratory sessions.*

Restriction: open to NUSC majors.

Prerequisite: NUSC 2P94.

Note: may include 2 six-week rotations.

Transportation to clinical placement is a student responsibility.

### NUSC 3P94

#### Nursing Practicum: Intercession

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.

Prerequisite: NUSC 3P90.

Note: transportation to clinical placement is a student responsibility. Students require CPR certification prior to commencing NUSC 3P94.

### 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 3P10.

Note: transportation to clinical placement is a student responsibility. Failure to succeed after two attempts will result in dismissal from the program.

### 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 3P10.

Note: 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.

Prerequisite: NUSC 4P92.

Note: 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: transportation to clinical placement is a student responsibility.

### NUSC 4P20

#### Leadership in Nursing and Management I

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.

### NUSC 4P30

#### Health Assessment

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.

### 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.

### 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.



## NUSC 4P70

**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 4P75

**Diversity and Health**

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.

## 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: Brock/Loyalist students may take NUSC 4P40 concurrently. Transportation to clinical placement is a student responsibility.

# Oenology and Viticulture

*This program is offered through the Department of Biological Sciences*

*Chair*  
Joffre Mercier

*Co-ordinator, Experiential Learning*  
E. Brian Grant

*Instructors/Senior Demonstrators*  
Daryl Dagesse, David Hulley, Kevin W. Ker, Christopher Waters

*Senior Laboratory Demonstrator*  
Gail Higenell

*Participating Faculty*  
Linda Bramble, Margaret Cliff, Carman Cullen, Helen Fisher, Debra Inglis, Ronald S. Jackson, Isabelle Lesschaeve, Wendy McFadden-Smith, Gary Pickering, Andrew G. Reynolds, Anthony B. Shaw

*Co-operating Faculty from:*  
Biological Sciences, Chemistry, Computer Science, Earth Sciences, Geography, Management, Marketing and Human Resources, Mathematics, Physics, and Recreation and Leisure Studies

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## General Information

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*Administrative Co-ordinator*  
Barb Tatarnic

905-688-5550, extension 4652  
Inniskillin Hall 206  
<http://www.brocku.ca/ccovilacad/>

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 as well as practical skills in Oenology and Viticulture together 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. A unique feature of this

program is its strong base in biotechnology which has been used for centuries in fermentation and the making of bread, wine and cheese. It encompasses the scientific disciplines pertaining to the grape and wine industry such as sensory science, biochemistry, 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.

Oenology and Viticulture considers industry experience 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 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).

Students can participate in Experiential Learning, consisting of an approved program of industry service. Each provides an opportunity for the student to participate in a variety of industry activities not available during the longer Co-op work placements. Experiential Learning is not a program requirement but students are encouraged to take advantage of these opportunities to gain a wider range of industry experience.

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 Co-ordinator of Experiential Learning and the Experiential Learning Opportunities & Policies 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.

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## Program Notes

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1. Students are required to complete three Co-op work terms. Students must contact the Co-ordinator of Experiential Learning regarding these courses.
2. ECON 1P91 and 1P92 are strongly recommended as the Social Science context credit.
3. RECL 1P98 or 3P68 recommended.
4. 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 Co-ordinator of Experiential Learning.
5. In all 20 credit degree programs at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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## Honours Program (Co-op only)

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### Year 1

- OEVI 1P20
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- PHYS 1P23 or 1P93
- one Humanities context credit or Social Science 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 Science context credit not taken in year 1

Spring/Summer Sessions:

- OEVI 0N31 and 4P30

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, BTEC 2P09, 2P63, 3P62, 3P63,
- one elective credit (see program note 3)

Spring/Summer Sessions:

- OEVI 0N32 and OEVI 4P30 (if not taken in year 2)

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, 4P03, 4P06, 4P57, 4P58, 4P64, BTEC 3P09, 3P62, 3P63, 4P08
- one elective credit (see program notes 4 and 5)

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 of 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 and 4P30
- one and one half credits from OEVI 2P97, 3P12, 4P20, 4P92, BCHM, BIOL, BTEC or CHEM courses 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.

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, 2 hours per week; lab, 2 hours per week.*

Note: materials fee required. Students must be a minimum of 18 years of age. Other students should consult the Co-ordinator of Experiential Learning.

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: students must be a minimum of 18 years

of age. Other students should consult the Co-ordinator of Experiential Learning.

Completion of this course will replace previous assigned grade credit in OEVI 3P45.

# 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 and GEOG (single or combined) 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, 3 hours per week; lab, 3 hours per week.*

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisite: BIOL 1F90 and CHEM 1F92.

Note: students must be a minimum of 18 years of age. Other students should consult the Co-ordinator of Experiential Learning.

# 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 and GEOG (single or combined) 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

## OENOLOGY AND VITICULTURE

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 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 sulfur dioxide; must adjustments; biochemistry of alcoholic and malo-lactic fermentation; bitartrate and protein stability; fining agents; wine aging and phenolic oxidation. Laboratories section will include juice/wine chemical analysis, fermentation and stability tests.

*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: 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; malolactic 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.

OEVI 4F90

### **Research Project**

Experimental research carried out under faculty supervision.

Restriction: open to OEVI majors with approval to year 4 (honours).

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).

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).

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, 2 hours per week; lab, 3 hours per week.*

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisite: MATH 1P98.

Note: materials fee required. Students must be a minimum of 18 years of age.

\*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.

#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 OEVI certificate students or permission of the instructor.

Completion of this course will replace previous assigned grade 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**

Distinguishing among wine varieties from Canada and around the world. Varieties include Chardonnay, Riesling, Merlot, Pinot Noir, Cabernet. Factors affecting wine quality. Restriction: permission of the instructor.

Note: materials fee required. Students must be a minimum of 18 years of age. Other students should consult the Co-ordinator of Experiential Learning. This course must be taken by OEVI majors in year 2 or year 3. Available to the general public.

OEVI 0N02

### **Introduction to the Wines of Ontario**

Tasting Ontario wines. How wines are grown and made.

Restriction: permission of the instructor.

Note: materials fee required. Students must be a minimum of 18 years of age. Other students should consult the Co-ordinator of

Experiential Learning. Admission to the course requires application through the Institute. This course may be taken by OEVI majors in year 2 or year 3. Available to the general public. This course includes the Wine Council of Ontario Certification.

#### OEVI 0N03

##### **Wine Appreciation II**

Deepening and refining wine tasting skills as well as exploring some of the world's most fascinating wines.

Prerequisite: OEVI 0N01 or permission of the instructor.

Note: materials fee required. Students must be a minimum of 18 years of age. Other students should consult the Co-ordinator of Experiential Learning. Admission to the course requires application through the Institute. This course may be taken by OEVI majors in year 2 or year 3. Available to the general public.

### **EXPERIENTIAL LEARNING COURSES**

#### OEVI 0N14

##### **Experiential Learning: Ice Wine Production**

Participation in the full range of procedures for ice wine production

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N15

##### **Experiential Learning: Sparkling Wine Production**

Participation in the full range of procedures for sparkling wine production

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N16

##### **Experiential Learning: Cellar Operations**

Participation in an approved program of cellar activities other than those included in OEVI 0N11, 0N14 and 0N15.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N20

##### **Employment Experience Viticulture**

Participation in an appropriate range of vineyard operations.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N21

##### **Employment Experience The Crush and Fermentation**

Participation in an appropriate range of winery operations during the crush and early phases of the wine making process.

Restriction: restricted to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N22

##### **Employment Experience Cellar Operations**

Participation in an appropriate range of winery operations during a period of time other than the crush and early phases of the wine making process.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N23

##### **Employment Experience Tourism and Marketing**

Participation in a range of experiences in sales and/or promotion of local grape products and/or events.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

### **CO-OP COURSES**

#### OEVI 0N31

##### **Co-op Work Term I**

Work experience in an appropriate sector of the Grape and Wine industry.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning 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. Consult the Co-ordinator of Experiential Learning regarding permission to register.

#### OEVI 0N33

##### **Co-op Work Term III**

Work experience in an appropriate sector of the Grape and Wine industry.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning 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. Consult the Co-ordinator of Experiential Learning 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. Consult the Co-ordinator of Experiential Learning regarding permission to register.

# Philosophy

## Chair

Hans-Georg Moeller

## Professor Emeritus

J. R. A. Mayer

## Professors

Murray L. Miles, R. Raj Singh

## Associate Professors

Richard S. G. Brown, Wing-Cheuk Chan,  
Hans-Georg Moeller

## Assistant Professors

Michael Berman, Christine Daigle, Rohit Dalvi

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## General Information

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### Administrative Assistant

Irene Cherrington

905-688-5550, extension 3315

Schmon Tower 1130

<http://www.brocku.ca/philosophy/>

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.

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## Language Requirement for Humanities Majors

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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.

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## Program Notes

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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. Although all year 4 level courses are intended for fourth-year PHIL Honours Majors, students at the year 3 level may take the equivalent of one year-4 credit if they have obtained second-class honours standing or with the permission of the department. No undergraduate student may take more than one credit in the form of honours tutorials.

5. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- One of PHIL 1F90, 1F91, 1F93, 1F94 (see program note 1)
- one Science context credit
- one Social Science 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

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## Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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## Combined Major Program

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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)

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**Minor Program**


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**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 2P08, 2P81, 2P82, 2P93, 2P95, 2P99, 2V85-89, 3P10, 3P80, 4V00-04

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**Master of Arts (MA) Program**


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A Master's program is offered, focussing 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.

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**Course Descriptions**


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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

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**Prerequisites and Restrictions**


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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 in PHIL 1F91, 1F93 and 1F94 except with permission of the department.

**PHIL 1F91****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 in PHIL 1F90, 1F93 and 1F94 except with permission of the department.

**PHIL 1F93****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 in PHIL 1F90, 1F91 and 1F94 except with permission of the department.

**PHIL 1F94****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 in PHIL 1F90, 1F91 and 1F93 except with permission of the department.

**PHIL 2F93****Philosophical Psychology**

Philosophical and historical foundations of Freudian and post-Freudian theories concerning the nature of the human psyche. Theories and theorists include exorcism (Gassner), animal magnetism (Mesmer), the school of Nancy (Bernheim), Charcot, Freud, Jung and Adler.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one PHIL or PSYC credit or permission of the instructor.

**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, seminar, 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, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in PHIL 2F01.

**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).

Completion of this course will replace previous assigned grade in PHIL 2F01.

## PHILOSOPHY

### 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 2P08

**Ethics: Foundation and Cases**  
Investigation into the basis of our beliefs about right or wrong, good or bad as well as contentious moral issues, such as abortion, euthanasia and animal rights, with attempts to explain the ultimate basis of such disagreements. Conclusions attempt to explain why consensus eludes us.  
*Lectures, 3 hours per week.*  
Completion of this course will replace previous assigned grade in PHIL 2F09.

### PHIL 2P09

**Ethics: Major Ethical Theories and Philosophies of Life**  
Examines Plato, Aristotle, Kant, Mill and contemporary thinkers.  
*Lectures, 3 hours per week.*  
Completion of this course will replace previous assigned grade in PHIL 2F09.

### \* PHIL 2P12

**Indian Philosophy: An Introduction to Hindu Thought**  
(also offered as INTL 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.*

### \* PHIL 2P13

**Indian Philosophy: An Introduction to Buddhist Thought**  
(also offered as INTL 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, seminar, 3 hours per week.*

### 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, seminar, 3 hours per week.*

### \* PHIL 2P17

**Introduction to Chinese Philosophy**  
(also offered as INTL 2P17)  
Confucian, Taoist and Chinese Buddhist philosophical traditions examined in conjunction with appropriate texts.  
*Lectures, 3 hours per week.*

### 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 GBL 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: one of PHIL 1F90, 1F91, 1F93, 1F94.

### 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 2P81

**Ethics in Film**  
(also offered as FILM 2P81)  
Critical examination of the development and resolution of moral problems and ethical dilemmas arising in selected (mostly recent) films.  
*Lectures, seminar, lab, 4 hours per week.*  
Prerequisite: one PHIL credit or FILM 1F94 or permission of the instructor.

### # 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 in MGMT 3P82.

### PHIL 2P92

**Philosophy of Love**  
Consideration of the question "What is love?" in such philosophical texts as those of Plato, Aquinas, Kierkegaard and Scheler and in literary figures of the student's choice, including Dante, Shakespeare, Goethe and Byron.  
*Lectures, seminar, 3 hours per week.*

### PHIL 2P93

**Mass Media and Philosophy**  
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.*

### \* 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 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.

#### 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

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, seminar, 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, seminar, 3 hours per week.*

Prerequisite: one PHIL credit or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2P99.

#### # PHIL 2Q98

##### The Artistic Experience

(also offered as GBL 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 1F98 or permission of the instructor.

#### 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, seminar, 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, seminar, 3 hours per week.*

Prerequisite: one PHIL credit or permission of the instructor.

#### PHIL 3P10

##### Gandhi and Non-Violence

Gandhi as an original philosopher who has contributed 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 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 3P20

##### Scholastic Philosophy

Great Islamic, Jewish and Christian philosophers of the 13th century.

*Lectures, 3 hours per week.*

Prerequisite: one PHIL credit or permission of the instructor.

#### PHIL 3P60

##### 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.

#### 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

## PHILOSOPHY

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 and 2P01 (2F01) 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 2P00 and 2P01 (2F01) 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 3P95

**Taoism**

Taoist philosophy of the classical period focussing on the *Lao Tzu (Tao Te Ching)* and the *Chuang Tzu*.

*Seminar, 3 hours per week.*

Prerequisite: PHIL 2P17, one PHIL 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 Schopenhauer, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, Foucault.

*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 Schopenhauer, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, Foucault.

*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) and PHIL (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 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### # 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 PHIL (single or combined) 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 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### # 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 PHIL (single or combined) 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 1F90.

Note: students Minor in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### 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.

Completion of this course will replace previous assigned grade in PHIL 3M95-3M99.

### 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, focussing primarily 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.

Completion of this course will replace previous assigned grade in PHIL 3P58 and 3P98.

# PHIL 4P47

**Contemporary Approaches to Consciousness**  
(also offered as PSYC 4P47)

Cognitive, philosophical, neuropsychological, physical and phenomenological perspectives on consciousness, including the work of James, Sperry, Gibson, Penrose, Wittgenstein, Husserl and Heidegger, and research on metaphor and self-organizing natural systems.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and PHIL (single or combined) majors with approval to year 4 (honours).

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 4V00-4V04

**Advanced Studies in Political Philosophy**

Examination of either a particular thinker or a problem in political philosophy. Political philosophers may include Plato, Aristotle, Hobbes, Locke, Rousseau, Kant, J. S. Mill, Rawls and Nozick. Problems may include liberty and political obligation, justice and equality, human nature and the political order, civil disobedience, participation and consent, liberalism, anarchism, socialism and conservatism.

*Seminar, 3 hours per week.*

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V01

**2005-2006: Advanced Studies in Political Philosophy**

*Seminar, 3 hours per week.*

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V06-4V14

**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

Danny Rosenberg

## Undergraduate Co-ordinator

Tammy Campbell

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## General Information

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### Administrative Assistants

Susan Gale-Wolbert

(905) 688-5550, extension 4358  
Walker Complex 283

Donna Phelps

905-688-5550, extension 4957  
Walker Complex 282  
<http://www.brocku.ca/deptphysed/>

The Department of Physical Education and Kinesiology offers a 20 credit Bachelor of Physical Education (BPhEd) degree, a Concurrent Bachelor of Physical Education/Bachelor of Education (BPhEd (Honours)/BEd) Intermediate/Senior and a BPhEd (Honours)/BEd Primary/Junior degree. Within the BPhEd degree students may choose one of three majors. The Department of Physical Education and Kinesiology is 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 and a minimum 60 percent non-major average. The requirement for graduation with a BPhEd with Major 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 June 1. These are limited enrolment programs. 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. Depending on program taken, 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) or Intermediate/Senior (grades 7-12).

The BPhEd General major provides students with a broadly based understanding of the discipline. This stream allows maximum opportunity for students to pursue various combinations of courses within their particular areas of interest.

The BPhEd Disability Studies major focusses on the therapeutic and holistic benefits of physical activity. This stream allows students to gain an understanding of the application of movement analyses and programming to persons living with disabilities and chronic conditions.

The BPhEd Movement Studies major offers a combination of theoretical and practical courses in physical education. This stream allows students to apply movement knowledge in educational contexts such as teaching, coaching, programming and administration.

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## Program Notes

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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, 1P93, COSC 1P95 and a minimum 60 percent overall average.
2. Changing majors may require additional courses; students should consult the Department of Physical Education and Kinesiology.
3. Students should consult with the Department of Physical Education and Kinesiology regarding their program requirements.
4. BPhEd majors must take a minimum of two elective credits outside the Department of Physical Education and Kinesiology.
5. 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.

6. BPhEd majors are strongly recommended to take an emergency First Aid/CPR course.

7. The following courses are available for Science credit: PEKN 2P04, 2P09, 2P82, 2P97, 3P10, 3P90, 4P08, 4P10, 4P94, 4P97, 4P98.

8. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

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## Programs of Study

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### General

#### Year 1

- PEKN 1P90 and 1P93
- COSC 1P95
- one Science context credit
- one Humanities context credit
- one Social Science context credit
- one-half elective credit

#### Year 2

- PEKN 2P00, 2P04, 2P05, 2P08, 2P09, 2P41, 2P84 and 2P91
- PEKN 2P03 or 2P06
- one-half elective credit

#### Year 3

- PEKN 2P90, 2P95, 3P00, 3P10 and 3P70
- PEKN 2P44 or 2P92
- one of PEKN 2P66, 3P03, 3P06, 3P16, 3P91
- PEKN 3P08 or 3P18
- one elective credit

#### Year 4

- One of PEKN 3P41, 3P93, 4P11, 4P50
- one PEKN credit numbered 3(alpha)90 or above
- two PEKN credits
- one and one-half elective credits (see program notes 4 and 8)

### Disability Studies

#### Year 1

- PEKN 1P90 and 1P93
- COSC 1P95

- one Science context credit
- one Humanities context credit
- one Social Science context credit
- one-half elective credit

*Year 2*

- PEKN 2P00, 2P04, 2P05, 2P08, 2P09, 2P41, 2P82, 2P84 and 2P92
- PEKN 2P03 or 2P06

*Year 3*

- One credit from PEKN 2P66, 3P00, 3P03, 3P06, 3P16, 3P91
- PEKN 2P44, 2P90, 2P95, 3P23, 3P41, 3P70 and 3P92
- PEKN 3P08 or 3P18

*Year 4*

- PEKN 3P10, 3P93 and 4F02
- PEKN 4P12 or 4P22
- one PEKN credit numbered 3(alpha)90 or above
- one and one-half elective credits (see program notes 4 and 8)

**Movement Studies***Year 1*

- PEKN 1P90 and 1P93
- COSC 1P95
- one Science context credit
- one Humanities context credit
- one Social Science context credit
- one-half elective credit

*Year 2*

- PEKN 2P00, 2P03, 2P04, 2P05, 2P06, 2P08, 2P09, 2P41 and 2P84
- one-half elective credit

*Year 3*

- PEKN 2P44 or 2P92
- one of PEKN 2P66, 3P03, 3P06, 3P16, 3P91
- PEKN 2P90, 2P95, 3P00, 3P10 and 3P70
- PEKN 3P08 or 3P18
- one elective credit

*Year 4*

- PEKN 3P41, 3P93, 3P97 and 4F93
- one PEKN credit numbered 3(alpha)90 or above
- one and one-half elective credits (see program notes 4 and 8)

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**Description of Courses**


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See relevant calendar entry for course descriptions.

# Physical Education and Kinesiology

## Chair

Danny Rosenberg

## Professors

Maureen Connolly, John Corlett, Anna H. Lathrop, Michael Pyley

## Associate Professors

Lorne J. Adams, Bareket Falk, Nancy R. Francis-Murray, David Gabriel, Paulette Côté, Panagiota Klentrou, James L. Mandigo, Danny Rosenberg, Diane Stevens, Philip J. Sullivan

## Assistant Professors

Allan Adkin, Christian Duval, Gail Frost, Kimberley L. Gammage, Kelly L. Lockwood, Sandra J. Peters, Ian Ritchie, Brian D. Roy, Rene Vandeenboom, Cathy van Ingen, Margarita Vikander, Philip Wilson

## Lecturers

Barbara Kennedy, Jae Patterson

## Movement Specialist

Madelyn Law, Janet Westbury

## Adjunct Professor

Joseph P. Kenny

## Undergraduate Co-ordinator

Tammy Campbell

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## General Information

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### Administrative Assistant

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Walker Complex 283

### Administrative Assistant

Donna Phelps

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Concurrent Bachelor of Physical Education (Honours)/Bachelor of Education (BPhEd (Honours)/BEd) Intermediate/Senior, BPhEd (Honours)/BEd Primary/Junior degree, Bachelor of Kinesiology (BKin) and a Bachelor of Science in Kinesiology (BSc(Kin)) degree. Within the BPhEd degree students may choose one of three majors. The Department of Physical Education and Kinesiology is accredited through the Canadian Council of Physical Education and Kinesiology Administrators.

Requirement for graduation with a BPhEd (Honours) BKin (Honours) or BSc (Kin) (Honours) degree is a minimum 70 percent major average and a minimum 60 percent non-major average. Requirement for graduation with a BPhEd with a Major, a BKin or BSc (Kin) with a major degree is a minimum 60 percent major average and a 60 percent minimum 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 June 1. These are limited enrolment programs. 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. Depending on program taken, 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) or Intermediate/Senior (grades 7-12).

The BPhEd General major provides students with a broadly based understanding of the discipline allowing a maximum opportunity for students to pursue various combinations of courses within their particular areas of interest.

The BPhEd Disability Studies major focusses on the therapeutic and holistic benefits of physical activity allowing students to gain an understanding of the application of movement analyses and programming to persons living with disabilities and chronic conditions.

The BPhEd Movement Studies major offers a combination of theoretical and practical courses in physical education allowing students

to apply movement knowledge in educational contexts such as teaching, coaching, programming and administration.

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.

The BSc (Kin) degree focusses on the biophysical aspects of kinesiology and prepares students for careers in 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.

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## Science Credit Courses

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PEKN 2P04, 2P09, 2P82, 2P97  
PEKN 3P10, 3P90  
PEKN 4P08, 4P10, 4P94, 4P97, 4P98

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## Course Descriptions

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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

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## Prerequisites and Restrictions

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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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin, BSc (Kin) and NURS 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, seminar, lab, 4 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 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, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 in SPMA 1F90.

#### PEKN 2P03

##### Educational Gymnastics I

Application of Laban's principles in the educational gymnastics environment. The

content of educational gymnastics is used to analyse movement and to develop motor performance. Practical application of theory pursued in lab situations.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin, BSc (Kin), NEUR and BRLS (Inclusive and Therapeutic) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P90 or BIOL 1F90.

#### PEKN 2P05

##### Motor Behaviour I

Introduction to neurophysiological structures involved in the production and learning of motor skills. Applications in teaching and coaching.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors with a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P90.

#### 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: COSC 1P95 or MATH 1P98.

Completion of this course will replace previous assigned grade in CHSC 2P07, 2Q07, RECL 2P07, SPMA 2P07 and TOUR 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 or BIOL 1F90.

Completion of this course will replace previous assigned grade in CHSC 2P09.

#### PEKN 2P19

##### Coaching Theory

Comprehensive introduction to coaching principles, including sport psychology, training principles, sport pedagogy and risk management.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits. Prerequisite: PEKN 1P90.

#### 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/

## PHYSICAL EDUCATION AND KINESIOLOGY

BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

### 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, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

### # PEKN 2P66

#### Outdoor Pursuits in Physical Education and Recreation

(also offered as RECL 2P66)

Theoretical and applied principles related to skills, task analysis, leadership, and instruction, and experiential learning in the outdoors.

*Lectures, lab, field experience, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin, BSc (Kin) and RECL majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P93 or RECL 1P96 or permission of the instructor.

Note: field experience fee will be charged, consult Department.

Completion of this course will replace previous assigned grade in PEKN 3P05 and PEKN (RECL) 3P46.

### 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. Risk management strategies and safety practices in sport emphasized.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 2P04.

### PEKN 2P82

#### Neurokinesiology

Neuronal aspects of motor behaviour: neuroanatomy, functional activities of the neuron, interrelationships among neural systems (brain organization and sensorimotor integration).

*Lectures, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P90.

### 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P90.

### 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 1P90 OR PSYC 1F90.

### 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior) and BPhEd majors until date specified in Registration guide.

Prerequisite: PEKN 2P09.

Completion of this course will replace previous assigned grade in PEKN 2P97.

### PEKN 2P91

#### Social History of Physical Education and Sport

Socio-cultural evolution of physical activity from ancient times to the present emphasizing Europe and North America.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Note: applied work, placement/practical required.

### \* PEKN 2P93

#### Rhythmic Activities for Children

(also offered as CHYS 2P93)

Elements of rhythm and rhythmic abilities; role of rhythm in motor skill acquisition/performance; practical experiences with small apparatus; methods of music education and curriculum planning.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin, BSc (Kin), BA CHYS ([Pass]/BEd Primary/Junior and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: one of PEKN 1P90, CHYS 1F90, PSYC 1F90.

### \* PEKN 2P94

#### Physical Activity for Preschoolers

(also offered as CHYS 2P94)

Movement experiences for pre-schoolers in dance, games and gymnastics. Topics include the impact of physical activity on the developing child, pre-schoolers' characteristics and needs, motor development principles and



planning age-appropriate movement activities.  
*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin, BSc (Kin), BA CHYS (Pass)/BEEd Primary/Junior and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.  
Prerequisite: one of PEKN 1P93, CHYS 1F90, PSYC 1F90.

PEKN 2P95

**Psychology of Physical Activity I**

Psychological bases and implications of physical activity in sport and physical education. Topics include personality, motivation, achievement needs, group interaction.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 in PEKN 2P90.

PEKN 3P00

**Formal Games**

Similarities and differences in formal games though an examination of skills, rules and strategies. Practical and theoretical work designed to improve personal performance.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.  
Prerequisite: PEKN 1P93.

PEKN 3P02

**Functional Fitness Assessment and Exercise Prescription I**

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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisites: PEKN 2P04; PEKN 2P09 or 2P97.

PEKN 3P03

**Educational Gymnastics II**

Designed to facilitate skill development and understanding in the area of educational gymnastics through advanced practical experience and theoretical application of Laban's movement principles.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 3P06

**Dance Composition**

Dance composition for the educational setting. Dance styles and stimuli. choreographic forms. Dance observation and critique.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 in CHSC 3P07, 3Q07, RECL 3Q07, SPMA 3P07 and TOUR 3Q07.

PEKN 3P10

**Biomechanics I**

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, 4 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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.

PEKN 3P16

**Folk and Social Dance**

Performance and analysis related to movement concepts and current culture. Adaptations for various age groups and disabilities.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 5.0 overall credits or permission of the instructor.

PEKN 3P18

**Qualitative Approaches to Inquiry**

Theories, approaches, designs, methods and procedures for evaluative analyses.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEEd (Intermediate/Senior), BPhEd (Honours)/BEEd (Primary/Junior), BPhEd, 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 in CHSC 3Q17, RECL 3Q17, SPMA 3P17 and TOUR 3Q17.

PEKN 3P23

**Functional and Expressive Movement for Diverse Populations**

Thematically organized assessment protocols and appropriate activity programming for

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diverse and under-resourced groups. Contexts include aquatics, dance, games, outdoor pursuits, therapeutic movement, and activities of daily life.

*Lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisites: PEKN 2P92; one of PEKN2P00, 2P03, 2P06.

### 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: one of PEKN 2P00, 2P03, 2P06 2P66, 3P16.  
Note: in School experience is required for all students. Transportation to in school experience 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 focussing on choices of concern to individuals in our society.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

### PEKN 3P70

#### **Sociology of Physical Activity 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc

(Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

### PEKN 3P75

#### **Mental Training**

Integration of reading, research, and applied work in mental training and applied sport psychology. Analysis, discussion and practical application of mental skills such as arousal management, attention control, decision making, goal setting, positive self-talk and time management.

*Lectures, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 3P76

#### **Contemporary Issues and Trends in Dance**

Nature and meaning of dance as a performing art. Emergence of knowledge base in dance from the social sciences, humanities and movement sciences; dance and other performing arts; dance in higher education, international trends and dance research.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits or permission of the instructor.

### PEKN 3P80

#### **Clinical and Field Practices in Athletic Therapy**

Emphasis on musculo-skeletal assessment of the upper appendage, patient management skills, advanced emergency care, therapeutic modalities, rehabilitation techniques and taping.

*Lectures, internship, 5 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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.

### PEKN 3P81

#### **Clinical Assessments in Athletic Therapy**

Functional and surface anatomy of the major joints; the clinical skills used in the assessment of musculo-skeletal injuries related to the lower appendage and lower back. Qualitative posture and gait assessment.

*Lectures, internship, 5 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 3P80.

Note: clinical internship required. Enrolment limited to 22 students per section.

### PEKN 3P82

#### **Directed Study in Disabilities Studies**

Focussed exploration of selected topics in disability studies.

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 2P92 or permission of the instructor.

Note: may involve placement. Bi-weekly meetings.

Completion of this course will replace previously assigned grade in PEKN 3V92.

### 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisite: PEKN 1P90 or PSYC 1F90.

Completion of this course will replace previously assigned grade in PEKN 3V95.

### 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, lab, 4 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisites: PEKN 2P04; PEKN 2P05 or NEUR 2F36.

Note: lab fee is required.

PEKN 3P92

**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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 2P82 or NEUR 2F36.

Note: applied work, placement/practica required.

PEKN 3P93

**The Lived Body in 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in

Registration guide. Students must have a minimum of 9.0 overall credits.

PEKN 3P94

**Motor Behaviour II**

Neural organization and processes underlying the generation and learning of human movement. Information processing, memory and attention underlying skilled performance.

*Lectures, lab/seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.

Prerequisites: PEKN 2P05 and 2P82, or NEUR 2F36.

PEKN 3P95

**Psychology of Physical Activity II**

Integration of reading, research, and applied work in the area of social psychology of sport. Analysis and discussion of research and readings on the effects of group interaction and cohesion on performance.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 3P97

**Observational Techniques**

Movement observation techniques, analysis of movement patterns, factors influencing movement behaviour and the recording of movement patterns.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc

(Kin) 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.

PEKN 3P99

**Special Studies in Physical Education and Kinesiology**

Directed study in specialized areas.

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 3Q90

**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 3 hours bi-weekly.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide.

Prerequisites: PEKN 3P10, 3P90 and 3P94.

PEKN 3V91-3V99

**Selected Topics in Physical Education**

Lectures, seminars and practical experiences offered in specialized areas of physical education.

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors with a minimum of 9.0 overall credits and permission of the Department.

Note: approval of a faculty member and the Chair required.

PEKN 4F02

**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, fieldwork, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd

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(Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.  
Prerequisite: PEKN 3P23.

### PEKN 4F90

#### Research Seminar in Physical Education and Kinesiology

Advanced analysis of the research process in physical education and kinesiology. Data collection and analysis in qualitative and quantitative investigations.

*Tutorial, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 3P08 or PEKN 3P18.

### PEKN 4F91

#### Thesis/Project

Directed study in an approved area of specialization.

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 4F92

#### Practicum in Disability Studies

Direct contact placement involving design, implementation and evaluation of appropriate physical, behavioural and movement programming.

*60 hour practicum; lectures, alternating weeks.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide.

Prerequisite: PEKN 3P23 or permission of the instructor.

Note: liaison with parents, institutions, schools, non-profit organizations and government agencies.

Completion of this course will replace previous assigned grade in PEKN 3V92 and 4M92.

### PEKN 4F93

#### Advanced Movement Seminar

Advanced skills in functional and expressive movement. Application of theoretical knowledge in a variety of disciplinary contexts.

*Movement seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisites: PEKN 2P03 and 2P06; PEKN 2P00 or 3P00.

Note: field experience fee will be charged, consult Department.

### PEKN 4M90-4M99

#### Selected Issues in Physical Education

Selected issues in the student's selected field.

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors with a minimum of 13.0 overall credits, a minimum 70 percent major average, a minimum 60 percent non-major average and permission of the Department.

Note: students must obtain approval from a faculty member and the chair by June 1.

### PEKN 4P02

#### Functional Fitness Assessment and Exercise Prescription II

Advanced laboratory techniques of physical fitness appraisal, sport and population-specific assessment protocols, their theoretical basis and practical application.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 credits.

Prerequisites: PEKN 2P04, 2P97, 3P02 and 3P90.

### PEKN 4P06

#### Dance Performance

Creating and staging a dance performance in the theatre setting. Costuming and lighting, stage sets and props, media promotion.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide.

Prerequisite: PEKN 3P06 or permission of the instructor.

Note: students will be expected to pay the cost of a ticket to a dance performance on campus and a cost of the dance costumes for the performance.

### 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide.

Prerequisite: PEKN 2P90, 2P97 or permission of the instructor.

Completion of this course will replace previous assigned grade in PEKN 3P98.

### PEKN 4P10

#### Biomechanics II

Mechanics of human movement with applications to ergonomics, rehabilitation, sport and performing arts. Focus on two-dimensional kinetics and kinematics, with an introduction to three-dimensional analysis of movement.

*Lectures, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 3P10 or PHYS 1P91 and 1P93.

### PEKN 4P11

#### Sport Ethics

A 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/

BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

PEKN 4P12

**Fitness and Conditioning for Persons with Disabilities and Chronic Illnesses**

Design and application of movement education concepts and principles of strength training and conditioning applied to the development of exercise and activity programs.  
*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.  
Prerequisite: PEKN 2P92.

PEKN 4P13

**Aesthetics of the Body and Movement**

Aesthetic judgment and analysis as shaped by content, context and culture as perceived by the performer, creator and spectator in functional and expressive movement forms. Historical and contemporary issues.  
*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits or permission of the instructor.

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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.  
Prerequisites: PEKN 2P04 and 2P09.

PEKN 4P31

**Reflective Practicum in Physical Education**

Processes involved in becoming reflective practitioners emphasizing development of reflective awareness as a significant aspect of practitioner conduct.  
*Lectures, lab, field work, 3 hours per week.*  
Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/

BEd (Primary/Junior), BPhEd, 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 4P50

**Social History of Sport and Leisure in Canada**

Changes in leisure and sport in Canadian society. The emergence and role of sport and leisure from a historical, methodological and theoretical perspective. Relationships between leisure and sport and social, cultural, religious and political history.  
*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have with a minimum of 13.0 overall credits.  
Prerequisite: PEKN 1P93.

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.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide.  
Prerequisite: PEKN 3P70 or permission of the instructor.

PEKN 4P70

**Sociology of Physical Activity 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 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/BEd, BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 9.0 overall credits.  
Prerequisites: PEKN 2P04, 2P97 and 3P91.  
Note: performance in activity labs and fieldwork in applied setting is required.  
Completion of this course will replace previous assigned grade in PEKN 3P01.

PEKN 4P94

**Investigative Methods in Neurokinesiology**

Neurophysiological techniques in the generation and learning of human movement. Transcranial electrical stimulation, electrical stimulation of peripheral nerves, electromyography, stretch reflex and muscle methodology.  
*Lectures, lab, seminar 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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.

\* PEKN 4P95

**Women and Sport**

(also offered as WISE 4P95)  
Historical and current issues relating to women's participation in sport. Influence of

## PHYSICAL EDUCATION AND KINESIOLOGY

physiological, psychological and sociological factors on performance.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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 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 (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin and BSc (Kin) majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisite: PEKN 2P97.

### PEKN 4P98

#### **Electromyographic Kinesiology**

Biological aspects of human movement using sensorimotor evoked potentials. Relationship between muscle force and muscle electrical activity. Theory and technology of electromyography.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, BKin, BSc (Kin) and NEUR majors until date specified in Registration guide. Students must have a minimum of 13.0 overall credits.

Prerequisites: PEKN 2P09 or BIOL 2F01; PEKN 3P08 or MATH 1P98.

### PEKN 4P99

#### **Advanced Topics in Physical Education and Kinesiology**

Directed study in concentrated areas.

Restriction: open to BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd, 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

Shyamal K. Bose

## Professors Emeriti

John E. Black, Ramesh C. Shukla

## Professors

Shyamal K. Bose, Douglas H. Bruce, Bozidar Mitrovic, Fereidoon S. Razavi, Stuart M. Rothstein, Jan Vrbik

## Associate Professors

David A. Crandles, Henryk Fuks, Maureen Reedyk, Kirill Samokhin, Edward Sternin, Art van der Est

## Assistant Professor

Christopher R. Wiebe

## Adjunct Professor

Hanadi M. AbdelSalam,

## Senior Laboratory Instructor

Frank A. Benko

## Laboratory Demonstrator

Fulvio Boseglav

## Director Co-operative Programs

Cindy Dunne

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## General Information

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### Administrative Assistant

Fran Meffe

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 in 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, Earth Sciences, Mathematics or Great Books/Liberal Studies.

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 departments). Students should consult the Undergraduate Student Adviser of the Physics Department to plan the sequence of courses most suited to their background and needs.

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.

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## Program Notes

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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. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these three must be numbered 3(alpha)90 or above. In all fifteen credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- CHEM 1F92
- COSC 1P93
- MATH 1P01, 1P02 and 1P12
- one Humanities context credit or Social Science context credit

### Year 2

- PHYS 2P20, 2P31, 2P32, 2P50 and 2P51
- MATH 2F05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Science context credit not taken in year 1
- one-half elective credit

### Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- MATH 3P08 and 3P09
- one and one-half elective credits

### Year 4

- PHYS 4P51, 4P52, 4F90, 4P30, 4P41 and 4P70
- one of PHYS 3P20, 3P92, 3P93, 4P71
- one elective credit

## Physics Co-op (Honours only)

Students admitted to the Physics 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 1F92
- COSC 1P93
- MATH 1P01, 1P02 and 1P12
- one Humanities context credit or Social Science context credit

## PHYSICS

### Year 2

- PHYS 2P20, 2P31, 2P32, 2P50, and 2P51
- MATH 1P98
- MATH 2F05, or MATH 2P03 and 2P08
- SCIE 0N90
- the Humanities context credit or Social Science 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

### Spring/Summer Sessions:

- PHYS 4F90 and 4F91
- one-half elective credit

### Year 5

#### Fall Term:

- PHYS 3P92 or one-half elective credit
- PHYS 4P51 and 4P70
- PHYS 4P30 or 4P41
- one half elective credit

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### BSc with Major Program

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### Year 1

- PHYS 1P21 or 1P91 (recommended)
- one of PHYS 1P22, 1P23, 1P92 (recommended), 1P93
- CHEM 1F92
- COSC 1P93
- MATH 1P01, 1P02 and 1P12
- one Humanities context credit or Social Science context credit

### Year 2

- PHYS 2P20, 2P31, 2P50 and 2P51
- MATH 2F05, or MATH 2P03 and 2P08
- the Humanities context credit or Social Science context credit not taken in year 1
- one elective credit

### Year 3

- PHYS 3P35, 3P36, 3P41, 3P70 and 3P91
- MATH 3P08 and 3P09
- one and one-half elective credits

### Year 4

- PHYS 4P30, 4P41 and 4P70
- two PHYS credits numbered 2(*alpha*)00 or above
- one of PHYS 2P32, 3P20, 3P92, 3P93, 4P71
- one elective credit

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### Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Concurrent BSc/BEd

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The Department of Physics and the Faculty of Education co-operate in offering two Concurrent BSc (Honours)/BEd programs and a BSc Integrated (Pass)/BEd program. The Physics BSc (Honours)/BEd programs 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). The BSc Integrated (Pass)/BEd combines the BSc Integrated Pass program with the teacher education program for students interested in teaching at the Junior/Intermediate level (grades 4-10). Refer to the Education-Concurrent BSc (Honours)/BEd (Intermediate/Senior), Education-Concurrent BSc Integrated Studies (Honours)/BEd (Junior/Intermediate) or Education-Concurrent BSc Integrated Studies (Pass)/BEd (Junior/Intermediate) program listings for further information.

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### Combined Major Program

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### 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
- one Humanities context credit or one Social Science context credit

#### Year 2

- PHYS 2P20 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 Science context credit not taken in year 1

#### Year 3

- PHYS 2P31 and 2P51
- one of PHYS 3P20, 3P35, 3P70
- 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

- PHYS 4F90 and 4F91 or BIOL 4F90 and 4F91 or PHYS 4F90 and one elective credit or 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

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### Pass Program

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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, 1P02, 1P66, and 1P67
- one Social Science 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 3P20, 3P35, 3P36, 3P41, 3P70
- COSC 1P50, 2P13, 2P32, 2P90
- MATH 1P12
- one-half elective credit

Year 4

- Two credits from PHYS 4P51, 4P52, 4F90, 4P41, 4P70
- 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, 1P02, 1P12 and 1P40
- one Humanities context credit
- one Social Science 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 3P20, 3P35, 3P36, 3P41, 3P70
- MATH 2F40, 3P08 and 3P09
- one elective credit

Year 4

- PHYS 4P51 and 4P52

- one credit from PHYS 4P30, 4P41, 4P70
- PHYS 4F90 and 4F91 or MATH 3P04, 3P12 and one MATH credit numbered 3(alpha)90 or above
- one elective credit

Physics and Chemistry

Consult the Chemistry entry for a listing of program requirements.

Physics and Great Books/Liberal Studies (Honours only)

Consult the Great Books/Liberal Studies 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 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 1F00 or PHYS credits numbered 2(alpha)00 or above

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 1F00

Introduction to Astronomy

Topics include a description of the appearance of the night sky, the properties of the sun and stars and a discussion of the planets of the solar system, galaxies, history of astronomy and the properties of some unusual astronomical objects such as pulsars and black holes.

Lectures, 3 hours per week.

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 in PHYS 1F20, 1F25, 1F90 and 1P91.

PHYS 1P22

Electromagnetism, Optics and Modern Physics

Charges and fields, electric currents and circuits, optics and elements of modern physics.

Lectures, 3 hours per week; tutorial, 1 hour per week.

## PHYSICS

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 in PHYS 1F20, 1F25, 1F90 and 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. Electromagnetic waves and wave nature of light.

*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 in PHYS 1P10 and 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 in PHYS 1F20, 1F25, 1F90 and 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 in PHYS 1F20, 1F25, 1F90 and 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 in PHYS 1F20, 1F25, 1F90 and 1P23.

### PHYS 2P02

#### Introduction to Medical Physics

Physical and chemical interactions of ionizing radiations and their biological effects, structural imaging (eg 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 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 (one of PHYS 1F20, 1F25, 1F90); MATH 1P01 (1P93) and 1P02 (1P94).

### PHYS 2P31

#### Electronics I

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 of PHYS 1F20, 1F25, 1F90); 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

#### Electronics II

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.

*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: prior credit in PHYS 2P31 is recommended.

Completion of this course will replace previous assigned grade in PHYS 2P92.

### 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 (one of PHYS 1F20, 1F25, 1F90); 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 (one of PHYS 1F20, 1F25, 1F90); MATH 1P01 and 1P02.

### PHYS 3P20

#### 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.

### 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.

Completion of this course will replace previous assigned grade in PHYS 2P30.

### 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.

Completion of this course will replace previous assigned grade in PHYS 3P30.

### 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 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.

### 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 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 (3F94).

### 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 (3F94).

### 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.

Completion of this course will replace previous assigned grade in PHYS 4F50.

### 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.

Completion of this course will replace previous assigned grade in PHYS 4F50.

## PHYSICS

### 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 spacetime 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: PHYS 2P20 and 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.*

Completion of this course will replace previous assigned grade in PHYS 4P80.

## 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.

Restriction: open to PHYS Co-op students.

# Policing and Criminal Justice

*This program is offered through the Departments of Geography, Political Science, Psychology and Sociology*

## Co-ordinator

David DiBattista, Associate Dean, Faculty of Social Sciences

## General Information

### Assistant to the Dean

Carol-Ann Farinacci

905-688-5550, extension 323  
Scotia Bank Hall 410

3425

The Collaborative Study in Policing and Criminal Justice program involves courses offered through Brock University 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. Depending on the academic discipline the student chooses, the program leads to a 4-year BA with Major in Psychology or a BA (Honours) in Human Geography, Political Science or Sociology. The student also receives a diploma in Police Foundations from Niagara College. The program responds to the need for professionals who possess both a solid academic background and the applied skills and substantive knowledge needed in the areas of policing and criminal justice. This would ordinarily involve attending college after gaining a university degree, yet the Brock and Niagara program combines the two in a single integrated package.

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. Applicants must have a minimum 70 percent overall average to be considered for admission to the program and must have a maximum of 8.0 overall credits, at least 4.0 of which must have been earned at Brock. In addition, applicants must complete the GAT-B test (or other specified entrance test) and meet other admissions criteria at the level of acceptance determined by Niagara College in collaboration with the Niagara Regional Police Service. 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 concerning the Collaborative Studies in Policing and Criminal Justice program are available from the Office of the Dean of Social Sciences.

## Program Notes

1. Placement to be taken at a policing-related institution.
2. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

## Honours Program

### Human Geography

#### Year 1

- GEOG 1F90 and 1F91
- one of POLI 1F90, PSYC 1F90, SOCI 1F90
- POLI 1P50 or WRIT 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)
- POLI 1P50 or WRIT 1P94 (not taken in Year 1)
- one-half elective credit

#### Year 3

- taken at Niagara College

#### Year 4

- GEOG 4F99 (see program note 1)
- two GEOG credits numbered 3(alpha)90 or above from Group A or C (see Geography department)
- 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)

### Political Science

#### Year 1

- POLI 1F90 and 1P50
- PSYC 1F90 or SOCI 1F90
- WRIT 1P94
- one Humanities context credit
- one Science context credit

#### Year 2

- POLI 2F98 and 2P80
- one of POLI 2P91, 2P92, 2P93
- SOCI 2P61 and 2P62
- one POLI credit numbered 2(alpha)90 or above (POLI 3P11 recommended)
- one-half POLI credit numbered 2(alpha)90 or above from political theory list
- one-half elective credit

#### Year 3

- taken at Niagara College

#### Year 4

- POLI 3P91 or 3P92
- POLI 4P90
- POLI 4P50 or 4P52
- one POLI credit numbered 2(alpha)90 or above (POLI 3P18 and 3P65 strongly recommended)
- one-half POLI credit numbered 3(alpha)90 or above
- one POLI credit numbered 4(alpha)00 or above (POLI 4P01 and 4P19 strongly recommended)
- one elective credit

## Sociology

### Year 1

- SOCI 1F90
- POLI 1F90 or PSYC 1F90
- POLI 1P50
- WRIT 1P94
- one Humanities context credit
- one Science context credit

### Year 2

- SOCI 2P11, 2P12, 2P13, 2P33, 2P61 and 2P62
- one and one-half SOCI credits numbered 2(*alpha*)90 or above
- one-half elective credit

### 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

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## BA with Major Program

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## Psychology

### Year 1

- PSYC 1F90
- POLI 1F90 or SOCI 1F90
- POLI 1P50
- WRIT 1P94
- one Humanities context credit
- one Science context credit

### Year 2

- PSYC 2F23, 2F25 and 2F30
- one PSYC credit numbered 3(*alpha*)00 to 3(*alpha*)99
- one SOCI credit

### Year 3

- taken at Niagara College

### Year 4

- PSYC 3P30 and 4P92
- one and one-half PSYC credits numbered 3(*alpha*)00 to 3(*alpha*)99
- two and one-half PSYC credits numbered 3(*alpha*)90 to 4(*alpha*)99

# Political Science

## Chair

Garth Stevenson

## Undergraduate Program Adviser

Ingrid Makus

## Professors Emeriti

Carl Baar, Victor M. Fic, William H. N. Hull,  
William A. Matheson, J. Patrick Sewell

## Professors

Gerald E. Dirks (on leave), W. D. Kenneth  
Kernaghan, Daniel Madar, David T. Siegel,  
Garth Stevenson

## Associate Professors

Leah Bradshaw, Charles Burton, Terrance G.  
Carroll, Hevina Dashwood, Juris Dreifelds,  
Pierre Lizée, Ingrid Makus, William Mathie

## Assistant Professors

Paul Hamilton, Livianna Tossutti

## Lecturers

Jennifer Berardi

## Seminar Co-ordinator

Diane Leon

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## General Information

### Administrative Assistant

Christine Schacht

905-688-5550, extension 3476

Taro Hall 468

<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.

### Collaborative Study in Policing and Criminal Justice

The Collaborative Study in 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. Consult the Policing and Criminal Justice listing for further details. Enrolment is limited.

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### 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 Program Adviser, methods courses which are required in other departments 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.

## POLITICAL SCIENCE

4. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 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\*  
POLI 3P05, 3P12, 3P15, 3P16, 3P17, 3P18, 3P28, 3P72  
POLI 4P12, 4P14, 4P15, 4P19, 4P71, 4P75, 4V10-4V19, 4V60-4V69

#### Comparative Politics

POLI 2F30\*, 2P42, 2P47, 2P94, 2P95, 2P97, 2V40-2V49  
POLI 3P33, 3P43, 3P44, 3P45, 3P71, 3P72  
POLI 4P32, 4P34, 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, 3V00-3V09  
POLI 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P08, 4P70, 4V00-4V09

#### Public Administration

POLI 2F98\*, 2P62,  
POLI 3P11, 3P50, 3P52, 3P65, 3P67,  
POLI 4P50, 4P52, 4P54, 4P59, 4P74, 4P75, 4V50-4V59

\*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

#### Year 2

- POLI 2P80 (see program note 2)
- one of POLI 2P91, 2P92, 2P93
- two POLI credits numbered 2(alpha)00 to 2(alpha)99 (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 to 3(alpha)99 (see program note 1)
- two elective credits

#### Year 4

- POLI 4P90
- one POLI credit numbered 2(alpha)90 or above
- one and one-half POLI credits numbered 4(alpha)00 to 4(alpha)99
- two elective credits (see program note 2)

### Policing and Criminal Justice (Honours only)

Consult the Policing and Criminal Justice entry for a listing of program requirements.

### 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

#### Year 2

- POLI 0N90, 2F12, 2F98, 2P80, 3P65 and 3P67
- one of POLI 2P91, 2P92, 2P93
- one elective credit

#### Year 3

Fall Term:

- POLI 3P11 and 3P52
- 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, 4P52, 4P59, 4P90 and 4P54
- two and one-half elective credits

Spring/Summer Sessions:

- POLI 0N03

#### Year 5

Fall Term:

- POLI 4P74
- two 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
- five POLI credits numbered 2(alpha)00 or above (see program notes 1 and 4)
- one Humanities Context credit
- one Science Context credit
- six elective credits

### 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 Communication Studies, Popular Culture and Film, 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, Environment, Labour Studies, Great Books/Liberal Studies 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 additional credit from the political theory list
- one-half POLI credit
- four POLI credits numbered 2(*alpha*)90 or above (see program notes 1, 2 and 4)

#### Pass

- One POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 2P80
- one of POLI 2P91, 2P92, 2P93
- one POLI credit
- two POLI credits numbered 2(*alpha*)90 or above (see program notes 2 and 4)

#### 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 additional credit from political theory list

##### Year 3

- POLI 2F98
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- one and one-half credits from POLI 3P11, 3P15, 3P16, 3P18, 3P21, 3P26, 3P33, 3P52, 3P65, 3P66
- one elective credit (ECON 3P14, 3P15 recommended)

##### Year 4

- POLI 3P91 or 3P92
- POLI 4P54
- FNCE 3P93
- MGMT 3P82
- OBHR 3P42
- one and one-half credits from POLI 4P01, 4P14, 4P15, 4P21, 4P50, 4P52, 4V10-4V19
- one-half OBHR credit numbered 4(*alpha*)90 to 4(*alpha*)99
- one-half elective credit

#### Political Science and Labour Studies

Consult the Labour Studies entry for a listing of program requirements.

#### Political Science and Great Books/Liberal Studies (Honours only)

Consult the Great Books/Liberal Studies entry for a listing of program requirements.

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#### 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
- one-half additional POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99
- POLI 2F12 and 4P52
- POLI 2F98 or POLI 3P50 and 3P65
- one of POLI 4P50, 4P54, 4P59
- 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, 3P50, 3P52, 3P66, 4P01, 4P14, 4P19, 4P34, 4P50

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#### 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.

## POLITICAL SCIENCE

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, 4P01 and 4P14
- POLI 4P19 or 4P34
- one credit from POLI 1P91, 2F98, 3P11, 3P15, 3P66
- one and one-half credits from POLI 1P91, 2F98, 3P04, 3P07, 3P11, 3P15, 3P50, 3P52, 3P65, 3P66, 4P19, 4P20, 4P34, 4P50, 4P95
- one credit from ACTG 2P40, ENVI 3P02, LABR 2P03, 2P06, SOCI 2P61, 2P62, 3P33, 4P33 (see program note 3)

The words "Concentration in Public Law" will be added to a student's official transcript when the student graduates with a BA (Honours) in Political Science having completed the above listed requirements.

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### Master of Arts (MA) Program

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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.

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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 legacy of ideological and imperial divisions of the 20th-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

Greatest leaders and worst tyrants have been 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 2F98

**Public Administration**

(also offered as COMM 2F98 and LABR 2F98)

Political, legal and managerial dimensions of public administration. Topics include the structure and management of public organizations; government reform; political-bureaucratic relations; pressure groups; human resources and budgetary processes; the policy process; ethics and accountability.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99, COMM 1F90, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Completion of this course will replace previous assigned grade in POLI 3P50.

# 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 (1P91 and 1P92) or permission of the instructor.

Completion of this course will replace previous grade in LABR 2F00.

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.

Completion of this course will replace previous assigned grade in POLI 3P42.

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 2P62

**Government and Politics**

An introduction to government and politics intended for students in the second year of the BAcc and SPMA programs.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BAcc and SPMA majors with a minimum of 3.0 overall credits.

Completion of this course will replace previous assigned grade in POLI 1F90.

POLI 2P73

**Politics in Film**

Exploration of political themes and issues in selected films. Topics may include political aspects of justice and revenge; power and oppression; alienation and conformity; courage, loyalty and love.

*Lectures, seminar, lab, 4 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 GBLS 2P91)

Socratic origins of political philosophy as understood by Plato and Aristotle and their Christian, Jewish and Islamic successors. 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.

Completion of this course will replace previous assigned grade in POLI 2F90.

POLI 2P92

**Political Theory II**

Modern political philosophy in the writings of Hobbes, Locke, Rousseau, 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.

Completion of this course will replace previous assigned grade in POLI 2F90.

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.

Completion of this course will replace previous assigned grade in POLI 3P01.

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.

Completion of this course will replace previous assigned grade in POLI 3P41.

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 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.*

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POLI 3P02

### Politics and Civic Education

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 (1P91 and 1P92) 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. 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 relations, and the new constitution.

*Lectures, seminar, 3 hours per week.*

Prerequisite: POLI 2F30 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 3P50

**Canadian Public Administration**

(also offered as LABR 3P50)

Role of the public sector in the marketplace and the internal operation of government organizations emphasizing the comparison of public and business administration and government-business relations.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of one POLI credit numbered 1(alpha)90 to 1(alpha)99, POLI 2P62, MGMT 1P93 and 1P96 or permission of the instructor.

Completion of this course will replace previous assigned grade in POLI (COMM/ LABR) 2F98.

## 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 3P65

**Introduction to Public Policy**

(also offered as LABR 3P65)

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 or permission of the instructor.

## \* POLI 3P66

**Environmental Policy, Law and Administration**

(also offered as ENVI 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)

Topics may include criminal, environmental and reproductive policy, gay rights, privacy rights, and public health issues.

*Seminar, 3 hours per week.*

Restriction: open to Public Administration Co-op majors until date specified in the Registration guide.

Prerequisite: POLI 3P65.

## \* 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**

Statistical analysis of quantitative political data

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and the use of computers in political research. Topics include central tendency and dispersion, association and correlation, regression and analysis of variance, statistical significance and the SPSS computer analysis program.

*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 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 4F99

#### Honours Thesis

Individual study and research under faculty supervision.

Restriction: open to POLS (single or combined) majors with either minimum of 14.0 overall credits and a minimum 70 percent major average or 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 consult the Undergraduate Program Adviser about topics, regulations and a faculty adviser before registration.

### \* POLI 4P01

#### The Philosophy of Law

(also offered as GBLS 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) and GBLS (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 4P02

#### Ancient Political Theory

(also offered as GBLS 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) and GBLS (single and 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 4P03

#### Modern Political Theory

(also offered as GBLS 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) and GBLS (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 4P04

#### Politics and Tyranny

(also offered as GBLS 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) and GBLS (single and 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 4P05

#### Shakespeare's Politics

(also offered as GBLS 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) and GBLS (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).

### \* POLI 4P06

#### Philosophy, Politics and the Family

(also offered as GBLS 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.

### \* POLI 4P07

#### Postmodern Political Theory

(also offered as GBLS 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) and GBLS (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 4P08

#### Politics of Consent and Coercion

Exploration of important texts in the history of political thought that seeks to clarify the concepts of consent, obligation, coercion and their relationship to justice. Application of these concepts to contemporary debates about consent and the law, including sexual consent and medical ethics.

*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 4P12

#### Canadian Civil Society, Institutions and Political Culture

Membership bases of political parties, interest groups and non-governmental actors in the public sector and their role in policy development and/or the delivery of government programs.

*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**

Judicial power and legal processes throughout the world. Topics may include common law systems in such countries as Australia, England, India and Singapore; civil law systems in selected countries in Europe and Latin America; communist and post-Communist judicial systems in countries such as Cuba and Russia; evolution and change in legal systems.

*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

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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 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 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 2F98, 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 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 4P90

##### Honours Seminar

Analysis of selected contemporary issues in Canadian, comparative or 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 or approval to year 4 (honours).

Note: this course is required for POLS (single) Honours.

#### 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 GBLS 4V00-4V09)  
Particular writer, work or theoretical problem in political philosophy examined.

*Seminar, 3 hours per week.*

Restriction: open to POLS (single or combined) and GBLS (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 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 Communications,  
Popular Culture and Film

Chair  
Marian Bredin

Undergraduate Program Adviser  
Russell Johnston  
Jeanette Sloniowski (as of July 1, 2005)

Director, Co-operative Programs  
Cindy Dunne

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## General Information

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Administrative Assistant  
Bridget Cahill

905-688-5550, extension 4290  
Scotia Bank Hall 308  
<http://www.brocku.ca/cpcf/>

The Department of Communications, Popular Culture and Film offers three separate programs of study. 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, four-year Co-op programs leading to a BA Honours degree in Communications Studies or Popular Culture and a four and one-half year program leading to a BA Honours degree in Film Studies are available.

The study of Popular Culture focusses 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, radio and television, sport and the worldwide web.

The Popular Culture Co-op program combines academic and work terms over a four-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, Popular

Culture 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 Popular Culture 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 Popular Culture 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.

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## Program Note

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1. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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## Honours Program

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### Year 1

- COMM 1F90
- FILM 1F94
- one Science context credit
- one Social Science context credit
- one elective credit

### Year 2

- PCUL 2P15, 2P20, 2P21 and 2P30
- one credit from PCUL or ENGL 2P10, 2P11, WISE 2P97
- two elective credits

### Year 3

- PCUL 3P14, 3P15, 3P20, 3P21, 3P72 and 3P96
- one PCUL credit numbered 2(alpha)90 or above
- one elective credit

### Year 4

- PCUL 4P17, 4P30, 4P31 and 4P40
- two PCUL credits numbered 3(alpha)90 or above
- one elective credit

## Popular Culture 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

- COMM 1F90
- FILM 1F94
- one Social Science context credit
- one Science context credit
- one elective credit (MGMT 1P51 and 1P52 strongly recommended)

### Spring/Summer Sessions:

- PCUL 2P20 and 2P21
- one elective credit

### Year 2

- PCUL 0N90, 2P15, 2P30, 3P14, 3P15, 3P20 and 3P21
- two credits from PCUL or ENGL 2P10, 2P11, FILM 3P95, 3P97, 3P98, WISE 2P97

### Spring/Summer Sessions:

- PCUL 0N01

### Year 3

#### Fall Term:

- PCUL 4P30
- one credit from PCUL 3P72, 3P96, 4P17, 4P40
- one PCUL credit numbered 3(alpha)90 and above

#### Winter Term:

- PCUL 0N02

#### Spring/Summer Sessions:

- Three elective credits

### Year 4

#### Fall Term:

- PCUL 0N03

#### Winter Term:

- PCUL 4P31
- One credit from PCUL 3P72, 3P96, 4P17, 4P40
- one PCUL credit numbered 3(alpha)90 and above

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**Pass Program**


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Satisfactory completion of the first three years of the Honours program entitles students to apply for a Pass degree.

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**Combined Major Program**


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**Honours**


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Year 1 is now closed

- PCUL 2P20, 2P21, 2P94, 3P20, 3P21, 3P96, 4P30 and 4P31
- two credits from PCUL or COMM 2F50, ENGL 2P10, 2P11, FILM 3P56, 3P93, 3P95, 3P97, 3P98, WISE 2P97

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**Pass**


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Year 1 is now closed

- PCUL 2P20, 2P21, 2P94, 3P20, 3P21 and 3P96
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**Minor in Professional Writing**


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With the exception of students in the Co-op stream, it is possible for Popular Culture majors to earn a Minor in Professional Writing. For details see the calendar entry for the Department of English Language and Literature.

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**Description of Courses**


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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

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**Prerequisites and Restrictions**


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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.

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**# 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.*

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**\* PCUL 2F92**
**Popular Narrative**

(also offered as COMM 2F92 and ENGL 2F92)

Archetypal and mythic dimensions of popular literary genres such as the detective novel, Gothic fiction, science fiction, the romance novel; comparison and contrast with other media.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of COMM 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99, FILM 1F94 or permission of the instructor.

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**# 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 (single or combined), ENVI and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: COMM 1F90, GEOG 1F90 or permission of the instructor.

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**# PCUL 2P15**
**Communications Research Methods**

(also offered as COMM 2P15)

Introduction to qualitative and quantitative methods for communications and popular culture research.

*Lectures, lab, 3 hours per week.*

Restriction: open to PCUL (single or combined) and COMM (single and combined) majors until date specified in Registration guide.

Prerequisite: COMM 1F90 or permission of the instructor.

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**\* PCUL 2P20**
**Theories of Popular Culture**

(also offered as COMM 2P20 and FILM 2P20)

Historical, theoretical and critical approaches to various forms of popular culture (film, music, television, literature, periodicals and advertising).

*Lectures, seminar, lab, 4 hours per week.*

Restriction: open to PCUL (single or combined), FILM (single or combined) and COMM (single or combined) majors until date specified in Registration guide.

Prerequisite: one of CANA 1F91, COMM 1F90, FILM 1F94 or permission of the instructor.

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**\* 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 (single or combined), FILM (single or combined) and COMM (single or combined) majors until date specified in Registration guide.

Prerequisite: PCUL 2P20 or permission of the instructor.

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**# 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 (single or combined), COMM (single or combined) and SPMA majors with a minimum of 5.0 overall credits or permission of the instructor.

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**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: COMM 1F90 and FILM 1F94.

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**# PCUL 2P56**
**Canadian Cinema**

(also offered as COMM 2P56 and FILM 2P56)

Critical and historical study of Canadian cinema.

## POPULAR CULTURE

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: COMM 1F90, FILM 1F94 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM (COMM) 2F97.

# 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: 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 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.

# 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 (1P91 and 1P92) or permission of the instructor.

Completion of this course will replace previous assigned grade in LABR 3F00.

# PCUL 3P14

### Media Industries

(also offered as COMM 3P14 and SOCI 3P14)

Media industries emphasizing Canadian media economics and public policy.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PCUL (single and combined), COMM (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 (single or combined) and COMM (single or combined) majors with a minimum of 8.0 overall credits.

Prerequisite: PCUL 2P15.

Completion of this course will replace previous assigned grade in PCUL (COMM/SOCI) 3P16.

# 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 (single or combined), FILM (single or combined), COMM (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: one of PCUL 2P20 and 2P21, 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 (single or combined), FILM (single or combined), COMM (single or combined) and STAC majors with a minimum of 9.0 overall credits.

Prerequisite: PCUL 3P20 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 focussing 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 and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisite: one of PCUL 2P06, COMM 1F90, GEOG 2P01, 2P02 or permission of the instructor.

\* PCUL 3P72

### Popular Music and Society

(also offered as COMM 3P72, MUSI 3P72, and SOCI 3P72)

Critical approaches to popular music in its social, cultural, political, and economic contexts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PCUL (single or combined), COMM (single or combined), MUSI (single or combined) and SOCI (single or combined) majors with a minimum of 8.0 overall credits or permission of the instructor.

Completion of this course will replace previous assigned grade in PCUL (COMM/MUSI/POLI) 2P70 and PCUL (COMM/MUSI) 3P70.

# PCUL 3P92

### Technology and Culture

(also offered as COMM 3P92)

Exploration of mutually productive relationships among cultural practices and technologies, using historical and contemporary examples.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: PCUL 2P20, 2P21 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 and Television Genres**

(also offered as COMM 3P94 and FILM 3P94)  
Genre theory and its application to popular film and television. Topics may include the western, situation comedy, docudrama, film noir or melodrama.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: PCUL 2P20 and 2P21.

## \* 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 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 (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 Undergraduate Program Adviser.

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 4P04

**Advanced Studies in Film and Television Genres**

(also offered as FILM 4P04)

Advanced theoretical and methodological approaches to popular film and television genres.

*Lectures, lab, seminar, 4 hours per week.*

Restriction: open to PCUL (single or combined) and FILM (single or combined) majors with approval to year 4 (honours) and permission of the Department.

Prerequisite: PCUL 3P94.

## 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 (single or combined) majors with approval to year 4 (honours) and permission of the Department.  
Prerequisite: PCUL 3P96.

## \* PCUL 4P17

**Canadian Cultural and Communications Policy**

(also offered as COMM 4P17)

Historical perspectives on the development of government policies affecting the arts, cultural industries, public and private broadcasting in Canada.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PCUL (single or combined) and COMM (single or combined) 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 (single or combined), COMM (single or combined) and SOCI (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

Prerequisite: PCUL 3P14 or 3P15 (3P16).

## # 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, lab, seminar, 4 hours per week.*

Restriction: open to PCUL (single or combined), COMM (single or combined) and FILM (single or combined) majors with 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, lab, seminar, 4 hours per week.*

Restriction: open to PCUL (single or combined), COMM (single or combined) and FILM (single or combined) with approval to year 4 (honours) or permission of the instructor.

## PCUL 4P40

**Popular Culture and Local Identity**

Theoretical and methodological approaches to analysis of "the local" in popular culture, with particular reference to popular culture in the Niagara region.

*Seminar, 3 hours per week.*

Restriction: open to PCUL (single or combined) 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 (single or combined) and COMM (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 (single or combined) 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: students are responsible for arranging their course with a faculty member, in consultation with the Undergraduate Program 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

**Research in Popular Culture Studies**

*Seminar, 3 hours per week.*

Restriction: open to PCUL (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

**CO-OP COURSES**

PCUL 0N01

**Co-op Work Placement I**

First co-op work placement (4 months) with an approved employer.

Restriction: open to PCUL Co-op students.

PCUL 0N02

**Co-op Work Placement II**

Second co-op work placement (4 months) with an approved employer.

Restriction: open to PCUL Co-op students.

PCUL 0N03

**Co-op Work Placement III**

Third co-op work placement (4 months) with an approved employer.

Restriction: open to PCUL Co-op students.

PCUL 0N04

**Co-op Work Placement IV**

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to PCUL Co-op students.

PCUL 0N05

**Co-op Work Placement V**

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to PCUL Co-op students.

PCUL 0N90

**Co-op Training and Development**

Provides a 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 PCUL Co-op students.

# Psychology

## Chair

Dawn Good

## Undergraduate Program Officer

Kathryn Belicki

## Professors Emeriti

Jack Adams-Webber, John J. Lavery, Edward W. G. Pomeroy, Joan Preston

## Professors

Kathryn Belicki, John G. Benjafield (on leave), Stefan M. Brudzynski, David DiBattista, Ivo Duentzsch, Jane Dywan, Harry T. Hunt, John Mitterer, Robert D. Ogilvie (on leave), Linda Rose-Krasnor, Stanley W. Sadava, Sidney J. Segalowitz, Paul D. Tyson, Teena Willoughby

## Associate Professors

Karen Arnell, Michael Ashton, Anthony F. Bogaert, Kimberly Cote, Nancy DeCourville, Dawn E. Good, Carolyn Hafer, Darla MacLean, Cheryl McCormick, Peter Ramm (on leave)

## Assistant Professors

H. Willard Bradley, Andrew V. Dane, Gordon Hodson, Tanya Martini, Cathy Mondloch, Cameron Muir

## Adjunct Professors

Michael Alexander, Sherrie Bieman-Copland, Nancy Johnston, Wanda Malcolm, Don McCreary, Carlyle Smith, Barry Willer

## Lecturer

Tim Murphy

## Co-ordinator

Jo Stewart

## General Information

### Administrative Assistants

Joanne Boekestyn, Linda Pidduck

905-688-5550, extensions 3542, 3543

Mackenzie Chown B326

<http://www.psyb.brocku.ca/>

The Department of Psychology offers four-year programs of study leading to a BA (Honours) in Psychology, a BA with a Major in

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 a 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 recommended that Honours students acquire some background in other disciplines as part of their undergraduate program. Students wishing to pursue a four-year degree (Honours and 4 Year BA with a Major) must be admitted to year 4 after completing 13.5 credits. Applications are available in the Office of the Registrar and on-line at [www.brocku.ca/registrar/forms/index.html](http://www.brocku.ca/registrar/forms/index.html). See the Psychology Major's Manual at [www.psyb.brocku.ca/undergrad/MAJORMANUAL.html](http://www.psyb.brocku.ca/undergrad/MAJORMANUAL.html) for more information.

### Psychology Co-op Program (Honours and 4 Year BA with a 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 a Major) and who have successfully completed a minimum of twelve months of Co-op work experience.

### Collaborative Study in Policing and Criminal Justice

The Collaborative Study in 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 either Human Geography, Psychology, Political Science or Sociology. For students majoring in Psychology, this four-year program leads to a BA with Major in Psychology 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 newould 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 Collaborative Studies in Policing and Criminal Justice listing for further details. Enrolment is limited.

### Program Notes

1. Honours and BA with a Major students with a single major must select Psychology credits from at least three different content areas (see listings below). Honours students with a combined major must select Psychology credits from at least two different content areas (see listings below). Students intending to pursue graduate studies in Psychology are encouraged to select from more than three content areas. Honours students intending to pursue graduate studies in Psychology are also advised to take PSYC 3F40.

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2. Students enrolled in PSYC 4F91 are encouraged to enroll concurrently in PSYC 4P94.

3. Admission to year 4 (Honours) is by application through the Department and requires a minimum 75 percent major average and a minimum 70 percent overall average.

4. If a student has completed PSYC 3F40 and wishes to complete a BA with a Major, PSYC 3P30 will not be required.

5. In all 20-credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15-credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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### Content Areas

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#### *Applied, Clinical and Health Psychology*

PSYC 3F20, 3P34, 3P36, 3P51, 3P75

PSYC 4F31, 4F50, 4P21, 4P45, 4V80-4V82

#### *Cognition*

PSYC 2F20, 2F50

PSYC 3P54, 3P55, 3P60, 3Q91

PSYC 4P22, 4P29, 4P47, 4V83-4V85

#### *Neuropsychology, Physiological, and Comparative Psychology*

PSYC 2F36, 2F45, 2F50

PSYC 3F81, 3P45, 3P59, 3P67, 3P68, 3P72

PSYC 4P29, 4P38, 4P55, 4P56, 4P63, 4V86-4V88

#### *Development*

PSYC 2F12

PSYC 3P11, 3P18, 3P19, 3P23, 3P60, 3P61, 3P74, 3P77, 3Q33

PSYC 4P27, 4P35, 4P38, 4P41, 4P56, 4V89-4V91

#### *Methodology*

PSYC 2F23

PSYC 3F40, 3P30, 3P39

PSYC 4F90, 4F91, 4P94, 4V92-4V94

#### *Personality and Social Psychology*

PSYC 2F25, 2F30

PSYC 3F07, 3P33, 3P36, 3P57, 3P58, 3P80, 3Q90, 3Q95, 3Q96

PSYC 4P25, 4P44, 4V95-4V97

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### Honours Program

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#### *Year 1*

•PSYC 1F90

•one Humanities context credit

•one Science context credit

•two elective credits

#### *Year 2*

•PSYC 2F23

•three credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50

•one elective credit

#### *Year 3*

•PSYC 3P39

•two and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99, including either PSYC 3F40 or 3P30 (see program note 1)

•two elective credits

#### *Year 4*

•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

### Psychology Co-op Empirical Thesis stream (Honours only)

#### *Year 1*

•PSYC 1F90

•one Humanities context credit

•one Science context credit

•two elective credits

#### *Year 2*

•PSYC 0N90 and 2F23

•three credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50

•one elective credit

#### *Year 3 Fall Term, Year 4 Winter Term and Year 5:*

•PSYC 3P39, 3P41, 3P42, 4F91, 4P92 and 4P93 (see program note 2)

•one and one-half PSYC credits numbered 3(alpha)00 or above

•one PSYC credit numbered 3(alpha)90 or above

•four elective credits

#### *Year 3*

Winter Term:

•PSYC 0N01

Spring/Summer Sessions:

•PSYC 0N02

#### *Year 4*

Fall Term:

•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

#### *Year 2*

•PSYC 0N90 and 2F23

•three credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50

•one elective credit

#### *Year 3 Fall term, Year 4 Winter Term and Year 5:*

•PSYC 3P39, 3P30, 4F90, 4P92 and 4P93

•two PSYC credits numbered 3(alpha)00 or above

•one PSYC credit numbered 3(alpha)90 or above

•four elective credits

#### *Year 3*

Winter Term:

•PSYC 0N01

Spring/Summer Sessions:

•PSYC 0N02

#### *Year 4*

Fall Term:

•PSYC 0N03

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### BA with Major Program

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#### *Year 1*

•PSYC 1F90

•one Humanities context credit

•one Science context credit

•two elective credits

#### *Year 2*

•PSYC 2F23

•three credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50

•one elective credit



*Year 3*

- PSYC 3P30
- two and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99 (see program note 1)
- two elective credits

*Year 4*

- Three PSYC credits numbered 3(alpha)90 to 4(alpha)99 (PSYC 4P92 is recommended; see program note 1)
- two elective credits

**BA with Major Co-op**

*Year 1*

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits

*Year 2*

- PSYC 0N90 and 2F23
- three credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50
- one elective credit

*Year 3 Fall term, Year 4 Winter term and Year 5*

- PSYC 3P30
- three PSYC credits numbered 3(alpha)00 or above (PSYC 4P92 is recommended)
- two and one-half PSYC credits numbered 3(alpha)90 or above
- four elective credits

*Year 3*

Winter Term:

- PSYC 0N01

Spring/Summer Sessions:

- PSYC 0N02

*Year 4*

Fall Term:

- PSYC 0N03

**Policing and Criminal Justice**

Consult the Policing and Criminal Justice entry for a listing of program requirements.

**Pass Program**

*Year 1*

- PSYC 1F90
- one Humanities context credit
- one Science context credit
- two elective credits

*Year 2*

- PSYC 2F23
- two PSYC credits numbered 2(alpha)00 to 2(alpha)99
- two elective credits

*Year 3*

- Three PSYC credits numbered 3(alpha)00 to 3(alpha)99
- two elective credits

**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. It should be noted that not all departments provide a combined major option. All combined major students should consult with the Co-ordinator to avoid duplication of courses.

**Honours**

- PSYC 1F90, 2F23, 3P39 and 4P92
  - two credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50
  - one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99 including either PSYC 3F40 or 3P30
  - one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
- In addition students must complete one of PSYC 4F90, 4F91, or an Honours thesis in the second discipline.

**BA with Major**

- PSYC 1F90, 2F23 and 3P30
- two credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45, 2F50
- one and one-half PSYC credits numbered 3(alpha)00 to 3(alpha)99
- two 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 Biology**

Consult the Biological Sciences entry for a listing of program requirements.

**Psychology and Child and Youth Studies**

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

**Graduate (MA, PhD) Programs**

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.

## PSYCHOLOGY

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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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 2F12

##### Lifespan Development

Introduction to the conceptual bases of life span development, a survey of relevant research, and an overview of methodological issues. Topics illustrating lifespan developmental research and theory will be drawn from the following areas: intellectual, moral, personality, physiological, sexual, emotional, and social development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC and LING majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students may not register concurrently in CHYS 2F10. Students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade in CHYS 2F10.

#### PSYC 2F20

##### Cognition

Acquisition and utilization of knowledge. Topics include information processing, attention and memory, concepts, imagery,

problem solving and reasoning, judgment and decision making, language and thought.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide.

Contact the Psychology Department.

#### 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: Grade 12U Mathematics of Data Management or equivalent background recommended.

#### PSYC 2F25\*

##### Introduction to Personality

Introduction to personality measurement, theory, and research. Personality structure and the causes and functions of personality variation. Current topics in personality research.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide.

Contact the Psychology Department.

#### PSYC 2F30

##### Introduction to Social Psychology

Theories, methods, research and issues of contemporary social psychology. Topics include social perception and cognition, the self, attitudes, influence, attraction, aggression, altruism, communication, conflict, group and collective behaviour; the psychological study of social issues including prejudice, law, environment and health.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), COMM (single or combined), CHSC and HLSC majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide.

Contact the Psychology Department.

#### \* PSYC 2F36

##### Physiological Psychology

(also offered as NEUR 2F36)

Biological aspects of behaviour; functional activities of the brain from the neuron through to the interrelationships among neural systems. Topics include drugs and behaviour, sensorial and motivational systems, emotion and stress, learning and memory, language and psychiatric disorders.

*Lectures, 2 hours per week; lab, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, KINS, and NEUR majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide.

Contact the Psychology Department.

#### PSYC 2F45

##### Learning

Presentation of variables and/or conditions which contribute to the learning process including a survey of the basic experimental findings and theoretical issues related to learning emphasizing learning in nonhuman animals.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide.

Contact the Psychology Department.

#### PSYC 2F50

##### Perception

Theoretical issues, problems and actual mechanisms of seeing, hearing and other senses. Basic problems of pattern recognition, memory and attention; influence of culture, motivation, personality and pathology on perception.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC and NEUR majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide.

Contact the Psychology Department.

Completion of this course will replace previous assigned grade in PSYC 2F91.

#### PSYC 3F07

##### Experiential Psychology

Subjective experience (states of consciousness) and methods as an alternate way of "doing"

psychology. Phenomena of dreams, psychedelic drugs, hypnosis, schizophrenia, religious mysticism and eastern meditative traditions. Conceptual frameworks from introspective and phenomenological traditions of psychology, social science and psychiatry, as well as holistic constructivist approaches to cognition and the nature of consciousness.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade in PSYC 2F97, 2P96 and 2P97.

**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 until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

**PSYC 3F40**

**Psychological Research**

Research methods in several areas of psychology emphasizing developing 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.

Prerequisite: PSYC 2F23.

Co-requisite: PSYC 3P39 (must be taken in the Fall session).

Completion of this course will replace previous assigned grade 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 and NEUR 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 2F36 or permission of the instructor.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3F91.

# 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 BA (Pass)/BEd, and CHYS (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 2F12 or CHYS 2F10.

PSYC 3P18

**Adolescent Development**

Theories and methods of life span development as they apply to the special issues that emerge during adolescence. Topics include thinking processes, identity formation, physiological change, sexuality and sex roles, family and peer relationships, schooling, vocational choices and moral development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC and HLSC 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 2F12 or CHYS 2F10.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

PSYC 3P19

**Psychology of Aging**

Theories and methods of life span 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 and NEUR 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.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P94.

\* PSYC 3P23

**Psychology of Parenting**

(also offered as CHYS 3P23)

Determinants, varieties and consequences of parenting. Focus 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) 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 2F12 or CHYS 2F10.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

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) and NEUR majors with either a minimum of 8.0 overall credits or 3.0 PSYC

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credits above PSYC 1F90 and permission of the Department.

Prerequisite: PSYC 2F23.

Note: students minoring in Psychology may register. Contact the Psychology Department. Completion of this course will replace previous assigned grade 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) and COMM (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 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### PSYC 3P34

#### **Psychology of Human Sexuality**

Introduction to the psychological study of human sexuality. Biopsychosocial approaches are applied to different issues in human sexuality, including sexual differentiation, gender identity and sexual orientation, attraction and love, patterns of sexual behaviour, sexual dysfunctions, sex differences in sexual behaviour, erotica and pornography, sexual coercion and paraphilias, and sexual physiology.

*Lectures, seminar, 3 hours per week.*

Restriction: open to 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 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department. Completion of this course will replace previous assigned grade in CHSC 2P50.

### PSYC 3P36

#### **Applied Social Psychology**

Theories, research and practice of social psychology as applied to specific areas of personal and social concern, including physical and mental health, law, commerce, environment, communication and gerontology. Methods of conducting applied research, assessing public opinion and evaluating program efficacy. Consideration of Lewin's proposition that "there is nothing so practical as a good theory".

*Lectures, seminar, 3 hours per week.*

Restriction: open to 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.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### PSYC 3P39

#### **Computer Data Analysis**

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. Prerequisite: PSYC 2F23.

Note: not open to students with credit in PSYC 3F40 prior to 1999.

### 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.

Prerequisite: PSYC 2F23.

Co-requisite: PSYC 3P39.

Completion of this course will replace previous assigned credit 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) and NEUR 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.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department. Completion of this course will replace previous assigned grade in PSYC 3F45.

### 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: permission of the Department. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above 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: permission of the Department. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

### PSYC 3P51

#### **Health Psychology**

Psychological aspects of health and illness. Prevention and treatment of illness and the maintenance of wellness. Behavioural and social factors that play a role in the etiology of health and illness.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC and HLSC majors until date specified in Registration guide.

Prerequisite: PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade in PSYC 2P91.

## 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 until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

## 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 until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

## 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 until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

## \* PSYC 3P57

**Psychology of Women**

(also offered as WISE 3P57)

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.*

Restriction: open to PSYC (single or combined) and WISE (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 1F90.

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department. Completion of this course will replace previous assigned credit in PSYC (WISE) 2P93 and 3R90.

## 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 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: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned grade in PSYC 2P94 and 3R91.

## \* PSYC 3P59

**Introduction to Human Neuropsychology**

(also offered as NEUR 3P59)

Relation between brain function and behaviour examined through clinical syndromes and experimental strategies. Topics include disorders of attention, memory, language, emotion and problem solving.

*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 8.0 overall credits and 1.0 PSYC credit above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P98.

## PSYC 3P60

**Cognitive Development**

Theory and research pertaining to intellectual development. Topics include the development of perception, memory, thinking and language.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits and 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 2F12 or CHYS 2F10.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

## # 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, LING 1F91 or permission of the instructor.

Completion of this course will replace previous assigned grade in PSYC (CHYS/LING) 2P98.

## \* 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, cholinergic, serotonergic).

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC and NEUR majors

## PSYCHOLOGY

until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90. Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department. Completion of this course will replace previous assigned credit in PSYC (NEUR) 3P97.

### 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, lab, 4 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 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### PSYC 3P72

#### **Drugs and Behaviour**

Basic principles of the kinetics of drugs and drug action, tolerance and drug interactions. Effects of psychoactive drugs on behaviour and experience. Focus on recreational drugs and the use of psychoactive medications in psychiatry.

*Lectures, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC and NEUR 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. Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P92.

### # 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 BA (Pass)/BEd and CHYS (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: one of MATH 1F92, PSYC 2F23, SOCI 2P11 and 2P13 (for CHYS/SOCI combined majors; may be taken concurrently), 1.0 COSC or MATH credit.

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 until date specified in Registration guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P95.

### \* 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 BA (Pass)/BEd and CHYS (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 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 in CHYS 3P24 and PSYC (CHYS) 3Q94.

### \* 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) and COMM (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.

Note: PSYC 2F30 recommended. Students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

### # 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 BA (Pass)/BEd and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PSYC 2F12, CHYS 2F10 or permission of the instructor.

Completion of this course will replace previous assigned grade in PSYC (CHYS) 3Q93.

### \* 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 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) and PHIL (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 1F90.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

# PSYC 3Q91  
**Second Language Acquisition and Learning**  
 (also offered as LING 3Q91)  
 Theories of second- or 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.*  
 Prerequisite: LING 1F74 or permission of the instructor.

\* 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; 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) and PHIL (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 1F90.  
 Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

\* 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) and PHIL (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 1F90.  
 Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

\* PSYC 4F31  
**Treatment Approaches for Children and Adolescents**  
 (also offered as CHYS 4F31)  
 Theoretical background, research and evaluation of current therapeutic approaches. Disorders include conduct disorders, emotional distress, anxiety states, autism, family dysfunction; dynamic therapies (therapeutic play, Gestalt approaches, counselling techniques, expressive work); behavioural theory and techniques, including social skills training, cognitive work and relaxation.  
*Lectures, seminar, 3 hours per week.*  
 Restriction: open to PSYC (single or combined) and CHYS (single or combined) majors until the date specified in the Registration guide. Students must have a minimum 13.5 overall credits.  
 Prerequisite: PSYC 2F12 or PSYC 2F10.  
 Note: students will participate in a practicum placement.  
 Completion of this course will replace previous assigned grade in PSYC (CHYS) 4P31 and 4P32.

PSYC 4F50  
**Introduction to Clinical Psychology**  
 Issues in assessment techniques, major theories of psychotherapy and research findings concerning treatment strategies for specific disorders.  
*Lectures, seminar, 3 hours per week.*  
 Restriction: open to PSYC (single or combined) majors until the date specified in the Registration guide. Students must have a minimum 13.5 overall credits.

PSYC 4F90  
**Literature Review Thesis**  
 Review of the research and theory in a focused area or problem 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.  
 Prerequisites: PSYC 3P30 and 3P39.  
 Note: topics may be selected from a list assigned by the course co-ordinator or chosen in consultation with a faculty supervisor.  
 Completion of this course will replace previous assigned grade in PSYC 4F92.

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) and permission of the Department.  
 Prerequisites: PSYC 3F40 or PSYC 3P41 and 3P42; PSYC 3P39.

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 4P21  
**Psychology of Addictive Behaviour**  
 Theory and research on substance use. Focus on psychopharmacological, cognitive, psychodynamic and social psychological models and on longitudinal research. Implications for treatment and prevention.  
*Lectures, seminar, 3 hours per week.*  
 Restriction: open to PSYC (single or combined), CHSC, HLSC and NEUR majors with a minimum of 13.5 overall credits.  
 Prerequisite: PSYC 3P92.

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, medical and legal contexts as revealed through such topics as: 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) and NEUR majors with a minimum of 13.5 overall credits.

PSYC 4P25  
**Personality Assessment and Research**  
 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.*

## PSYCHOLOGY

Restriction: open to 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.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previously assigned grade in PSYC 3F97.

### PSYC 4P27

#### Psychology of the Exceptional Child

Overview of theory and research related to the assessment, diagnosis, and treatment of childhood and adolescent disorders (conduct disorder, ADHD, autism and depression).

*Lectures, seminar, 3 hours per week.*

Restriction: open to 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 2F12, CHYS 2F10 or permission of the instructor.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P27.

### PSYC 4P29

#### Cognitive Neuropsychology

Theories and research methods in cognitive neuropsychology, focussing on the investigation of brain models of information processing.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC and NEUR 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 3P59 (3P98) or permission of the instructor.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P99.

### PSYC 4P35

#### 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 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 2F12 or CHYS 2F10; 1.0 third-year Developmental Psychology credit (see Content Areas).

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P93.

### 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 3P19 (3P94).

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 PSYC (single or combined) and CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of CHYS 3P09, 3P11, 3P12, 3P23, 3P24, 3P65, 3P74, 3Q33, PSYC 3P18.

### PSYC 4P44

#### Social Psychology of Justice

Social psychological research and theories that address how people think about, define, and respond to justice and injustice. Exploration of the application of social psychology to the legal system with regard to eyewitness testimony,

jury decision making and dispute resolution.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with a minimum 13.5 overall credits.

### 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 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.

### PSYC 4P47

#### Contemporary Approaches to Consciousness

(also offered as PHIL 4P47)

Cognitive, philosophical, neuropsychological, physical and phenomenological perspectives on consciousness will be explored, including the work of James, Sperry, Gibson, Penrose, Wittgenstein, Husserl and Heidegger, and research on metaphor and self-organizing natural systems.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and PHIL (single or combined) majors with approval to year 4 (honours).

### 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 2F36.

### \* PSYC 4P56

#### Maturation and Development

(also offered as CHYS 4P56)

Influences of brain physiology and maturation on psychological development and vice versa;



the role of heredity in understanding human development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHYS BA (Pass)/BEd, CHYS (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: one of PSYC one of 2F12, 2F36, CHYS 2F10.

Completion of this course will replace previous assigned grade in PSYC (CHYS) 3P56.

**PSYC 4P63**

**Human Psychophysiology**

Concepts related to acquisition and analysis of bioelectrical signals recorded from the brain, papillary system, skeletomuscular 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, lab, 4 hours per week.*

Restriction: open to PSYC (single or combined), and NEUR majors 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.

Note: students minoring in Psychology may register prior to date in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in PSYC 3P96.

**PSYC 4P92**

**History of Psychology**

Historical development of the multiple orientations within psychology. Topics include philosophical and physiological influences in psychology, intro-spectionism; functionalism, behaviourism, Gestalt theory, psychoanalysis, humanistic and developmental.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4.

Prerequisite: one of PSYC 3F40, 3P30, PSYC 3P41 and 3P42.

**PSYC 4P93**

**Honours Seminar**

Survey of issues in various areas of Psychology.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

**PSYC 4P94**

**Thesis Seminar**

Empirical research thesis students undertake a study of general research issues and research relevant to the topic of their honours thesis.

*Seminar, 1.5 hours per week over two terms.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours) and permission of the Department. Co-requisite: PSYC 4F91.

**PSYC 4V80-4V82**

**Special Topics in Applied, Clinical and Health Psychology**

Structure and content of course varies.

*3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

**PSYC 4V83-4V85**

**Special Topics in Cognition**

Structure and content of course varies.

*3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

**\* PSYC 4V86-4V88**

**Special Topics in Neuropsychology, Physiological, and Comparative Psychology**  
(also offered as NEUR 4V86-4V88)

Structure and content of course varies.

*3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

**\* PSYC 4V86**

**Selected Topics in Sleep Research**

(also offered as NEUR 4V86)

Topics may include sleep need, sleep deprivation, and the role of sleep in learning and memory.

*Seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

**PSYC 4V89-4V91**

**Special Topics in Development**

Structure and content of course varies.

*3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

**PSYC 4V92-4V94**

**Special Topics in Methodology**

Structure and content of course varies.

*3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

**PSYC 4V95-4V97**

**Special Topics in Personality and Social Psychology**

Structure and content of course varies.

*3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

Note: a description of upcoming course offering(s) will be posted by April in the Department and in the Psychology Major's Manual.

**PSYC 4V96**

**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 with approval to year 4 (honours).

Prerequisite: PSYC 2F30.

## PSYCHOLOGY

### 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.

# Recreation and Leisure Studies

## Chair

Colleen Hood

## Professors

David A. Fennell, Peggy Hutchison

## Associate Professors

Ann Marie Guilmette, Atsuko Hashimoto, Colleen Hood, Suzie Lane, George S. Nogradi, Shalini Singh, David J. Telfer, John K. Yardley

## Assistant Professors

Martha Barnes, Scott Forrester, Ryan Plummer, Erin K. Sharpe, Paula Johnson Tew

## Undergraduate Program Adviser

Michael Fawkes

## General Information

### Administrative Assistant

Sandra Notar

905-688-5550, extension 3259

Academic South 357

<http://www.brocku.ca/recandleisure/>

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 General Recreation program allows students the flexibility to develop their own program to meet specific needs in the workplace (e.g., management, administration, entrepreneurship) or to combine interests rather than focussing on one. Courses can be chosen from the general recreation course base as well as from any of the specialized areas.

The Outdoor Recreation program focusses on recreation and the natural environment, and encompasses ecotourism, resource management, adventure, parks management,

heritage interpretation, outdoor education, leadership and wilderness pursuits. This program prepares students to facilitate outdoor experiences following conservation and preservation ethics.

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).

## Program Notes

1. A minimum grade of 60 percent in RECL 1P91 is required to continue as a major in Recreation and Leisure Studies. A minimum grade of 60 percent is required in RECL 1P09 and 1P12 to major in Inclusive and Therapeutic Recreation. A minimum grade of 60 percent is required in RECL 1P96 to major in Outdoor Recreation. A minimum grade of 60 percent is required in one of RECL 1P09, 1P12, 1P96, 1P98 to major in General Recreation.

2. All students must take 3 context credits: one Humanities context credit, one Science context credit and one Social Science context credit. Two credits must be used to satisfy context credit requirements in year 1. If all three context credits are taken in year 1, two elective credits may be taken in year 2.

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 and a minimum 60 percent average in the remaining credits and credit in RECL 3Q07 or 3Q17. Students must submit an application by July 1.

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5. PEKN 1P90, PSYC 2F12 and 3F20 are required courses for students interested in pursuing NCTRC certification credentials.

6. Students in the Outdoor Recreation concentration are required to take either GEOG 1F90 or GEOG 1F91. GEOG 1F90 can be used to satisfy the Social Science context requirement. GEOG 1F91 can be used to satisfy the Science context requirement. If GEOG 1F90 is taken, GEOG 1F91 may not be taken to satisfy the Science context requirement and if GEOG 1F91 is taken, GEOG 1F90 may not be taken to satisfy the Social Science context requirement. ENVI 1P90 and ENVI 1P91 can be used to satisfy the Social Science context requirement (students would take ENVI 1P91 in year 2).

7. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

## Honours Program

### General

#### Year 1

- RECL 1P09 or 1P12
- RECL 1P91, 1P96 and 1P98
- COSC 1P95
- WRIT 1P94
- two elective credits (see program notes 2 and 3)

#### Year 2

- RECL 2P00, 2P07, 2P10 and 2P11
- three elective credits (see program notes 2 and 3)

#### Year 3

- RECL 3P01
- RECL 3Q07 or 3Q17
- two RECL credits numbered 2(alpha)90 or above
- two elective credits (see program notes 3 and 4)

#### Year 4

- RECL 3F95, 4P01 and 4P10
- RECL 4F07 or 4F97
- two elective credits (see program note 3)

## RECREATION AND LEISURE STUDIES

### Inclusive and Therapeutic Recreation (Honours only)

#### Year 1

- RECL 1P09, 1P12 and 1P91
- RECL 1P96 or 1P98
- COSC 1P95
- WRIT 1P94
- two elective credits (see program notes 1 and 2)

#### Year 2

- RECL 2P00, 2P07, 2P10, 2P11, 2P12 and 2P52
- two elective credits (see program notes 2, 3 and 5)

#### Year 3

- RECL 3P01, 3P22 and 3P32
- RECL 3Q07 or 3Q17
- one credit from RECL 3F95 3P04, 3P14, 3P21, 3P23, 3P24, 3P43, 3P94
- two elective credits (see program notes 3, 4 and 5)

#### Year 4

- RECL 4F02, 4P01, 4P12 and 4P22
- RECL 4F07 or 4F97
- one and one-half elective credits (see program notes 3 and 5)

### Outdoor Recreation (Honours only)

#### Year 1

- One of RECL 1P09, 1P12, 1P98
- RECL 1P91 and 1P96
- COSC 1P95
- ENVI 1P90 (see program note 6)
- GEOG 1F90 or 1F91 (see program note 6)
- WRIT 1P94
- one elective credit (see program notes 2 and 3)

#### Year 2

- RECL 2P00, 2P07, 2P11, 2P16 and 2P66
- ENVI 1P91 or 2P28 (see program note 6)
- two elective credits (see program notes 2 and 3)

#### Year 3

- RECL 3P01
- RECL 3Q07 or 3Q17
- one and one-half credits from RECL 2P96, 3P06, 3P26, 3P36, 3P66, 3P96
- one-half RECL credit numbered 2(alpha)90 or above
- two elective credits (see program notes 3 and 4)

#### Year 4

- RECL 4F07 or 4F97

- RECL 4P01, 4P06 and 4P16
- one-half RECL credit numbered 3(alpha)90 or above
- two elective credits (see program note 3)

### Bachelor of Recreation and Leisure Studies with Major

#### General

##### Year 1

- RECL 1P09 or 1P12
- RECL 1P91, 1P96 and 1P98
- COSC 1P95
- WRIT 1P94
- two elective credits (see program notes 2 and 3)

##### Year 2

- RECL 2P00, 2P07, 2P10 and 2P11
- three elective credits (see program notes 2 and 3)

##### Year 3

- RECL 3P01
- two and one-half RECL credits numbered 2(alpha)90 or above
- two elective credits (see program note 3)

##### Year 4

- RECL 3F95, 3P94, 3P97, 4P01 and 4P10
- two elective credits (see program note 3)

### Inclusive and Therapeutic Recreation

#### Year 1

- RECL 1P09 1P12 and 1P91
- RECL 1P96 or 1P98
- COSC 1P95
- WRIT 1P94
- two elective credits (see program notes 2 and 3)

#### Year 2

- RECL 2P00, 2P07, 2P10, 2P11, 2P12 and 2P52
- two elective credits (see program notes 2, 3, and 5)

#### Year 3

- RECL 3P01, 3P22 and 3P32
- one credit from RECL 3P04, 3P14, 3P21, 3P23, 3P24, 3P43, 3P94
- one-half RECL credit numbered 2(alpha)90 or above
- two elective credits (see program notes 3, 4 and 5)

#### Year 4

- RECL 3F95, 3P97, 4F02, 4P01, 4P12 and 4P22
- one elective credit (see program note 3)

### Outdoor Recreation

#### Year 1

- One of RECL 1P09, 1P12, 1P98
- RECL 1P91 and 1P96
- COSC 1P95
- ENVI 1P90 (see program note 6)
- GEOG 1F90 or 1F91 (see program note 6)
- WRIT 1P94
- one elective credit (see program notes 2 and 3)

#### Year 2

- RECL 2P00, 2P07, 2P11, 2P16 and 2P66
- ENVI 1P91 or 2P28 (see program note 6)
- two elective credits (see program notes 2 and 3)

#### Year 3

- RECL 3P01
- one and one-half credits from RECL 2P96, 3P06, 3P26, 3P36, 3P66, 3P96
- one RECL credit numbered 2(alpha)90 or above
- two elective credits (see program note 3)

#### Year 4

- RECL 3F95, 3P97, 4P01, 4P06 and 4P16
- two elective credits (see program note 3)

### Pass Program

#### Year 1

- RECL 1P09 or 1P12
- RECL 1P91, 1P96 and 1P98
- COSC 1P95
- WRIT 1P94
- two elective credits (see program notes 2 and 3)

#### Year 2

- RECL 2P00, 2P07, 2P10 and 2P11
- three elective credits (see program notes 2 and 3)

#### Year 3

- RECL 3P01
- two and one-half RECL credits numbered 2(alpha)90 or above (see program note 4)
- two elective credits (see program note 3)

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**Brock/Colleges Articulation Agreements**

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Canadore College, Centennial College, Conestoga College, Fanshawe College, Humber College, Mohawk College, Niagara College and Sir Sanford Fleming 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.

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, Mohawk College, Niagara College or Sir Sanford Fleming College in two semesters as full-time students.

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**Description of Courses**

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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

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**Prerequisites and Restrictions**

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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 and TOUR majors.

**RECL 1P09****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 and TOUR majors until date specified in Registration guide.

Completion of this course will replace previous assigned grade in RECL 1P92.

**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 and TOUR majors. Prerequisites: RECL 1P09 and 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in RECL 1P92.

**\* RECL 1P91****Introduction to Leisure Studies**

(also offered as TOUR 1P91)

Nature, significance and theories of recreation, leisure, and tourism, participation and opportunities for involvement and experiences, resource management, delivery and facilitation structures.

*Lectures, seminar, 3 hours per week.*

Restriction: open to RECL and TOUR majors until date specified in Registration guide.

**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 and TOUR majors. Prerequisite: RECL 1P91 or permission of the instructor.

**\* RECL 1P98****Introduction to Tourism**

(also offered as TOUR 1P98)

Socio-cultural, environmental and economic impact of tourism. Elements drawn from recreation, sociology, psychology, geography,

**RECREATION AND LEISURE STUDIES**

economics and business.

*Lectures, seminar, 3 hours per week.*

Restriction: open to RECL and TOUR majors. Prerequisite: RECL 1P91 or permission of the instructor.

Note: student minoring in Tourism Studies may register. Contact the Recreation and Leisure Studies Department.

**RECL 2P00****Program Planning and Supervision**

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.*

Restriction: open to RECL and TOUR majors.

Prerequisite: RECL 1P91.

Note: field experience fee will be charged; consult the Department.

**\* RECL 2P07****Introduction to Research Design and Evaluation**

(also offered as TOUR 2P07)

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 and TOUR majors.

Prerequisite: COSC 1P95 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHSC 2Q07, PEKN 2P08 and SPMA 2P07.

**RECL 2P10****Introduction to Administration of Recreation Service Organizations**

Topics may include management, marketing, finance, and current managerial trends and future developments.

*Lectures, seminar, 3 hours per week.*

Restriction: open to RECL and TOUR majors until date specified in Registration guide.

Prerequisite: RECL 1P91.

Completion of this course will replace previous assigned grade in OBHR 2P51 and 2P52.

**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 and TOUR majors

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until date specified in Registration guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 1P91 or CHSC 1F90.

### 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.*

Prerequisite: RECL 1P09 (1P92) or permission of the instructor.

Completion of this course will replace previous assigned grade in RECL 3P12.

### RECL 2P16

#### **Wilderness Philosophies**

Development of major perspectives towards wilderness. Critical discourse on human place in relation to the natural environment.

*Lectures, 3 hours per week.*

Restriction: open to Outdoor Recreation majors until date specified in Registration guide.

Prerequisite: RECL 1P96 or permission of the instructor.

### \* RECL 2P18

#### **Tourism Industry Operations**

(also offered as TOUR 2P18)

Foundations of tourism service delivery systems. The interactive relationships and operational aspects of public and private travel tourism systems in Canada and around the world.

*Lectures, seminar, 3 hours per week.*

Prerequisite: RECL 1P98 or permission of the instructor.

Note: field experience fee will be charged for a one-day field trip; consult the Department.

### # RECL 2P41

#### **Economics of Tourism and Leisure Activities** (also offered as ECON 2P41 and TOUR 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: students must have a minimum of 4.0 credits. Not open to ECON (single or combined) majors, BBE or ENEC students.

### 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, 3 hours per week.*

Prerequisite: RECL 1P12 (1P92) or permission of the instructor.

Completion of this course will replace previous assigned grade in RECL 3P02.

### \* RECL 2P66

#### **Outdoor Pursuits in Physical Education and Recreation**

(also offered as PEKN 2P66)

Theoretical and applied principles related to skills, task analysis, leadership and experiential learning in the outdoors.

*Lectures, lab, field experience, 3 hours per week.*

Restriction: open to RECL, BPhEd (Honours)/BEd (Intermediate/Senior), BPhEd (Honours)/BEd (Primary/Junior), BPhEd majors. Students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 1P96, PEKN 1P93 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

Completion of this course will replace previous assigned grade in PEKN 3P05 and RECL (PEKN) 3P46.

### RECL 2P96

#### **Parks Management**

Historical and contemporary philosophies related to the development, planning and management of parks in Canada and around the world.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 1P96 or permission of the instructor.

Note: case studies are used to illustrate the problems related to preservation and use of protected areas.

Completion of this course will replace previous assigned grade in RECL 3P16.

### \* RECL 3F95

#### **Leisure Services Field Work**

(also offered as TOUR 3F95)

Theoretical principles of workplace culture in recreation and tourism service organizations focussing on strategies for entry into the profession and behaviour related to successful performance in the workplace. Enhancement

of professional development in recreation and tourism organizations. Practical experiences in specific recreation and tourism organizations. Restriction: open to RECL and TOUR majors with a minimum of 9.5 overall credits.

Note: additional course fee will be charged, consult the Department.

Completion of this course will replace previous assigned grade in RECL (TOUR) 3P05, 3P95, 3P99 and 4F05.

### RECL 3P01

#### **Issues in Leisure and Lifestyles**

Classical, modern and contemporary concepts of play, recreation and leisure. Research strategies, lifestyle implications and models for interpreting leisure and lifestyles.

*Lectures, seminar, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 7.0 overall credits.

Prerequisites: RECL 2P07 and 2P11.

### 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: students must have a minimum of 7.0 overall credits or permission of the instructor.

Prerequisite: RECL 1P91.

### 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: students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 1P96 or permission of the instructor.

### RECL 3P10

#### **Managing Recreation Service Organizations**

Theories, research and current practices related to primary management functions in recreation service organizations. Emphasis on planning, organizing, staffing, directing, controlling and maintaining services and facilities.

*Lectures, 3 hours per week.*

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Restriction: students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 2P10.

Completion of this course will replace previous assigned credit in OBHR 2P51 and 2P52.

### RECL 3P13

#### Play and Culture

Play in socio-cultural contexts; children's play and playgrounds; games and gaming; word play (storytelling, drama, humour); adult play and leisure; festivals and celebrations.

*Lectures, seminar, 3 hours per week.*

Prerequisite: RECL 2P11.

### RECL 3P14

#### Interpersonal Communication in Recreation

Interpersonal qualities, abilities and insights that play an important role in facilitating a recreation experience. Emphasis on self-concept, perception/values, language, non-verbal communication, listening, disclosure, relationships and resolving conflicts in the recreation setting.

*Lectures, lab, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 1P91.

Completion of this course will replace previous assigned grade in SOCI (COMM) 2P55.

### \* RECL 3P18

#### Tourism Planning and Development (also offered as TOUR 3P18)

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: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 1P98.

### RECL 3P20

#### Managing People in Recreation Service Organizations

Theories, research and current practices. Fundamentals of managing individuals and groups. Emphasis on leadership, motivation, problem solving, conflict resolution and organizational change and development.

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P10.

Completion of this course will replace previous assigned grade in OBHR 2P51, 2P52 and SPMA 3P21.

### RECL 3P21

#### Community Development in Recreation

Various theoretical perspectives on community organization and development, as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits or permission of the instructor.

Prerequisite: RECL 1P91.

### 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: students must have a minimum of 7.0 overall credits.

Prerequisites: RECL 2P12 and 2P52.

Completion of this course will replace previous assigned grade in RECL 2P22.

### \* RECL 3P23

#### Therapeutic Benefits of Humour (also offered as CHSC 3P23)

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.*

Prerequisite: RECL 2P11, CHSC 1F90 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: students must have a minimum of 9.5 overall credits.

Prerequisites: RECL 1P09 or RECL 1P12; RECL 2P11 or permission of the instructor.

### RECL 3P26

#### Outdoor Education and Interpretation

Theoretical and practical investigation of the outdoors as a setting to develop environmental awareness and connection to place.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisites: RECL 2P16 and ENVI 1P90 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

### \* RECL 3P28

#### Tourism Distribution Channels

(also offered as TOUR 3P28)

Nature and scope of distribution channels for tourism products and related issues in the creation of destination images.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 2P18, TOUR 2P28 or permission of the instructor.

### RECL 3P32

#### Services and Techniques in Inclusive and Therapeutic Recreation

Procedures necessary for assessment, planning, implementation, management and evaluation in therapeutic recreation services.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisites: RECL 2P12 and 2P52 or permission of the instructor.

### RECL 3P36

#### Adventure Recreation

Theoretical and practical investigation of historical, social, and psychological foundations of adventure recreation, focusing on the use of adventure programming to develop self and groups.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 4.0 overall credits.

Prerequisite: RECL 1P96 or permission of the instructor.

Note: field experience fee will be charged; consult the Department.

### \* RECL 3P38

#### Strategic Management in Tourism

(also offered as TOUR 3P38)

Theories, principles and practices in tourism management. Growth management principles; analyses of globalization of competitive environments, corporate strategies for small firms to multinational corporations and visitor management techniques, and quality issues.

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P18, TOUR 2P28 or permission of the instructor.

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### \* RECL 3P40

#### **Marketing in Tourism and Recreation Service Organizations**

(also offered as TOUR 3P40)

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.*

Prerequisites: RECL 2P10 or 2P18; RECL 2P07 or permission of the instructor.

Completion of this course will replace previous assigned grade 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 9.5 overall credits.

Prerequisite: RECL 2P11, WISE 1F90 or permission of the instructor.

### \* RECL 3P48

#### **Tourism and Recreation in Marine Environments**

(also offered as TOUR 3P48)

History and current issues related to sectors of marine tourism. Case study based analysis of theory and critical aspects of marine tourism operations.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 5.0 overall credits.

Prerequisite: RECL 1P96, 1P98 or permission of the instructor.

Note: field experience fee will be charged for a one-day field trip; consult the Department.

Completion of this course will replace previous assigned grade in RECL (TOUR) 3V48.

### RECL 3P50

#### **Entrepreneurship in Recreation Service Organizations**

Process of 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. Exploration of entrepreneurship as it relates to the management of recreation service organizations.

*Lectures, 3 hours per week.*

Prerequisites: RECL 2P10 or 2P18; RECL 2P07 or permission of the instructor.

Completion of this course will replace previous assigned grade in RECL 3P09.

### \* RECL 3P66

#### **Ecotourism**

(also offered as TOUR 3P66)

Importance of ecotourism as a global phenomenon. Analysis of ecotourism as it relates to sustainability and other forms of alternative tourism, including impacts, risk management, programming, tour operation, ethics, development, marketing and parks management.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 1P96, 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in RECL (TOUR) 3V66.

### \* RECL 3P68

#### **Heritage Tourism**

(also offered as TOUR 3P68)

Built, natural and cultural resources for heritage tourism destinations on a variety of scales from World Heritage Sites to countryside and rural tourism attractions. Regional identities and environments and the importance of small and medium sized enterprises.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 1P98.

Completion of this course will replace previous assigned grade in RECL (TOUR) 3V68.

### RECL 3P70

#### **Financing Recreation Service Organizations**

Financial options for public, commercial, and not-for-profit recreation service organizations. Foundations of financing and resource acquisition including budgeting, and less-than-fee simple approaches; direct partnerships, interagency co-operation, privatization, contracting out, exactions, facilitation, and co-production. Volunteers, donations, sponsorships, soliciting

investments, and foundations.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: RECL 2P10.

### \* RECL 3P78

#### **International Tourism**

(also offered as TOUR 3P78)

Changes in power relations, environment, society and economy through the globalization of tourism. Human rights and other critical issues of international tourism.

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P18, TOUR 2P28 or permission of the instructor.

### RECL 3P90

#### **Directed Readings I**

Topic 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.

### RECL 3P91

#### **Directed Readings II**

Topic 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.

### RECL 3P94

#### **Leisure and Lifestyle Benefits**

Personal, social, economic and environmental benefits of incorporating leisure into lifestyle changes.

*Lectures, seminar, 3 hours per week.*

Restriction: open to RECL majors with a minimum of 9.0 overall credits or approval to year 4.

Completion of this course will replace previous assigned grade in RECL 4F04 and 4P04.

### \* RECL 3P96

#### **Ethics in Outdoor Recreation and Tourism**

(also offered as TOUR 3P96)

Exploration of values and moral development relating to outdoor recreation and tourism.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 9.5 overall credits.

Prerequisite: RECL 1P96, 1P98 or permission of the instructor.



**RECL 3P97**  
**Leisure Program Evaluation and Needs Assessments**

Needs assessments and program evaluations in planning, managing, and administering delivery of leisure services and programs.

*Lectures, lab, 3 hours per week.*

Restriction: open to RECL and TOUR majors.

Prerequisite: RECL 2P07.

\* RECL 3P98

**Issues in Sustainable Community Recreation and Tourism**

(also offered as TOUR 3P98)

Understanding, developing, and initiating sustainable practices for community recreation and tourism. Applying natural, social and economic issues of sustainability to host environments.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 9.5 overall credits.

Prerequisite: one of RECL 2P11, TOUR 2P28, 2P42, 2P94 or permission of the instructor.

Note: completion of this course will replace previous assigned grade in RECL 3V98.

\* RECL 3Q07

**Quantitative Analysis**

(also offered as TOUR 3Q07)

Quantitative means of understanding, interpreting and analyzing statistical data and information.

*Lectures, lab, 3 hours per week.*

Restriction: open to RECL and TOUR majors.

Prerequisite: RECL 2P07.

Completion of this course will replace previous assigned grade in CHSC 3Q07, PEKN 3P08, and RECL 3P07.

\* RECL 3Q17

**Qualitative Approaches to Inquiry**

(also offered as TOUR 3Q17)

Theories, approaches, designs, methods and procedures for conducting qualitative studies.

*Lectures, seminar, 3 hours per week.*

Restriction: open to RECL and TOUR majors.

Prerequisite: RECL 2P07.

Completion of this course will replace previous assigned grade in CHSC 3P37, 3Q17, PEKN 3P18 and RECL 3P17, SPMA 3P17.

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.*

Prerequisites: RECL 4P12 and 4P22 or permission of the instructor.

Note: internship proposal must be submitted no later than April 15th each year for approval by the Department. Internship may be remunerated or volunteer.

RECL 4F07

**Research Project**

Development of appropriate and relevant research designs in recreation and leisure studies.

*Lectures, 3 hours per week.*

Restriction: open to RECL majors with approval to year 4 (honours).

Note: students propose a research problem, review the literature, discuss methodology, collect and analyze the data, and make a formal presentation.

Completion of this course will replace previous assigned grade in TOUR 4F07.

RECL 4F97

**Honours Thesis**

Individual research project carried out under the direction of a faculty adviser in a student's area of interest.

*Seminar, 3 hours per week.*

Restriction: open to RECL majors with approval to year 4 (honours).

Note: options include a formal honours project, a research journal manuscript or a presentation for a research symposium or professional conference.

Completion of this course will replace previous assigned grade in RECL 4P97.

RECL 4P01

**Contemporary Issues in Leisure Studies**

Significant historical, contemporary and future issues and concerns in recreation and leisure studies. Emphasis on creative lifestyle development and change at all ages.

*Lectures, 3 hours per week.*

Restriction: open to RECL majors with approval to year 4 or a minimum of 13.5 overall credits.

RECL 4P06

**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.

Prerequisites: RECL 1P96; one credit from RECL 2P16, 2P66, 2P96, 3P06, 3P26, 3P36, 3P66, 3P96.

RECL 4P10

**Contemporary Issues in Recreation Services**

Issues and concerns related to administration and management of recreation services.

*Lectures, 3 hours per week.*

Restriction: open to RECL majors with approval to year 4 or a minimum of 13.5 overall credits.

Completion of this course will replace previous assigned grade in RECL 4P11.

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.

Prerequisites: RECL 3P22 and 3P32.

Completion of this course will replace previous assigned grade in RECL 4P02.

RECL 4P16

**Advanced Wilderness Program Planning**

Theoretical and practical aspects of outdoor recreation/ecotourism program planning in a wilderness setting.

*Field trip, seven days; pre-trip session, two days.*

Restriction: open to Outdoor Recreation majors with approval to year 4 or a minimum of 13.5 overall credits until date specified in Registration guide.

Prerequisites: RECL 2P16; one credit from RECL 2P66 (PEKN 3P46 or PEKN 3P05), 2P96, 3P06, 3P26, 3P36, 3P66, 3P96.

## RECREATION AND LEISURE STUDIES

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 approval to year 4 (honours) or a minimum of 13.5 overall credits.

Prerequisites: RECL 3P22 and 3P32.

Completion of this course will replace previous assigned grade in RECL 4P02.

## Sociology

### Chair

Murray E. G. Smith

### Undergraduate Co-ordinator

John Sorenson

### Professors

June Corman, Ann Duffy, Daniel G. Glenday, Jane Helleiner, Murray E. G. Smith, John Sorenson

### Associate Professor

Judith C. Blackwell

### Assistant Professors

Kate Bezanson, Jonah Butovsky, Ellen Faulkner, Amanda Glasbeek, Ana Isla, Mary-Beth Raddon, David Walters, Michelle Webber

### Co-ordinator

Viola Bartel

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## General Information

### Administrative Assistants

Jill DeBon, Linda Landry

905-688-5550, extension 3455

Academic South 401

<http://www.brocku.ca/sociology/>

The various disciplines of the Department of Sociology (social anthropology, social psychology and sociology) are concerned broadly with processes, structure and behaviour conditioned by participation in social groups. The Department is committed to a conception of the social sciences as scientific disciplines and to the belief that sound social action projects should be based on rigorous scientific effort, and to the view that social analysis is a complex process and that no one discipline can provide a complete perspective.

Business, government, organized labour and voluntary associations increasingly require an understanding of group behaviour. Sociology in Canada has made significant contributions to our knowledge of elites and the class structure, the tensions between Québec and the rest of the country, gender relations, ethnic and sex segregation in the work force, crime and

delinquency, regional underdevelopment, and equality of opportunity. Sociological input has been invited by and contributed to the Royal Commission on Bilingualism and Biculturalism, the Task Force on Canadian Unity, the Commission on the Non-medical Use of Drugs and other government agencies and departments. Public policies in the areas of education, aboriginal peoples, crime and delinquency, official languages and regionalism have all benefited from sociological analysis. Undergraduate training in Sociology provides students with a broad and scientific approach to society that both enhances understanding of social issues and provides a valuable basis for employment in human service industries.

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, Environment, Labour Studies or Women's Studies.

Students may be admitted to 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. Application 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.

Students declaring a major in Sociology (Honours, Pass, [single or combined]) are responsible for ensuring that their programs satisfy the departmental requirements. Faculty advice is available on 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 Registrar's Office) and a minimum 60 percent Sociology average is required.

### Collaborative Study in Policing and Criminal Justice

The Collaborative Study in 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.

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## Program Notes

1. All Pass degree program students are advised to take WRIT 1P94 or SOCI 2P10.
2. Students with limited experience in computer applications are advised to take COSC 1P95.
3. SOCI 4F90 is restricted to students with a minimum 80 percent (single or combined) major average or permission of the department.
4. SOCI 4F91 is restricted to students with a minimum 75 percent (single or combined) major average or permission of the department.
5. 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.
6. 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 Undergraduate Co-ordinator or the Chair.
7. With permission of the Chair of Sociology, courses in related disciplines numbered 3(alpha)90 or above may be considered for SOCI credit.
8. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered

## SOCIOLOGY

3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

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### Honours Program

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#### Year 1

- SOCI 1F90
- one Humanities context credit
- one Science context credit
- two elective credits (see program note 2)

#### Year 2

- SOCI 2P10, 2P11, 2P12 and 2P13
- one SOCI credit
- 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

Depending upon major average, students may select one of two streams:

#### Thesis option:

- SOCI 4F01 and 4F90 (see program note 3)
- one SOCI credit numbered 3(alpha)90 or above (see program note 7)
- two elective credits

#### Course Work option:

- Three SOCI credits numbered 3(alpha)90 or above (see program notes 4 and 7)
- two elective credits

### Policing and Criminal Justice Program

Consult the Policing and Criminal Justice entry for a listing of the program requirements.

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### Pass Program

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#### Year 1

- SOCI 1F90
- one Humanities context credit
- one Science context credit
- two elective credits

#### Year 2

- SOCI 2P11, 2P12 and 2P13
- one and one-half SOCI credits
- two elective credits (see program note 1)

#### Year 3

- SOCI 3P00 and 3P01
- two SOCI credits numbered 2(alpha)90 or above
- two elective credits

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### Combined Major Program

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#### Year 1

- SOCI 1F90
- one credit from the co-major discipline
- one Humanities context credit
- one Science context credit
- one elective

#### Year 2

- SOCI 2P10, 2P11 and 2P13
- one-half SOCI credit
- two credits from the co-major discipline
- one elective credit

#### Year 3

- SOCI 3P00 and 3P01
- SOCI 2P12 or 3P12
- one-half SOCI credit
- two credits from the co-major discipline
- one elective credit (see program note 8)

#### Year 4

Depending upon the major average, students may select one of the two streams

#### Thesis option:

- SOCI 4F01 and 4F90 (see program note 3)
- two credits from the co-major discipline (see program note 5)
- one elective credit (see program note 8)

#### Course Work option:

- Two SOCI credits numbered 3(alpha)90 or above (see program notes 4 and 7)
- two credits from the co-major discipline (see program note 6)
- one elective credit (see program note 8)

### Pass

#### Year 1

- SOCI 1F90
- one credit from the co-major discipline
- one Humanities context credit
- one Science context credit

- one elective credit

#### Year 2

- SOCI 2P11, 2P12 and 2P13
- one-half SOCI credit
- two credits from the co-major discipline
- one elective credit

#### 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.

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### Certificate in Criminology

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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.

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 credit from SOCI 3P33, 3P61, 3P62, 3P63, 3P64, 3P65, 3V82, 3V84
- one of SOCI 2P65, 2P71, 3P46, 3P47, 3P51, 3P83
- one credit from SOCI 4P33, 4P61, 4P62

Under exceptional circumstances, the Department may require the substitution of other relevant courses for those usually required.

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**Concentration Program**

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**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 and one half credits from SOCI 3P33, 3P61, 3P62, 3P63, 3P64, 3P65, 3V82, 3V84
- one of SOCI 2P65, 2P71, 3P46, 3P47, 3P51, 3P83
- one credit from SOCI 4P33, 4P61, 4P62

**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, 2P34, 2P57, 2P65, 2P71, 2P73, 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 4P22, 4P32, 4P33, 4P41, 4P47, 4P51, 4P70, 4P85

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**Minor Program**

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**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 credit from SOCI 3P33, 3P61, 3P62, 3P63, 3P64
- one of SOCI 2P65, 2P71, 3P46, 3P47, 3P51, 3P83

**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

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**MA in Social Justice and Equity Studies**

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Sociology is the administrative home of the interdisciplinary MA in Social Justice and Equity Studies. This graduate program unites scholars from distinct academic disciplines including Sociology, Geography, the Centre for the Environment, History, English, Applied Language Studies, and Modern Languages, Literatures, Cultures. For further information, including a list of participating faculty, see the current graduate calendar or the Sociology Department website.

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**Course Descriptions**

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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

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**Prerequisites and Restrictions**

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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 Social and 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.*

Completion of this course will replace grade in SOCI 2P82.

**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 until date specified in Registration guide.

Prerequisite: SOCI 1F90.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

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### 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology or Women's Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

### \* 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.*

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### \* 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) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00 or permission of the instructor.

Note: students minoring in Sociology or Women's Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade 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.*

Prerequisite: SOCI 1F90 or permission of the instructor.

### 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, cooperatives, mutual aid associations, and democratic socialist planning.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### \* 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) and LABR majors until date

specified in Registration guide.

Prerequisite: SOCI 1F90 or LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Note: students minoring in Sociology or Labour Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### # 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, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

### # 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 CHLH, CHYS BA/BE and CHYS (single or combined) majors until date specified in Registration guide.

Prerequisites: CHYS 1F90; CHSC 1F90 or SOCI 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# SOCI 2P54

**Documentary Film**

(also offered as COMM 2P54 and FILM 2P54)

History, theory, aesthetics and cultural implications of documentary film and other 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.

Completion of this course will replace previous assigned grade in SOCI (COMM/FILM) 2F54.

\* 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) and COMM (single and combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, COMM 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration

guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade in SOCI 3P57.

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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previously assigned grade in SOCI (COMM) 2P55.

SOCI 2P61

**Introduction to Criminology**

Criminology as a scientific discipline: 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

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 until date specified in Registration guide.

Prerequisites: SOCI 1F90 and 2P61 or

permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

\* 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) and LABR majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Note: students minoring in Sociology or Labour Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

\* 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) and LABR majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, LABR 1F90 (1P91 or 1P92) or permission of the instructor.

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Note: students minoring in Sociology or Labour Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

### \* SOCI 2P83

#### **Social and Cultural Anthropology of the Contemporary World**

(also offered as INTL 2P83)

Anthropological perspectives on current global issues through geographically diverse ethnographic case studies.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, 1P80 (2P82) or permission of the instructor

Note: students minoring in Sociology or International Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 or permission of the instructor.

### # 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: 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.

Completion of this course will replace previous assigned grade in SOCI 2V90-2V99.

### 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.

Completion of this course will replace previous assigned grade in SOCI 2V90-2V99.

### # SOCI 2P96

#### **Women and Development**

(also offered as INTL 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: WISE 1F90, LABR 1F90 (1P90 and 1P92) or permission of the instructor.

### # SOCI 2P99

#### **Canadian Women in a Global Context**

(also offered as INTL 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 philosophical meanings of motherhood and racial differences of mothering and mothering roles, class, cultural and racial differences in mothering and motherhood.

*Lectures, 3 hours per week.*

Prerequisite: SOCI 1F90 or WISE 1F90.

Completion of this course will replace previous assigned grade in SOCI (WISE) 2V99.

### 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 and combined) majors until date specified in Registration guide.

Prerequisite: SOCI 3P00 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 and combined) majors until date specified in Registration guide.

Prerequisites: SOCI 1F90, 2P11 and 2P13 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**# SOCI 3P14**

**Media Industries**

(also offered as COMM 3P14 and PCUL 3P14)

Media industries emphasizing Canadian media economics and public policy.

*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**

Growth of queer communities and their influence on popular print, audio and visual media. Topics may include gays and Hollywood, gays and the fashion industry, international gay games, gays and the theatre, and gays and cyberspace.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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) and CHSC majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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) and CHSC majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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 and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Note: SOCI 2P32 recommended. Students minoring in Sociology or Labour Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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.*

Restriction: open to SOCI (single or combined) and LABR majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**SOCI 3P33**

**Law and Social Regulation**

Legal, administrative and moral regulation of deviant, risky or otherwise undesirable populations and the production of desirable citizens.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisites: SOCI 1F90 and 2P33 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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) and LABR majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Note: students minoring in Sociology or Labour Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

**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

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change.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### # 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 BA/BEEd, CHYS (single or combined), and WISE (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one of SOCI 2P11 and 2P13, CHYS 2P38, WISE 2P90, 2P91.

Completion of this course will replace previous assigned grade in SOCI (CHYS/WISE) 3P92.

### \* SOCI 3P46

#### **Aboriginal Peoples and Canadian Society**

(also offered as ABST 3P46)

Relationship between Canada's Aboriginal peoples and selected institutions in Canadian society such as education, industry and government. Topics include the European impact on indigenous culture, the conflict between traditional life styles and Canadian institutions and the responses of Aboriginal peoples.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### \* 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. Focus on 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) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00 or permission of the instructor.

Note: students minoring in Sociology or Women's Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

### # SOCI 3P54

#### **Issues in Documentary Film**

(also offered as COMM 3P54 and FILM 3P54) Advanced studies in selected aspects of documentary film and other media.

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: SOCI 2P54.

Completion of this course will replace previous assigned grade in SOCI (COMM/FILM) 2F54.

### \* 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) and WISE (single or combined) majors or minors until date specified in Registration guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, 2P00 or permission of the instructor.

Note: SOCI 2P57 recommended. Students minoring in Sociology or Women's Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 until date specified in Registration guide.

Prerequisite: SOCI 2P61 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 until date specified in Registration guide.

Prerequisites: SOCI 1F90, 2P61 and 2P62 or permission of the instructor

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### SOCI 3P63

#### **Crime Prevention 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 until date specified in Registration guide.

Prerequisite: SOCI 2P61, 2P62 or permission

of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 until date specified in Registration guide.

Prerequisite: SOCI 2P61, 2P62 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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) and LABR majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

Note: students minoring in Sociology or Labour Studies may register prior to date

specified in Registration guide. Contact the Sociology Department.

**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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**# SOCI 3P72**

**Popular Music and Society**

(also offered as COMM 3P72, MUSI 3P72 and PCUL 3P72)

Critical approaches to popular music in its social, cultural, political and economic contexts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single and combined), COMM (single and combined), MUSI (single and combined) and PCUL (single and combined) majors with a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned grade in SOCI (COMM/MUSI/PCUL) 2P70 and COMM (MUSI/PCUL) 3P70.

**\* 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) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 1F90, WISE 1F90 or permission of instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* 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 BA/BEEd and CHYS (single or combined) majors until date specified in Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**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 until date specified in Registration guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**SOCI 3P90**

**Directed Studies III**

Topic, readings and methods of evaluation

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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 3P93

#### Media and Minorities

(also offered as COMM 3P93 and PCUL 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.*

Prerequisite: one of SOCI 2P11 and 2P13, COMM 2F50, 2P21 or permission of the instructor.

### 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 3V80-3V89

#### Selected Topics in Sociology

Selected issues in sociology

### SOCI 3V82

#### 2005-2006: Women and Crime

Overview of 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, prostitution, drug use, "girl gangs," women's prisons, women police officers, Domestic Violence Courts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: SOCI 2P61, 2P62 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### SOCI 3V84

#### 2005-2006: 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 until date specified in Registration guide.

Prerequisite: SOCI 2P61, 2P62 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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.

Co-requisite: SOCI 4F90.

Completion of this course will replace previous assigned grade in SOCI 4P01.

### 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 and approval to year 4 (honours) or permission of the Department.

Prerequisites: SOCI 3P01 and 3P12.

Co-requisite: SOCI 4F01 (4P01).

Note: the results of the project will be presented as a thesis.

### 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.

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.

*Lectures, 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.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade in SOCI 3P02.

### 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.

*Lectures, lab, 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 instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### SOCI 4P11

#### Research Design for Policy and Planning

Relationship between theoretical analysis and research methods as a practical task emphasis on applied topics such as evaluation research and needs assessment, areas of study which are important to social policy and planning.

*Lectures, 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 instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade in SOCI 4F10.

**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).

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* SOCI 4P22**

**Advanced Seminar in 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. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**# 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 (3P16) or permission of the instructor.

**\* SOCI 4P26**

**Advanced Seminar in 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.

*Lectures, 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).

Prerequisite: SOCI 3P26, 3P27 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* SOCI 4P32**

**Advanced Seminar in the 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.

*Lectures, 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 instructor.

Note: SOCI 2P32 recommended. Students minoring in Sociology or Labour Studies may register prior to date specified in Registration guide. Contact the Sociology Department.

**SOCI 4P33**

**Advanced Seminar in 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.

*Lectures, 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 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**# 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) and CHYS (single or combined) majors with a minimum of 14.0 overall credits and approval to year 4 (honours).

Prerequisite: one of SOCI 3P92, CHYS 3P23, 3P38, 3P44 (3P92), 3P91, 3Q33 (3Q93), 3Q94.

**SOCI 4P47**

**Advanced Seminar in 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.

*Lectures, 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. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

**\* SOCI 4P51**

**Advanced Seminar in 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.

*Lectures, 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 instructor.  
Note: SOCI 3P51 recommended. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### 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.

*Lectures, 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 instructor.

Note: SOCI 3P00 or 3P01 recommended. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### SOCI 4P61

##### **Advanced Topics in 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.

*Lectures, 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, 2P62 and 3P61 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### SOCI 4P62

##### **Advanced Seminar in Social and Moral Regulation**

Topics may include critical theoretical perspectives on deviance, moral regulation and the politics of social control.

*Lectures, 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; one credit from SOCI 2P61, 2P62, 3P33 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### 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).

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### SOCI 4P85

##### **Advanced Seminar on 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. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### 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

##### **Advanced Seminar in 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.

*Lectures, 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 3P00 and 3P01 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Completion of this course will replace previous assigned grade in SOCI 4P41.

#### SOCI 4V10-4V19

##### **Selected Research Topics**

Selected methodological issues in sociology. Advanced methods for the measurement of variables and the analysis of data in the social sciences emphasizing the implications of various theoretical categories of data, multiple approaches to the estimation of reliability and validity and the use of computer-assisted analytic procedures.

*Seminar, lab, 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: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

#### 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).

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# Spanish

*This program is offered through the Department of Modern Languages, Literatures and Cultures*

## Chair

Ernesto J. Virgulti  
Alexandre L. A. Amprimoz (as of July 1, 2005)

## General Information

### Administrative Assistant

Alison J. Rothwell

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 literature and culture. In addition to the courses taught in Spanish, the Department offers a series of courses taught in English that are acceptable for credit toward a degree. Students are encouraged to participate in the 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.

### Study in Cuba 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 (Matanzas, Cuba).

### 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 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 or OAC standing or equivalent in Spanish take SPAN 1F90 and may not take SPAN 1F00 without permission of the Department. Permission is granted only in the most exceptional cases.

2. Students without 2 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, 2P20 and 2P21 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. Minor program may include no more than one-half SPAN credit given in English.

9. 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.

10. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 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, but 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 (see program note 1)
- one Science context credit
- one Social Science context credit
- two elective credits

### Year 2

- SPAN 2P20 and 2P21
- 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



## SPANISH

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### Pass Program

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Satisfactory completion of the first three years of the Honours program entitles a student to apply for a Pass degree.

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### Combined Major Program

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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 (see program note 1)
- one credit from the co-major discipline
- one Science context credit
- one Social Science context credit
- one elective credit

#### Year 2

- SPAN 2P20 and 2P21
- 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 SPAN or MLLC credits numbered 2(alpha)90 or above (see program note 7)
- two credits from the co-major discipline
- one elective credit

#### Year 4

- Two SPAN or MLLC credits numbered 3(alpha)90 or above (see program note 7)
- 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.

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### Minor in Spanish

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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, 2P20 and 2P21
  - one SPAN credit (see program note 8)
  - one SPAN literature and/or culture credit numbered 2(alpha)00 or above (see program note 8)
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### Course Descriptions

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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

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### Prerequisites and Restrictions

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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

For students with no knowledge of Spanish. Elements of Spanish grammar. Oral, written and reading practice. Selected readings, multimedia materials.

*Lectures, tutorial, 4 hours per week.*

#### 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, tutorial, 4 hours per week.*

Prerequisite: SPAN 1F00 or two or more years of high school Spanish or permission of the instructor.

#### \* SPAN 1P95

##### Conquest and Colonization

(also offered as PORT 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, seminar, 3 hours per week.*

Note: given in English.

#### \* SPAN 2P10

##### Latin American Culture

(also offered as INTL 2P10 and PORT 2P10) Survey of contemporary social history; the Latin American nations through text and images. Topics include cultural hybridization and identity.

*Lectures, seminar, 3 hours per week.*

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

#### \* SPAN 2P11

##### Iberian Culture

(also offered as PORT 2P11)

Social, political and cultural history of Portugal and Spain through historical and literary texts, film and other visual arts.

*Lectures, seminar, 3 hours per week.*

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

#### SPAN 2P20

##### Research Methods and Textual Analysis I

Introduction to research methods applied to Spanish literature, terminology, critical theory and general historical survey of genres in Hispanic literature. Practical skills of criticism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 1F90 or permission of the instructor.

Completion of this course replaces previous assigned grade in SPAN 2F00 and 2F10.

#### SPAN 2P21

##### Research Methods and Textual Analysis II

Further study in research methods applied to Spanish literature, terminology, critical theory and general historical survey of genres in Hispanic literature. Practical and critical skills of criticism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 2P20 or permission of the instructor.

Completion of this course replaces previous assigned grade in SPAN 2F00 and 2F10.



## \* SPAN 2P82

**Latin American and Iberian Film**

(also offered as FILM 2P82 and PORT 2P82)

Spanish and Latin American representations of identity crises involving issues of nationality, ethnicity, gender and politics. Pastiche, parody and camp aesthetics, and the envisioning of new possibilities of solidarity leading to social transformations.

*Lectures, seminar, 3 hours per week; plus weekly film lab.*

Prerequisite: SPAN 1F90.

Note: Spanish and Portuguese language films with English subtitles. Given in English.

Spanish majors complete written assignments and exams in Spanish.

## SPAN 2V90-2V99

**Culture in a Spanish-Speaking Region**

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 3P64

**Caribbean Narratives**

Social and cultural history of Caribbean writing and art. Key concepts relating to political crises, search for independence and identity in the works of Carpentier, Guillén, Ferré, García Márquez and others.

*Lectures, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

## \* 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, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) 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. Authors may include Borges, Rulfo, Jorge Amado, Peri Rossi, Lispector, and Castellanos.

*Lectures, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

## SPAN 3P97

**Modern Spanish Literature: Romanticism to Realism**

Crises of national identity in poetry and narrative; literary theories dealing with genre, conventions of romanticism, naturalism, realism in context of Iberian culture.

*Lectures, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

## SPAN 3P98

**Contemporary Chronicle and Testimonial Writing**

Historiography, collective memory versus official history, relation of past to future, oral history and its transcription into testimonial literature.

*Lectures, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

## SPAN 3Q90

**Golden Age**

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, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

Completion of this course will replace previous assigned grade in SPAN 3P92 and 3P93.

## SPAN 3Q92

**Advanced Grammar and Communication I**

Syntactic analysis and principles. Concepts of semantics and style. Applications to advanced writing and oral practice of the Spanish language.

*Lectures, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

Completion of this course will replace previous assigned grade in SPAN 3P90.

## SPAN 3Q93

**Advanced Grammar and Communication II**

Further studies in syntactic analysis and principles. Concepts of semantics and style. Further applications to advanced writing and oral practice of the Spanish language.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 3Q92 or permission of the instructor.

## # SPAN 3Q94

**Revolution in Latin America**

(also offered as HIST 3Q94)

Social, economic and intellectual roots of revolutions in Mexico, Bolivia, Guatemala, Cuba and Nicaragua. The seminal role of the Mexican Revolution.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SPAN (single or combined) and HIST (single or combined) majors until date specified in Registration guide.

Prerequisites: HIST 2P08 and 2P09 (3F81) or permission of the instructor.

Note: given in English. Spanish majors must complete written assignments in Spanish.

Completion of this course will replace previous assigned grade in HIST 3P94.

## \* 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. Authors may include, Boulosa, Kahlo, Navarro, Parra and PiZón.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of SPAN 2P20 and 2P21 (2F10), WISE 1F90 or permission of the instructor.

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

## 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, seminar, 3 hours per week.*

Prerequisite: 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, seminar, 3 hours per week.*

Prerequisites: SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

## SPANISH

SPAN 4V60-4V69

### **Special Research Topics in Spanish Literature**

Course content will vary, depending upon the interests of instructors and students.

*Lectures, seminar, 3 hours per week.*

Prerequisites: two SPAN credits numbered 3(alpha)00 or above.

# Sport Management

## Chair

Lucie Thibault

## Associate Professors

Hilary Findlay, Lisa M. Kikulis, Joanne MacLean, Lucie Thibault

## Assistant Professors

Sheri Bradish, Laura Cousens, Craig Hyatt, Julie Stevens

## Lecturers

Chris Chard, Cheryl Mallen, Kirsty Spence

## Undergraduate Co-ordinator

Stephanie Brooks

## General Information

### Administrative Assistant

Charlene MacLellan

905-688-5550, extension 4989

Walker Complex 238

<http://www.brocku.ca/spma/>

The Department of Sport Management offers a four-year (Honours) program and a three-year (Pass) program leading to a Bachelor of Sport Management (BSM).

Programs are designed to meet the needs of a rapidly expanding sport industry and incorporate a series of 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.

New applications to the BSM program are accepted in years 2 and 3. 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 BSM is a limited enrolment program. Admission is not guaranteed by attainment of the minimum requirements.

## Program Notes

1. A minimum 60 percent in each of SPMA 1P91 and 1P92, MGMT 1P51, 1P52, COSC 1P95 and a minimum 60 percent overall average is required to continue as a major in Sport Management or to be considered for admission to the program in years 2 and 3.

2. 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.

3. Entrance to year 4 (honours) requires a minimum 70 percent major average, a minimum 60 percent in the remaining credits and submission of an application by May 1.

4. SPMA majors must take a minimum of one and one-half elective credits outside the Department of Sport Management.

5. In all 20 credit degree programs at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

## Honours Program

### Year 1

- SPMA 1P91 and 1P92
- COSC 1P95
- MGMT 1P51 and 1P52
- one Humanities context credit
- one Science context credit or one Social Science context credit
- one-half elective credit

### Year 2

- SPMA 2P05, 2P06, 2P07, 2P21 and 2P96
- ENTR 2P51 (see program note 2)
- the Science context credit or Social Science context credit not taken in year 1
- one elective credit

### Year 3

- SPMA 3P06, 3P08, 3P21, 3P65 and 3P97
- SPMA 3P07 or 3P17
- two elective credits

### Year 4

- SPMA 4F02 and 4P15 or SPMA 4F05 and 4P92
- two SPMA credits numbered 4(alpha)00 or above
- one and one-half elective credits

## Sport Management Co-op (Honours only)

Year 3 is now closed

### Year 4

- SPMA 4F05 or SPMA 4P15 and one-half SPMA credit numbered 4(alpha)00 or above
- one SPMA credit numbered 4(alpha)00 or above
- three elective credits

## Spring/Summer Sessions:

- SPMA 0N03

## 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 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.

## SPORT MANAGEMENT

*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 in SPMA 1F90.

### 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 in SPMA 1F90.

### 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 (1F90) (minimum 60 percent).

Note: a field experience fee may be charged; consult the Department.

### SPMA 2P04

#### Social Issues in Sport Management

Examination of a range of social issues within sport and the sport industry in Canada and its international context.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SPMA majors until date specified in Registration guide.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (1F90) (minimum 60 percent).

### 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.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (1F90) (minimum 60 percent).

Completion of this course will replace previous assigned grades 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 (1F90) (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: COSC 1P95.

Completion of this course will replace previous assigned grade in PEKN 2P08, RECL 2P07 and TOUR 2P07.

### 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.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (1F90) (minimum 60 percent).

Completion of this course will replace previous assigned grades 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 2P96

#### Introduction to Sport and the Law

Sport-related legal issues and concepts. Topics may include negligence and liability, risk management, human rights, employment and labour law, principles of administrative law.

*Lectures, 2 hours per week; seminar, tutorial, 1 hour per week.*

Restriction: open to SPMA majors.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (1F90) (minimum 60 percent).

Note: students will participate in Sport Court—a moot court exercise.

### 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 (1F90) (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. Not open to SPMA Co-op students.

Prerequisites: SPMA 2P05 and 2P06.

Note: students repeating this course are not guaranteed a placement.

### SPMA 3P06

#### Globalization of Sport

Examination of the tension between global influences in sport management and the resurgence of nationalism. Global images in race, gender, sexuality, and disability.

*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**

Quantitative means of understanding, evaluating and interpreting statistical information.

*Lectures, lab, 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 in CHSC 3Q07, PEKN 3P08, ECL 3Q07 and TOUR 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**

Theories, approaches, designs, methods and procedures for conducting evaluative analyses.

*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 2P07.

Completion of this course will replace previous assigned grade in CHSC 3Q17, PEKN 3P18, RECL 3Q17 and TOUR 3Q17.

## SPMA 3P21

**Managing Human Resources in Sport Organizations**

Theories, research and current practices emphasizing the fundamentals of managing individuals and groups. Selected topics may include leadership, volunteer recruitment and management, motivation, problem solving, conflict resolution and organizational change.

*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 2P21.

Completion of this course will replace previous assigned grade in OBHR 2P51, 2P52 and RECL 3P20.

## 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.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (1F90) (minimum 60 percent).

Completion of this course will replace previous assigned grade in SPMA 3P95, MKTG 2P51, 2P52, 4V92, MKTG (OEVI) 4P92, OEVI 4V92 and RECL (TOUR) 3P40.

## 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 (3P95).

## 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 (3P95).

## SPMA 3P86

**Law and Commercial Transactions in Sport**

Identifying and protecting commercial assets of a sport organization, including personality rights, intellectual property, and commercial transactions. Introduction to drafting and reviewing legal 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 (1F90) (minimum of 60 percent).

Note: a site visit fee may be charged; Consult the Department.

Completion of this course will replace previous assigned grade in SPMA 3V90.

## SPMA 3P97

**Financial Practices in Sport Management**

Topics include public and private sector funding, economic impact analysis, accounting and budgeting, sponsorship, partnerships and fundraising related to sport and sport organizations.

*Lectures, 3 hours per week.*

Restriction: open to SPMA majors who have a minimum of 8.0 overall credits.

Prerequisite: SPMA 1P91 (minimum 60 percent) and 1P92 (1F90) (minimum 60 percent).

## SPMA 3P99

**Special Studies in Sport Management**

Directed study in specialized areas of sport management.

Restriction: open to SPMA majors with a minimum of 8.0 overall credits and permission of the instructor.

## 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 4F02

**Sport Management Internship**

Placement in a sport or sport-related organization.

*Tutorial, 2 hours alternating weeks; plus minimum of 160 hours field work.*

## SPORT MANAGEMENT

Restriction: open to SPMA majors with approval to year 4 (honours) and permission of the instructor. Not open to SPMA Co-op students.

Note: admission is based on application and interview. Applications available at <http://www.brocku.ca/spma> and must be submitted by May 30th.

### SPMA 4F05

#### Honours Research Thesis

Analysis of research assumptions and methodologies in sport management, including a research thesis 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 approval to year 4 (honours) and permission of the instructor.

Prerequisite: SPMA 3P07 or 3P17.

Note: research topic outline must be submitted by May 30th and be approved by the instructor.

Topic submission form available at <http://www.brocku.ca/spma>.

Completion of this course will replace previous assigned grade in SPMA 4P04 and 4P05.

### SPMA 4P06

#### Application of Economics to Sport Management.

Topics may include principles of economic development, commercialization, labour policy and social impacts.

*Lectures, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

### 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 approval to year 4 (honours).

### 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.

*Lectures, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

Completion of this course will replace previous assigned grade 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 approval to year 4 (honours).

### 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 approval to year 4 (honours).

### SPMA 4P12

#### Gender in Sport Management

Examination of gender issues as an integral part of sport organizations' persistence to under representation of marginalized groups.

*Seminar, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

Completion of this course will replace previous assigned grade in PEKN 4P95 and WISE 4P95.

### SPMA 4P15

#### Sport Management Research

Applied research emphasizing sport management issues in the community. Team-based approaches to research processes.

*Lectures, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

Prerequisite: SPMA 3P07 or 3P17.

### SPMA 4P21

#### Performance Management in Sport Organizations

Theoretical and practical foundations of managing performance in sport organizations emphasizing perspectives of employee performance, strategic human resource planning and the analysis of performance problems.

*Lectures, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

### 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 approval to year 4 (honours).

### SPMA 4P86

#### Legal Drafting and Contract Analysis for Sport Management

Introduction to drafting techniques, analysis of the structure and use of basic contracts by the sport manager including employment contracts, contracts for services, athlete agreements, sponsorship contracts, and licensing and sale agreements.

*Lectures, tutorial, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

### 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 approval to year 4 (honours) and permission of the instructor. Not open to SPMA Co-op students.

Note: admission is based on application and interview. Applications available at <http://www.brocku.ca/spma> and must be submitted by May 30th.

### SPMA 4P95

#### Advanced Sport Marketing Seminar

Historical, contemporary, and future issues and trends in sport marketing.

*Lectures, cases, discussion, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

Prerequisite: SPMA 3P65 (3P95).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in SPMA 4V95.

### 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 approval to year 4 (honours).

Completion of this course will replace previous assigned grade in SPMA 4V96.

SPMA 4P99

**Advanced Special Studies in Sport Management**

Advanced directed study in specialized areas of sport management.

Restriction: open to SPMA majors with approval to year 4 (honours) and permission of instructor.

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 approval to year 4 (honours).

**CO-OP COURSE**

SPMA 0N03

**Co-op Work Placement III**

Third co-op work placement (4 months) with an approved employer.

Restriction: open to SPMA Co-op students.

# Studies in Arts and Culture

*Director*  
Derek Knight

*Undergraduate Officer*  
Sally Hickson

Co-operating faculty from:  
Canadian Studies, Communications, Popular Culture and Film, Dramatic Arts, Music, Physical Education and Kinesiology, and Visual Arts

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## General Information

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*Administrative Assistant*  
Monika Lederich

905-688-5550, extension 3214  
Thistle west 135  
<http://www.brocku.ca/artsandculture>

The Centre for Studies in Arts and Culture, part of the 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 endeavors from the perspective of both the cultural producer and the audience. Through the critical analysis of works of art, dance, film, music or theatre, 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, digital image, 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.

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## Language Requirement for Humanities Majors

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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 fulfill this requirement by year 2.

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## Program Note

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1. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

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## Honours Program

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### *Year 1*

- Two credits from DART 1F93, MUSI 1F00, 1F10, VISA 1F98
- one credit from CANA 1F91, COMM 1F90, FILM 1F94
- one language credit (see language requirement)
- one Science context credit or one Social Science context credit

### *Year 2*

- Three credits from CANA 2P91, 2P92, DART 2F94, DART 2P96 and 2P97, PEKN 2P06, STAC 2P90, VISA 2F26, 2P50, 2P51, 2P90, 2P91, 2Q98
- one credit from COMM 2F92, 2P54, 2P56, PCUL 2P20, 2P21

- the Science context credit or Social Science context credit not taken in year 1

### *Year 3*

- Two credits from STAC 4F40, DART 3F94, MUSI 3P95, PEKN 3P06, 3P76, STAC 3V90-3V99, VISA 3P05, 3P06
- one credit from FILM 2P95, 3P20, 3P21, 3P93 and 3P95 or 3P97 and 3P98
- two elective credits

### *Year 4*

- STAC 4F40
- three credits from STAC 4F99, DART 4F90, MUSI 3P95, PEKN 4P06, 4P13, VISA 3P90, 3P91
- one credit from COMM 3P92, FILM 3P93 and 3P95 or 3P97 and 3P98, 4P30, 4P31, PCUL 3P96

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## Pass Program

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Satisfactory completion of the first three years of the honours program entitles students to apply for a Pass degree.

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## Minor in Studies in Arts and Culture

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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, MUSI 1F00, 1F10, VISA 1F98
- one credit from DART 2F94, DART 2P96 and 2P97, PEKN 2P06, 3P06, STAC 2P90, VISA 2P50, 2P51
- one credit from STAC 4F40, DART 3F94, MUSI 3P95, PEKN 3P76, 4P06, 4P13, STAC 4F40, 3V90-3V99, VISA 3P90, 3P91



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Description of Courses

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Note that not all courses are offered in every session. Refer to the applicable term timetable or details.

† Indicates a cross listed course  
‡ Indicates primary offering of a cross listed course

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Prerequisites and Restrictions

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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 2P90  
Critical Practice in the Fine and Performing Arts

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 1P93, MUSI 1F50, PEKN 3P76, VISA 1P98.  
Note: event attendance is required; events fees required.

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 3V90  
2005-2006: Ecologies of Space  
How space and environment influence artistic creation, both in theory and in practice. Theoretical constructions of space and environment emphasizing found spaces, culminating in individual or collective performance/installation.  
*Lectures, seminar, workshops, 3 hours per week.*  
Restriction: minimum of 10.0 overall credits and permission of the instructor.  
Note: limited to 15 students per section; materials fee may be required.

\* STAC 4F40  
Arts Administration  
(also offered as DART 4F40 and VISA 4F40)  
Development, organization and management of the arts.  
*Lectures, 3 hours per week.*  
Restriction: students must have a minimum of 10.0 overall credits.  
Note: materials fee may be required.  
Completion of this course will replace previous assigned grade in CCST 4F40.

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.

# Tourism Studies

This program is offered through the Department of Recreation and Leisure Studies

## Co-ordinator

Atsuko Hashimoto

## Undergraduate Program Adviser

Michael Fawkes

## Participating Faculty

Martha Barnes, (Recreation and Leisure Studies), Corrado Federici (Modern Languages, Literatures and Cultures), David A. Fennell (Recreation and Leisure Studies), Scott Forrester (Recreation and Leisure Studies), Dan Glenday (Sociology), Ann Marie Guilmette (Recreation and Leisure Studies), Atsuko Hashimoto (Recreation and Leisure Studies), Colleen Hood (Recreation and Leisure Studies), Peggy Hutchison (Recreation and Leisure Studies), Paula Johnson Tew (Recreation and Leisure Studies), Suzie Lane (Recreation and Leisure Studies), Michael Lück (Recreation and Leisure Studies), Eli Levanoni (Management, Marketing and Human Resources), John Middleton (Environment), George S. Nogradi (Recreation and Leisure Studies), Ryan Plummer (Recreation and Leisure Studies), Steven Renzetti (Economics), Erin Sharpe (Recreation and Leisure Studies), Shalini Singh (Recreation and Leisure Studies), David J. Telfer (Recreation and Leisure Studies)

## General Information

### Administrative Assistant

Sandra Notar

905-688-5550, extension 3259

Academic South 357

<http://www.brocku.ca/tourism/>

The Department of Recreation and Leisure Studies offers four-year programs of study leading to a Bachelor of Tourism Studies Honours degree and a Bachelor of Tourism Studies with Major. The requirement for graduation with a Bachelor of Tourism Studies Honours degree is a minimum 70 percent major average and a minimum 60 percent non-major average in the remaining credits. The requirement for graduation with a Bachelor of Tourism Studies with Major degree is a minimum 60 percent major average and a

minimum 60 percent overall average. Students are also able to combine the Tourism Studies Degree with a Minor in International 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 International Studies section of the calendar.

An interdisciplinary approach to the study of tourism. Students must select a program in either Tourism Administration or Tourism Planning and Development.

The Tourism Administration program provides opportunities for students to pursue tourism careers such as supervisors and managers in: guest services, attractions, transportation, recreation facilities and travel services such as tour operations and travel agency management, visitor and convention bureaus, and is designed to qualify graduates for a wide range of positions in both the public and private sectors.

The Tourism Planning and Development program is designed for students pursuing careers such as economic development officers, planning consultants in local organizations to multinational corporations and municipal, provincial or national government agencies. This program combines elements of recreation and leisure studies, environmental studies and geography to examine aspects of tourism planning and development in depth.

## Program Notes

1. A minimum grade of 60 percent in TOUR 1P91 and 1P98 is required to continue as a major in Tourism.
2. ERSC 1F90 or GEOG 1F91 is recommended as the Science context credit and INTL 1F90 or CANA 1F91 is recommended as the Humanities context credit. In the Administration program, ECON 1P91 and 1P92 are recommended as the Social Science context credit. In the Planning and Development program, GEOG 1F90 or ENVI 1P90 and ENVI 1P91 are recommended as the Social Science context credit (students taking GEOG 1F90 are not eligible to take GEOG 1F91 as the Science context credit).
3. FREN 1F90, 1P01, 1P02, 1P03; GERM 1F00, 1F90; ITAL 1F00, 1F01, 1F90; JAPA

1P00, 1P01, 1P80, 1P81; MAND 1P00, 1P01, 1P80, 1P81; SPAN 1F00, 1F90; PORT 1F00, 1F90; RUSS 1F00 are approved language courses.

4. TOUR 3V10-3V99; LABR 1P91, 1P92, 2P32; ENTR courses; RECL 2P10, 3P10, 3P20; OBHR 2P51; WRIT 1P94; APLS 1P90; ACTG and MKTG courses are recommended electives for the Tourism Administration program.

5. TOUR 2P42, 2P94, 3P49, 3V10-3V99, 4P21; ENVI courses; GEOG 2P91, 3P45, 3P60, 3P83; WRIT 1P94 are recommended electives for the Tourism Planning and Development program.

6. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above.

## Honours Program

### Tourism Administration

#### Year 1

- TOUR 1P91 and 1P98
- COSC 1P95
- MGMT 1P51 and 1P52
- one-half RECL credit
- one Humanities context credit or one Science context credit (see program note 2)
- one Social Science context credit (see program note 2)

#### Year 2

- TOUR 2P07, 2P18, 2P28 and 2P41
- the Humanities or Science context credit not taken in year 1 (see program note 2)
- one language credit (see program note 3)
- one elective credit (see program note 4)

#### Year 3

- TOUR 3P28, 3P38, 3P40 and 3P78
- TOUR 3Q07 or 3Q17
- one-half TOUR credit numbered 2(alpha)90 or above
- RECL 3P50
- one-half RECL credit numbered 2(alpha)90 or above
- one elective credit (see program note 4)

#### Year 4

- TOUR 4F17, 4P18, 4P28 and 4P38

one-half TOUR or RECL credit numbered 2(alpha)90 or above  
two elective credits

### Tourism Planning and Development

#### Year 1

TOUR 1P91 and 1P98

COSC 1P95

MGMT 1P51 and 1P52

one-half RECL credit

one Humanities context credit or one Science context credit (see program note 2)

one Social Science context credit (see program note 2)

#### Year 2

TOUR 2P07, 2P18, 2P28 and 2P41

the Humanities context credit or Science context credit not taken in year 1 (see program note 2)

one language credit (see program note 3)

one elective credit (see program note 5)

#### Year 3

TOUR 3P18, 3P40, 3P66, 3P78

TOUR 3Q07 or 3Q17

TOUR 3P65 or 3P68

one-half TOUR credit numbered 2(alpha)90 or above

one-half RECL credit numbered 2(alpha)90 or above

one elective credit (see program note 5)

#### Year 4

TOUR 4F17, 4P18, 4P28 and 4P38

one-half TOUR or RECL credit numbered 3(alpha)90 or above

two elective credits (see program note 5)

### Bachelor of Tourism Studies with Major

This program differs from the Honours program in that it does not require the independent research project nor honours standing.

### Tourism Administration

#### Year 1

TOUR 1P91 and 1P98

COSC 1P95

MGMT 1P51 and 1P52

one-half RECL credit

one Humanities context credit or one Science context credit (see program note 2)

one Social Science context credit (see program note 2)

#### Year 2

TOUR 2P07, 2P18, 2P28 and 2P41

the Humanities or Science context credit not taken in year 1 (see program note 2)

one language credit (see program note 3)

one elective credit (see program note 4)

#### Year 3

TOUR 3P28, 3P38, 3P40 and 3P78

RECL 3P50

one TOUR credit numbered 2(alpha)90 or above

one-half RECL credit numbered 2(alpha)90 or above

one elective credit (see program note 4)

#### Year 4

TOUR 3F95, 4P03, 4P18, 4P28 and 4P38

two elective credits (see program note 4)

### Tourism Planning and Development

#### Year 1

TOUR 1P91 and 1P98

COSC 1P95

MGMT 1P51 and 1P52

one-half RECL credit

one Humanities context credit or one Science context credit (see program note 2)

one Social Science context credit (see program note 2)

#### Year 2

TOUR 2P07, 2P18, 2P28 and 2P41

the Humanities context credit or Science context credit not taken in year 1 (see program note 2)

one language credit (see program note 3)

one elective credit (see program note 4)

#### Year 3

TOUR 3P18, 3P40, 3P66 and 3P78

TOUR 3P65 or 3P68

one TOUR credit numbered 2(alpha)90 or above

one-half RECL credit numbered 2(alpha)90 or above

one elective credit (see program note 5)

#### Year 4

TOUR 3F95, 4P03, 4P18, 4P28 and 4P38

two elective credits (see program note 5)

### 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:

TOUR 1P91, 1P98 and 3P78

TOUR 2P18 or 2P28

two credits from TOUR 2P41, 3P18, 3P28, 3P38, 3P40, 3P48, 3P65, 3P66, 3P68, 3P88, 3P96, 3P98, 3V10-3V99

one of TOUR 4P18, 4P28, 4P38

### Brock/Niagara College Articulation Agreement

Niagara College Tourism diploma graduates who have achieved a minimum 70 percent overall average will be granted up to seven and one-half credits, as determined by the Office of the Registrar, towards their Bachelor of Tourism Studies 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.

# TOUR 1P91

#### Introduction to Leisure Studies

(also offered as RECL 1P91)

Nature, significance and theories of recreation, leisure, and tourism, participation and opportunities for involvement and

## TOURISM STUDIES

experiences, resource management, delivery and facilitation structures.

*Lectures, seminar, 3 hours per week.*

Restriction: open to TOUR AND RECL majors until date specified in Registration guide.

### # TOUR 1P98

#### **Introduction to Tourism**

(also offered as RECL 1P98)

Socio-cultural, environmental and economic impact of tourism. Elements drawn from recreation, sociology, psychology, geography, economics and business.

*Lectures, seminar, 3 hours per week.*

Restriction: open to TOUR and RECL majors. Prerequisite: TOUR 1P91 or permission of the instructor.

Note: students minoring in Tourism Studies may register. Contact the Recreation and Leisure Studies Department.

### # TOUR 2P07

#### **Introduction to Research Design and Evaluation**

(also offered as RECL 2P07)

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 TOUR and RECL majors. Prerequisite: COSC 1P95 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHSC 2Q07, PEKN 2P08 and SPMA 2P07.

### # TOUR 2P18

#### **Tourism Industry Operations**

(also offered as RECL 2P18)

Foundations of tourism service delivery systems. The interactive relationships and operational aspects of public and private travel tourism systems in Canada and around the world.

*Lectures, seminar, 3 hours per week.*

Prerequisite: TOUR 1P98 or permission of the instructor.

Note: field experience fee will be charged for a one day field trip; consult the Department.

### TOUR 2P28

#### **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.

*Lecture, seminar, 3 hours per week.*

Restriction: open to TOUR majors.

Prerequisite: TOUR 1P98.

Note: students minoring in Tourism Studies may register. Contact the Recreation and Leisure Studies Department.

### # TOUR 2P41

#### **Economics of Tourism and Leisure Activities**

(also offered as ECON 2P41 and RECL 2P41)

Introduction to the economic analysis of the tourism industry. Determinants of the demand and supply for tourism and recreation; impacts 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 students with a minimum of 4.0 credits. Not open to ECON (single or combined) majors, BBE or ENEC students.

### # TOUR 2P42

#### **Biodiversity Conservation**

(also offered as ENVI 2P42)

Conservation of species and ecosystems in ecological, social and economic contexts. Co-existence of humans and wild life in parks, reserves, zoos and productive landscapes.

*Lectures, seminar, field work, 3 hours per week.*

Restriction: students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in TOUR (ENVI) 2P92.

### # TOUR 2P94

#### **Global Conventions on Environment and Development**

(also offered as ENVI 2P94 and INTL 2P94)

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.

*Workshop, seminar, 3 hours per week.*

Prerequisites: ENVI 1P90 and 1P91, INTL 1F90 (1P95) and MATH 1P98 or permission of the instructor.

### # TOUR 3F95

#### **Leisure Services Field Work**

(also offered as RECL 3F95)

Theoretical principles of workplace culture in recreation and tourism service organizations focussing on strategies for entry into the profession and behaviour related to successful performance in the workplace. Enhancement of professional development in recreation and tourism organizations. Practical experiences in

specific recreation and tourism organizations.

Restriction: open to TOUR and RECL majors with a minimum of 9.5 overall credits.

Note: additional course fee will be charged, consult the Department.

Completion of this course will replace previous assigned grade in TOUR (RECL) 3P05, 3P95, 3P99 and 4F05.

### # TOUR 3P18

#### **Tourism Planning and Development**

(also offered as RECL 3P18)

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: students must have a minimum of 7.0 overall credits.

Prerequisite: TOUR 1P98 (2P08).

### # TOUR 3P28

#### **Tourism Distribution Channels**

(also offered as RECL 3P28)

Nature and scope of distribution channels for tourism products and related issues in the creation of destination images.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: TOUR 2P18, 2P28 or permission of the instructor.

### # TOUR 3P38

#### **Strategic Management in Tourism**

(also offered as RECL 3P38)

Theories, principles and practices in tourism management. Growth management principles; analyses of globalization of competitive environments, corporate strategies for small firms to multinational corporations, visitor management techniques and quality issues.

*Lectures, 3 hours per week.*

Prerequisite: TOUR 2P18, 2P28 or permission of the instructor.

### # TOUR 3P40

#### **Marketing in Tourism and Recreation Service Organizations**

(also offered as RECL 3P40)

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.*

Prerequisites: TOUR 2P18 or RECL 2P10; TOUR 2P07 or permission of the instructor.

Completion of this course will replace previous assigned grade in MKTG 2P51 and 2P52.

# TOUR 3P48

### **Tourism and Recreation in Marine Environments**

(also offered as RECL 3P48)

History and current issues related to sectors of marine tourism. Case-study based analysis of theory and critical aspects of marine tourism operations.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 5.0 overall credits.

Prerequisite: TOUR 1P98, RECL 1P96 or permission of the instructor.

Note: field experience fee will be charged for a one-day field trip; consult the Department.

Completion of this course will replace previous assigned grade in TOUR 3V48.

# TOUR 3P49

### **Gender and Environment**

(also offered as ENVI 3P49 and 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 TOUR, ENVI and WISE (single or combined) majors and ENVI certificate students.

Prerequisite: one of ENVI 1P90, 1P91, WISE 2P90, 2P91 or permission of the instructor.

Note: students minoring in Environmental studies or Women's Studies may register. Contact the Centre for the Environment.

# TOUR 3P65

### **Geography of Rural Development and Tourism**

(also offered as GEOG 3P65)

Provides overview of tourism as it intersects with rural development theory, processes and planning. Examines 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 TOUR and GEOG (single and combined) majors until date specified in Registration guide.

Prerequisite: TOUR 1P98, GEOG 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in TOUR (GEOG) 3V60.

# TOUR 3P66

### **Ecotourism**

(also offered as RECL 3P66)

Importance of ecotourism as a global phenomenon. Analysis of ecotourism as it relates to sustainability and other forms of alternative tourism, including impacts, risk management, programming, tour operation, ethics, development, marketing and parks management.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: TOUR 1P98 or RECL 1P96 or permission of the instructor.

Completion of this course will replace previous assigned grade in TOUR (RECL) 3V66.

# TOUR 3P68

### **Heritage Tourism**

(also offered as RECL 3P68)

Built, natural and cultural resources for heritage tourism destinations on a variety of scales from World Heritage Sites to countryside and rural tourism attractions. Regional identities and environments and the importance of small and medium sized enterprises.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 7.0 overall credits.

Prerequisite: TOUR 1P98.

Completion of this course will replace previous assigned grade in TOUR (RECL) 3V68.

# TOUR 3P78

### **International Tourism**

(also offered as RECL 3P78)

Changes in power relations, environment, society and economy through the globalization of tourism. Human rights and other critical issues of international tourism.

*Lectures, 3 hours per week.*

Prerequisite: TOUR 2P18, 2P28 or permission of the instructor.

TOUR 3P88

### **Tourism Field Course**

Investigations into tourism through the examination of site developments including major functions, planning issues, institutions, peoples and internal spatial structures.

*Lectures, seminar, fieldwork.*

Restriction: students must have a minimum of

7.0 overall credits.

Prerequisites: TOUR 1P98 and 2P07 or permission of the instructor.

Note: Orientations begin in January to design and plan a one-week field trip in a selected area departing in early May. Additional expenses will be incurred depending on destination selected.

# TOUR 3P96

### **Ethics in Outdoor Recreation and Tourism**

(also offered as RECL 3P96)

Exploration of values and moral development relating to outdoor recreation and tourism.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 9.5 overall credits.

Prerequisite: RECL 1P96, TOUR 1P98 or permission of the instructor.

# TOUR 3P98

### **Issues in Sustainable Community Recreation and Tourism**

(also offered as RECL 3P98)

Understanding, developing, and initiating sustainable practices for community recreation and tourism. Applying natural, social and economic issues of sustainability to host environments.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 9.5 overall credits.

Prerequisite: one of TOUR 2P11, 2P28, 2P42, 2P94 or permission of the instructor.

Note: completion of this course will replace previous assigned grade in TOUR 3V98.

# TOUR 3Q07

### **Quantitative Analysis**

(also offered as RECL 3Q07)

Quantitative means of understanding, interpreting and analyzing statistical data and information.

*Lectures, lab, 3 hours per week.*

Restriction: open to TOUR and RECL majors.

Prerequisite: TOUR 2P07.

Completion of this course will replace previous assigned grade in CHSC 3Q07, PEKN 3P08 and SPMA 3P07.

# TOUR 3Q17

### **Qualitative Approaches to Inquiry**

(also offered as RECL 3Q17)

Theories, approaches, designs, methods and procedures for conducting qualitative studies.

*Lectures, seminar, 3 hours per week.*

## TOURISM STUDIES

Restriction: open to TOUR and RECL majors.  
Prerequisite: TOUR 2P07.

Completion of this course will replace previous assigned grade in CHSC 3P37, 3Q17, PEKN 3P18 and SPMA 3P17.

TOUR 3V10-3V99

### Variable Topics in Tourism

Specific topics to be selected.

*Lectures, seminar, 3 hours per week.*

TOUR 4F17

### Independent Research Project

Individual research project carried out under the direction of a faculty adviser.

Restriction: open to TOUR majors with a minimum 70 percent major average, minimum 60 percent non-major average and a minimum of 14.5 overall credits.

Prerequisite: TOUR 3Q07 or 3Q17.

Note: involves submission of a proposal before May 1 prior to entering year 4.

Completion of this course will replace previous assigned grade in TOUR 4P03 or 4P17.

TOUR 4P03

### Directed Project

Development of appropriate and relevant research designs in tourism studies in student's area of interest.

*Lectures, 3 hours per week.*

Restriction: open to TOUR majors with a minimum of 13.5 overall credits or permission of the instructor.

Prerequisite: TOUR 2P07.

TOUR 4P18

### 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, field trip, 3 hours per week.*

Restriction: open to TOUR and RECL majors with a minimum of 14.5 overall credits.

Prerequisite: TOUR 3P78 or permission of the instructor.

Note: students minoring in Tourism Studies may register. Contact the Recreation and Leisure Studies Department.

Completion of this course will replace previous assigned grade in TOUR 4F01.

Note: field experience fee will be charged for a one-day field trip; consult the Department.

# TOUR 4P21

### Issues of the Global System

(also offered as ENVI 4P21 and INTL 4P21)

Power relationships, economic factors, cultural patterns, globalization, and extra-state phenomena such as pollution and disease. The role and possibilities for leadership, with a view to leadership development.

*Seminar, 3 hours per week.*

Restriction: students must have a minimum 14.0 overall credits or permission of the instructor.

TOUR 4P28

### Contemporary Issues in Tourism Services

Issues and concerns related to administration and management of tourism services.

*Lectures, 3 hours per week.*

Restriction: open to TOUR and RECL majors with a minimum of 14.5 overall credits.

Prerequisite: TOUR 3P78 or permission of the instructor.

Note: students minoring in Tourism Studies may register. Contact the Recreation and Leisure Studies Department.

Completion of this course will replace previous assigned credit in TOUR 4F01.

TOUR 4P38

### Destination Management

Complex relationships between different sectors of tourism, tourism destination planning organizations and local communities through the use of case studies from Canada and elsewhere.

*Lectures, 3 hours per week.*

Restriction: open to TOUR and RECL majors with a minimum of 14.5 overall credits.

Prerequisite: TOUR 3P78 or permission of the instructor.

Note: students minoring in Tourism Studies may register. Contact the Recreation and Leisure Studies Department.

## Visual Arts

### Chair

Derek Knight  
Sean Bridge (as of July 1, 2005)

### Associate Professors

Derek Knight, Murray Kropf, Meri Jean Morrissey

### Assistant Professors

Sean Bridge, Sally Hickson

### Part-time Instructors

Janis Barlow, Judith Marquis

### Visiting Artist

Amanda Burk

### Slide Librarian and Collections Co-ordinator

Lesley Bell

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## General Information

### Administrative Assistant

Monika Lederich

905-688-5550, extension 3214

Thistle west 135

<http://www.brocku.ca/visualarts>

The Department of Visual Arts, part of the 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 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. Students are assisted 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.

### 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.

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## 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.

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## Program Notes

- Context credits and language requirement must normally be completed within the first 10 credits.
- 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 3 Year (Pass) degree: VISA 3M20-3M29, 3P22, 3P23, 3P24, 3P25, 3P26, 4P13, 4P14.
- Students who do not have the necessary prerequisites for studio courses (VISA 1P93, 1P94, 1P96, 1P97, 2F05, 2F26, 2F95, 2F96, 2P02, 2P03, 2P93, 2P94, 3F96, 3P93, 3P94, 3P95, 3P96, 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.
- 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.
- Non-majors may enrol in a maximum of one VISA studio course without a portfolio.
- Portfolio evaluation and interview are required for admission to the Visual Arts Program. Portfolio evaluations are held during April and May. Contact the Department for further information.

## VISUAL ARTS

7. Students wishing to take VISA 3F99, 4F06 or 4F99 must have a minimum 75 percent major average and permission of the Department. Proposals are normally submitted by May 1 of each year.

8. In all 20 credit degree programs, at least 12 credits must be numbered 2(*alpha*)00 or above, six of which must be numbered 2(*alpha*)90 or above and of these, three must be numbered 3(*alpha*)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(*alpha*)00 or above, three of which must be numbered 2(*alpha*)90 or above.

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### Honours Program

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#### Year 1

- VISA 1F98, 1P93, 1P94, 1P96 and 1P97
- one Science context credit
- one elective credit

#### Year 2

- VISA 2P93 and 2P94, or VISA 2F96
- one credit from VISA 2F05, 2F26, 2F95, 2F99, 2M90-2M99, 2P02, 2P03
- one credit from VISA 2P40, 2P41, 2P50, 2P51, 2P90, 2P91, 2Q98, 3M00-3M04, 3P22, 3P23, 3P24, 3P25, 3P26
- one language credit (see language requirement)
- one Social Science context credit

#### Year 3

- VISA 3F96 or VISA 3P93 and 3P94
- VISA 3P05 and 3P06 or VISA 3P90 and 3P91
- one credit from VISA 3M90-3M95, 3P95, 3P96
- one VISA studio credit
- one elective credit

#### Year 4

- VISA 3P90 and 3P91
- two credits from VISA 3P93, 3P94, 3F96, 4F06
- two elective credits (VISA 4F40 recommended)

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### Concurrent BA/BEd Program

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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.

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### Pass Program

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#### Year 1

- VISA 1F98, 1P93, 1P94, 1P96 and 1P97
- one Science context credit
- one elective credit

#### Year 2

- one credit from VISA 2F05, 2F26, 2F95, 2P02, 2P03
- one credit from VISA 2F96, 2M90-2M99, 2P93, 2P94
- one Social Science context credit
- one language credit (see language requirement)
- one elective credit

#### Year 3

- VISA 3P95 and 3P96, or one elective credit
- one credit from VISA 2P40, 2P41, 2P50, 2P51, 2P90, 2P91, 2Q98, 3M00-3M04, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25, 3P26, 3P90, 3P91
- one VISA studio credit
- two elective credits

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### Combined Major Program

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A student in Visual Arts may combine either an Honours or 3 Year (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 1F98, 1P93, 1P94, 1P96 and 1P97
- four VISA credits

### Pass

- VISA 1F98
- four VISA credits

### BSc (Honours) Computer Science and Visual Arts

Consult the Computer Science entry for a listing of program requirements.

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### Concentration in Curatorial Studies

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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 Visual Arts:

- VISA 1F98
- three credits from VISA 2P50, 2P51, 2P90, 2P91, 3P05, 3P06, 3P90, 3P91
- VISA 3P40, 3P41, 4F40

The words "Concentration in Curatorial Studies" will be added to a student's official transcript when the student graduates with a BA (Honours) in Visual Arts having completed the above listed requirements.

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### Minor in Art History

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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 1F98
- two credits from VISA 2P50, 2P51, 2P40, 2P90, 2P91, 2Q98, 3P22, 3P23, 3P24, 3P25, 3P26
- one credit from VISA 3P05, 3P06, 3P90, 3P91, 4P13, 4P14



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**Course Descriptions**


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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

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**Prerequisites and Restrictions**


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Students must check to ensure that prerequisites are met. Students may be preregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

**VISA 1F98**

**Introduction to the History of Art: from Prehistory to the Present**  
(also offered as GBL 1F98)

Critical survey of major styles in architecture, sculpture and painting from antiquity to the 20th century. Principal monuments, buildings or studio artifacts, their period characteristics, the artist's cultural role and the critical or theoretical trends that have influenced our reading of the history of art.

*Lectures, seminar, 3 hours per week.*

Note: no studio work. Materials fee required. Completion of this course will replace previous assigned grade in VISA 1F90.

**VISA 1P93**
**Introduction to Drawing**

Fundamental principles of drawing. Analytic, creative and graphic notation.

*Lectures, studio work, 5 hours per week.*

Restriction: open to students admitted to VISA or VISA (single or combined) majors.

Note: portfolio assessment required prior to registration. Enrolment limited to 24 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 students admitted to VISA or VISA (single or combined) majors.

Prerequisite: VISA 1P93.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply.

**VISA 1P96**
**Foundation Studio**

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 students admitted to VISA, or VISA (single or combined) majors.

Prerequisite: permission of instructor.

Note: portfolio assessment required prior to registration. Enrolment limited to 18 students in studio courses. Materials fee required. Students might need additional materials, which they must supply.

**VISA 1P97**
**Studio Now: Introduction to Contemporary Practice**

The making, thinking and language of contemporary art from the perspective of the studio practitioner. Exploration of the dynamics between contemporary art practice and theory. Emphasizing 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 students admitted to VISA, or VISA (single or combined) majors.

Prerequisite: VISA 1P96.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

**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 24 students. Materials fee required. Students might need additional materials, which they must supply.

**VISA 2F26**
**Introduction to Photography**

Fundamentals of the camera, the exposure and processing of black and white film and basic darkroom printing emphasizing non-silver and alternative processes and their relationship to other art forms. Reference to the history of photography, critical analysis and photographic theory will supplement group critiques.

*Lectures, studio work, off-campus visits, 10 hours per week.*

Restriction: open to VISA (single or combined) majors until date specified in Registration guide.

Prerequisite: VISA 1P97 or permission of the instructor.

Note: offered in spring session only. Enrolment limited to 15 students. Materials fee required. Students might need additional materials, which they must supply.

**\* VISA 2F95**
**Introduction to Digital Imaging**

(also offered as COMM 2F95)

Basic concepts in two-dimensional image creation and manipulation for print and the web. Systematic overview and project-based application of fundamental graphic software including Photoshop, Illustrator, PageMaker, Flash and Dreamweaver.

*Lectures, lab, 5 hours per week.*

Restriction: open to VISA (single or combined) or COMM (single or combined) majors until date specified in Registration guide.

Prerequisite: VISA 1P97, COMM 1F90 or permission of the instructor.

Note: Materials fee required. Students might need additional materials, which they must supply.

**VISA 2F96**
**Interdisciplinary Workshop I**

Currency of multimedia and the influences of interdisciplinary practice on conceptual, video, performance and information art, public projections and site-specific or installation art. Emphasizing collective and individual exhibition practices, alternative spaces, applied technology and critical approaches to institutional, cultural or independent models of art.

*Lectures, studio work, off-campus projects, 5 hours per week.*

Prerequisite: VISA 1P97 or permission of the instructor.

Note: enrolment limited to 18 students. Materials fee required. Students might need additional materials, which they must supply.

## VISUAL ARTS

### # 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 ITAL or VISA credits.

Note: Offered in Italy. 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 I

Fundamentals of painting: introduction to colour theory, media and methods.

*Lectures, studio work, 5 hours per week.*

Restriction: open to VISA (single or combined) majors.

Prerequisites: VISA 1F98 (1F90); VISA 1P94 or 1P97 or permission of the instructor.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply.

### VISA 2P03

#### Painting II

Fundamentals of painting: introduction to the analytic, narrative and expressive concepts of acrylic painting.

*Lectures, studio work, 5 hours per week.*

Restriction: open to VISA (single or combined) majors.

Prerequisite: VISA 2P02.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply.

### # VISA 2P40

#### Early to High Renaissance Art and Architecture (also offered as ITAL 2P40)

Major monuments, buildings and artworks 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: VISA 1F98 (1F90), ITAL 1F90, or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade in ITAL 2P10.

### 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.*

Prerequisite: VISA 1F98 (1F90) 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.*

Prerequisite: VISA 1F98 (1F90) 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 multi-media.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or permission of the instructor.

### \* VISA 2P90

#### Art in Revolution: 1750-1851 (also offered as GBLS 2Q90)

Art's role and function within the paradigm shifts of the modern world, its relation to politics, social and cultural change. Neoclassicism and the principal movements

leading up to the French Revolution and beyond, Romanticism, Realism and the Industrial Revolution.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or permission of the instructor.

### \* VISA 2P91

#### Modernism, Modernity and Contemporaneity: 1851-1907 (also offered as GBLS 2Q91)

Thematic examination of individuality, contemporaneity and progress in the context of the period's cultural, political and technological changes.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or permission of the instructor.

### 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) majors.

Prerequisite: VISA 1P94.

Note: enrolment limited to 24 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) majors.

Prerequisite: VISA 2P93.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply.

### # VISA 2Q98

#### The Artistic Experience

(also offered as GBLS 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.*

Prerequisite: VISA 1F98, one PHIL credit or permission of the instructor.

\* VISA 3F96

**Interdisciplinary Workshop II**

(also offered as DART 3F96)

Studio workshop for the development of independent projects based on the multi-disciplinary examination of critical discourses with reference to identity, visual culture, representation and the construction of meaning. Projects involve new media exploration, collaboration, collective practice and investigation of alternatives in public dissemination.

*Lectures, studio work, off-campus projects, 5 hours per week.*

Prerequisite: VISA 2F96 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.

Completion of this course will replace previous assigned grade in VISA (CLAS) 4M00-4M09.

# VISA 3M21

**2005-2006: Monumental Rome from Romulus to the Renaissance**

(also offered as CLAS 3M21 and ITAL 3M21) Rome as a city of monuments, from its founding to the Renaissance. The Roman and imperial fora, baths, Colosseum, medieval and Renaissance churches and palaces, including St. Peter's and the Vatican, emphasizing sites as monuments and relics, and for their social function.

Restriction: permission of the Department.

Note: offered in Italy: 4 weeks. Students are expected to pay their own expenses.

Completion of this course will replace previous assigned grade in VISA (CLAS/ITAL) 4M01.

VISA 3M90-3M95

**Special Studies in Visual Arts**

Studies that combine theory and studio.

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.*

Prerequisite: VISA 1F98 (1F90) 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.*

Prerequisite: VISA 1F98 (1F90) or permission of the instructor.

# 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, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97.

# 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, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97.

# VISA 3P24

**Art and Architecture of Early Greece**

(also offered as CLAS 3P24)

Greek art and architecture from the Bronze age through the end of the Archaic period within the framework of historical and cultural change.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97.

# 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: VISA 1F98 (1F90) or one credit from CLAS 1P91, 1P92, 1P93, 1P95, 1P97.

# VISA 3P26

**Art and Architecture of the Byzantine Empire**

(also offered as CLAS 3P26)

Material culture of the Byzantine Empire from its origins in late antiquity to the Ottoman conquest. Monumental mosaic, painting, sculpture, the luxury arts and domestic artifacts within the architectural framework of house, church and city.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one credit from CLAS 1P92, 2P36, 2P38, 2P99.

VISA 3P40

**Methods and Principles of Curating**

The 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.

## VISUAL ARTS

*Lectures, seminar, 3 hours per week.*

Prerequisites: VISA 1F98 (1F90); two credits from VISA 2P50, 2P51, 2P90, 2P91, 3P05, 3P06.

Note: enrolment limited to 15 students.

VISA 3P41

### Approaches to Curatorial Practice

Practical application of methodological and theoretical approaches to curating.

*Workshop, 5 hours per week.*

Prerequisites: VISA 1F98 (1F90); two credits from VISA 2P50, 2P51, 2P90, 2P91, 3P05, 3P06 and 3P40.

Note: enrolment limited to 15 students. Participants may be required to travel to locations other than on campus.

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 1F98 (1F90); two credits from VISA 2P50, 2P51, 2P90, 2P91, 3P05, 3P06 or permission of the instructor.

Note: required for all Honours students in VISA.

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 Honours students in VISA.

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 24 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 24 students. Materials fee required. Students might need additional materials, which they must supply.

VISA 3P95

### Painting III

Approaches to advanced painting using contemporary painting strategies and their dominant critiques. Readings in contemporary practice.

*Lectures, studio work, 5 hours per week.*

Prerequisite: VISA 2P03.

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply. Completion of this course will replace previous assigned grade in VISA 3P02.

VISA 3P96

### Painting IV

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 3P95 (3P02).

Note: enrolment limited to 24 students. Materials fee required. Students might need additional materials, which they must supply. Completion of this course will replace previous assigned grade in VISA 3P03.

VISA 4F06

### Honours Studio

Advanced studio practice from concept to public exhibition. Readings, grant applications, production schedules, exhibition coordination, 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 Administration

(also offered as STAC 4F40 and DART 4F40)  
Development, organization and management of the arts.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 10 overall credits.

Completion of this course will replace previous assigned grade in CCST 4F40 and THEA 4F40

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 4P13

### Art and Archaeology of Cyprus

(also offered as CLAS 4P13)

Cultural history of Cyprus from the Neolithic period through the early Byzantine period, based on the archaeological record. Role of Cyprus in the civilization of the eastern Mediterranean.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one CLAS credit numbered 2(alpha)90 or above or permission of the instructor.

# VISA 4P14

### The Aegean Bronze Age

(also offered as CLAS 4P14)

Development of the Bronze Age cultures of the Aegean Basin from 3000 to 1100 BC. Art and architecture of the Minoans on Crete and the Mycenaeans on the Greek mainland will be stressed.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one CLAS credit numbered 2(alpha)90 or above or permission of the instructor.

# VISA 4V30-4V39

**Topics in Mediterranean Art and Architecture**

(also offered as CLAS 4V30-4V39)

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 1F98 (1F90) or one credit from CLAS 3P22, 3P23, 3P24, 3P25.

VISA 4V35

**2005-2006: Classical Mosaic**

(also offered as CLAS 4V35)

Development of classical mosaic from its origins in the eighth-century B.C. into the late Roman period. Questions of technique and workshop organization, iconographic issues.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) or one credit from CLAS 3P22, 3P23, 3P24, 3P25.

# Women's Studies

## Director

Sharon Abbey, Faculty of Education

## Assistant Professors

Ana Isla, Joanne Wright

## Participating Faculty

Kate Bezanson, (Sociology), Judith Blackwell (Sociology), Maureen Connolly (Physical Education and Kinesiology), June Corman (Sociology), Ann Duffy (Sociology), Ellen Faulkner (Sociology), Amanda Glasbeek (Sociology), Allison Glazebrook (Classics), Ann Marie Guilmette (Recreation and Leisure Studies), Jane Helleiner (Sociology), Colleen Hood (Recreation and Leisure Studies), Catherine Jean Nash (Geography), Heather Lee Kilty (Nursing), Karen Krug (Environment), Suzie Lane (Recreation and Leisure Studies), Ingrid Makus (Political Science), Dolana Mogadine (Faculty of Education), Merijeane Morrissey (Visual Arts), Carmela Patrias (History), Rebecca Raby (Child and Youth Studies), Marilyn Rose (English Language and Literature), Cristina Santos (Modern Languages, Literatures and Cultures), Elizabeth Sauer (English Language and Literature), Shalini Singh (Tourism Studies), Susan Spearey (English Language and Literature), Michelle Webber (Sociology)

## Co-operating Centres and Departments:

Applied Language Studies; Canadian Studies; Chemistry; Child and Youth Studies; Classics; Communications, Popular Culture and Film; Community Health Sciences; Economics; Education; English Language and Literature; Environment; Geography; History; Modern Languages, Literatures and Cultures; Music; Nursing; Physical Education and Kinesiology; Political Science; Psychology; Recreation and Leisure Studies; Sociology; Sport Management; Visual Arts

## General Information

### Administrative Assistant

Barb Alexander

905-688-5550, extension 4330

Mackenzie Chown D332

Women's Studies is an exciting, rapidly expanding interdisciplinary field of study

distinguished by its focus on the diverse experiences of women, past and present. 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 expressions, examine gender politics and activism both local and global, are exposed to 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 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 power relations between women and men.

## Program Notes

1. All honours students are responsible for selecting their own thesis adviser, preferably by the end of year 3.
2. If students are required to do an honours thesis in their co-major discipline they should contact the Director and the Chair of the co-major department/centre to make appropriate arrangements. Students are responsible for selecting their own adviser, preferably by the end of year 3.
3. Students will work independently with their adviser to formulate and execute their thesis. Meetings of all students registered in WISE 4F90 will be held to facilitate completing the thesis projects. Two people will grade each thesis: the adviser and a designate of the Director.

4. Students intending to pursue an Honours degree should take WISE 2P90 and 2P91 in year 2.

5. 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.

6. Courses from other departments may be given a Women's Studies credit. A course outline must be approved by the Director.

7. In all 20 credit degree programs, at least 12 credits must be numbered 2(alpha)00 or above, six of which must be numbered 2(alpha)90 or above and of these, three must be numbered 3(alpha)90 or above. In all 15 credit degree programs, at least seven credits must be numbered 2(alpha)00 or above, three of which must be numbered 2(alpha)90 or above.

## Honours Program

### Year 1

- WISE 1F90
- one Humanities context credit
- one Science context credit (SCIE 1F30 or BIOL 1F25 are recommended)
- two elective credits

### Year 2

- WISE 2P90 and 2P91
- WISE 2P92 or 2P97
- WISE 2P96 or 2P99
- one WISE credit
- two elective credits

### Year 3

- WISE 3P90 and 3P91
- WISE 3P95
- one and one half WISE credits numbered 2(alpha)90 or above
- two elective credits

### Year 4

- WISE 4F90 and 4F91
- one WISE credit numbered 3(alpha)90 or above (see program note 4)
- 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**

**Honours**

*Year 1*

- WISE 1F90
- one credit from the co-major discipline
- one Science context credit (SCIE 1F30 or BIOL 1F25 are recommended)
- one Humanities context credit
- one elective credit

*Year 2*

- WISE 2P90 and 2P91
- WISE 2P92 or 2P97
- WISE 2P96 or 2P99
- two credits from the co-major discipline
- one elective credit

*Year 3*

- WISE 3P90 and 3P91
- one WISE credit (see program note 6)
- two credits from the co-major discipline
- one elective credit

*Year 4*

- WISE 4F90 and 4F91
- one-half WISE credit (see program note 6)
- 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.

**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 at least five credits in WISE with an overall average of 60 percent:

- Two credits from WISE 1F90, 2P00, 2P90 and 2P91
- WISE 2P92 or 2P97
- WISE 2P96 or 2P99
- two WISE credits (see program note 6)

**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 2P00
- one of WISE 2P94, 2P95, 2Q99
- one of WISE 2P61, 2P91, 2Q95
- one of WISE 2P21, 2P86, 2Q90
- one of WISE 3P43, 3P65, 3P96
- one of WISE 3P49, 3P51, 3P71, 3P72
- one additional credit from courses listed above or WISE 1F90.

**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 2P05

**Women Thinkers in Western History**

(also offered as HIST 2P05)

Key women thinkers, including Mary Wollstonecraft, Virginia Woolf and Simone de Beauvoir, examined in historical context emphasizing European and British intellectuals.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE (single or combined) and HIST (single or combined) majors until date specified in Registration guide.

# 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) and SOCI (single or combined) majors until date specified in Registration guide.

Prerequisite: one of WISE 1F90, 2P00, SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# 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) and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: WISE 1F90, SOCI 1F90 or permission of the instructor.

Note: students minoring in Women's Studies

## WOMEN'S STUDIES

or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade in CHYS 3P38.

# 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, with the main focus 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 or permission of the instructor.

WISE 2P91

### **Historical Perspectives on Women**

Western history of ideas and ideologies about women, gender, rationality, reproduction and the body from ancient Greece to the Second Wave.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or permission of the instructor.

# WISE 2P94

### **Women Writers to 1830**

(also offered as ENGL 2P94)

Prose, poetry and drama by women from the 14th to the early 19th century including such writers as Margery Kempe, Katherine Philips, Aphra Behn, Mary Wollstonecraft, and Jane Austen.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

# WISE 2P95

### **Women Writers**

(also offered as ENGL 2P95)

Prose, poetry, drama and novels by women from the Victorian period to the present.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90, one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

\* WISE 2P96

### **Women and Development**

(also offered as INTL 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: WISE 1F90, LABR 1F90 (1P91 and 1P92) or permission of the instructor.

WISE 2P97

### **The Mythical Woman in Legend and Religion**

Status of women and representations of females within Western myth and mainstream religion from Neolithic to contemporary times using feminist frameworks and methodologies. Links between culture, law, education and tradition. Feminist critiques of religious symbolism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or permission of the instructor.

\* WISE 2P99

### **Canadian Women in a Global Context**

(also offered as INTL 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.

\* 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, class, cultural, and racial differences in mothering and motherhood.

*Lectures, 3 hours per week.*

Prerequisite: WISE 1F90 or SOCI 1F90.

Completion of this course will replace previous assigned grade in WISE (SOCI) 2V99.

# WISE 2Q95

### **Women in North America**

(also offered as HIST 2Q95)

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; suffrage and social reform; women and the two World Wars; feminism in the 1960s and 1970s.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE (single or combined) and HIST (single or combined) majors until date specified in Registration guide.

# 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.*

Restriction: open to WISE (single or combined) and HIST (single or combined) majors until date specified in Registration guide.

\* WISE 2Q99

### **Women in World Literature**

(also offered as ENGL 2Q99)

Feminist perspectives on representations of



women and their writings including both English and translated texts.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2P92.

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 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 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 and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: one of WISE 1F90, 2P00, LABR 1F90 (1P91 and 1P92), SOCI 1F90 or permission of the instructor.

Note: students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

WISE 3P41

#### **Directed Studies I**

Guided reading on a topic not covered in regular course offerings.

Restriction: consult the Director regarding permission to register. Students must have a minimum of 8.0 overall credits.

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: consult the Director regarding permission to register. Students must have a minimum of 8.0 overall credits. 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 9.5 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 BA/Bed, CHYS (single or combined) and SOCI (single or combined) majors until date specified in the Registration guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one of WISE 2P90, 2P91, CHYS 2P38, SOCI 2P11 and 2P13.

Completion of this course will replace previous assigned credit in WISE (CHYS/SOCI) 3P92.

# WISE 3P49

#### **Gender and Environment**

(also offered as ENVI 3P49 and TOUR 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), ENVI and TOUR majors and ENVI certificate students.

Prerequisite: one of WISE 2P90, 2P91, ENVI 1P90 and 1P91 or permission of the instructor. Note: students minoring in Women's Studies or Environmental Studies may register. Contact the Centre for the Environment.

# WISE 3P51

#### **Gender and Society**

(also offered as SOCI 3P51)

Gender as an organizing principle in society. The social construction of masculinity and

femininity will be addressed from historical and cross-cultural perspectives. Focus on 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) and SOCI (single or combined) majors until date specified in the Registration guide.

Prerequisite: WISE 1F90, 2P00, SOCI 1F90 or permission of the instructor.

Note: students minoring in Women's Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# WISE 3P57

#### **Psychology of Women**

(also offered as PSYC 3P57)

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.*

Restriction: open to WISE (single or combined) 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 1F90.

Note: students minoring in Psychology may register prior to date specified in Registration guide. Contact the Psychology Department.

Completion of this course will replace previous assigned credit in WISE (PSYC) 2P93 and 3R90.

# 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: WISE 1F90, 2P00, SOCI 1F90 or permission of the instructor.

Note: SOCI 2P57 is recommended. Students

## WOMEN'S STUDIES

minoring in Women's Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### \* 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.*

### # WISE 3P61

#### **Gender and Society in Ancient Greece** (also offered as CLAS 3P61)

Gender as an organizing principle in Archaic and Classical Greece. Emphasis on ancient constructions of femininity and masculinity and their relationships to the social, political and legal systems of Greece. Special topics include the body, sexuality, male and female identities.

*Lectures, seminars, 3 hours per week.*

Prerequisite: one of WISE 1F90, WISE 2P61, CLAS 1P91 or permission of the instructor. Completion of this course will replace previous assigned grade in WISE (CLAS) 2P62.

### 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 until date specified in the Registration guide. Students must have a minimum of 6.0 overall credits.

Note: students minoring in Women's Studies may register prior to date specified in Registration guide. Contact the Centre for Women's Studies.

### # 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 COMM 3P74 and GEOG 3P74)

Work of feminist geographers. Relationships between gender and space with respect to the organization of the city, architecture of the home, design of the shopping mall, the media, fear, homelessness, gentrification and employment.

*Lectures, seminar, 4 hours per week.*

Restriction: open to WISE (single or combined), COMM and GEOG (single or combined) majors until date specified in Registration guide.

Prerequisites: one of WISE 2P90, 2P91, COMM 2P20 and 2P21, GEOG 2P02, 2P03, 2P06 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 sustain ability, biodiversity, eco-tourism, population, consumerism, and environmental management.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) and WISE (single or combined) majors until date specified in Registration guide.

Prerequisite: WISE 1F90, SOCI 1F90 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

### 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 3P93

#### **Gender and Language**

(also offered as LING 3P93)

Survey of major debates concerning language, gender and power in the twentieth century.

*Lectures, seminar, 3 hours per week.*

### WISE 3P95

#### **Experiential Learning in Women's Studies**

Critically and creatively linking, and articulating academic and practical learning experiences in the context of theoretically grounded analysis of volunteer work through participatory pedagogy.

*Seminar, 3 hours alternating weeks; community placements.*

Prerequisite: WISE 2P90 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 and Film**

(also offered as COMM 3P97 and FILM 3P97)  
Construction 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.  
Completion of this course will replace previous assigned grade in FILM 3F97.

## # WISE 3P98

**Gender and Sexuality in Contemporary Cinema**

(also offered as COMM 3P98 and FILM 3P98)  
Representation of gender and sexuality via ideology, feminism, queer theory, and spectatorship in a range of contemporary film and video texts.

*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.

Completion of this course will replace previous assigned grade in FILM 3F97.

## 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 3V90-3V99

**Special Topics in Women's Studies**

Topics selected on the basis of faculty expertise.  
Prerequisite: WISE 2P90.

## WISE 4F90

**Honours Thesis**

Independent research project under the supervision of a faculty adviser. Directed studies tutorial.

Restriction: open to WISE (single or combined) majors with approval to year 4 (honours).

Prerequisites: WISE 3P90 and 3P91.

Co-requisite: WISE 4P91.

Note: provisional registration only. Students contemplating a thesis should consult with the Director at the end of year 3 and must submit a detailed proposal in writing before May 15, prior to entering year 4.

## WISE 4F91

**Honours Seminar**

Facilitation of individual thesis proposals including the development of a research question, review of relevant literature and integration of theoretical orientations with methodological applications.

*Seminar, 3 hours per week.*

Restriction: consult the Director regarding permission to register.

Prerequisites: WISE 3P90 and 3P91.

Co-requisite: WISE 4F90.

Completion of this course will replace previous assigned grade in WISE 4P91.

## # 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. Authors may include, Boulosa, Kahlo, Navarro, Parra and PiZón.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of WISE 1F90, SPAN 2P20 and 2P21 (2F10) or permission of the instructor.

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

## # WISE 4P22

**Advanced Seminar in 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. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

## # WISE 4P32

**Advanced Seminar in the 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 instructor.

Note: SOCI 2P32 recommended. Students minoring in Labour Studies or Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

## WISE 4P41

**Directed Studies III**

Guided reading on a topic not covered in the regular course offerings.

Restriction: consult the Director regarding permission to register. Students must have a minimum of 12.0 overall credits.

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: consult the Director regarding permission to register. Students must have a minimum of 12.0 overall credits.

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

**Advanced Seminar in 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 instructor.

## WOMEN'S STUDIES

Note: WISE 3P51 recommended. Students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

# WISE 4P95

### **Women and Sport**

(also offered as PEKN 4P95)

Historical and current issues relating to women's participation in sport. Influence of physiological, psychological and sociological factors on performance.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE (single or combined), BPhEd/BEEd, BPhEd, BKin and BSc (Kin) majors until date specified in the Registration guide. Students must have a minimum of 13.0 overall credits.

# WISE 4Q41

### **Advanced Seminar in 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.

*Lectures, 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: SOCI 3P00 and 3P01 or permission of the instructor.

Note: students minoring in Sociology may register prior to date specified in Registration guide. Contact the Sociology Department.

Completion of this course will replace previous assigned grade in SOCI 4P41.

# Governing Bodies

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Raymond Moriyama

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**Vice-Chair**  
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Sciences  
Dean of the Faculty of Business  
Dean of the Faculty of Education  
Dean of the Faculty of Humanities  
Dean of the Faculty of Mathematics  
and Science  
Dean of the Faculty of Social Sciences  
President, Concordia Lutheran  
Theological Seminary  
Registrar  
Librarian

## Elected Faculty Representatives

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Jeff Atkinson  
Irene Blayer  
Cheri Bradish  
Donald Brown  
Michael Carter  
Maureen Connolly  
Carmen Cullen  
Robert Dimand  
Jane Dywan  
Joe Engemann  
John Hay  
Eugene Kaciak  
Mathew Martin  
Miriam Richards

Linda Ritchie  
Danny Rosenberg  
Stan Sadava  
Barbara Sainty  
Barnett Singer  
John Sivell  
John Sorenson  
Ed Sternin  
Susan Sydor  
Glen Tattersall  
Litsa Tsiani  
Terry Wade  
Robert Welch  
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Allister Young

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Michelle Green  
Marla Nasello  
Jessica Paquin  
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Michael Sidenberg  
Sean Woodhead

# Administrative Officers

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Assistant Registrar, Student Information and Systems: **Gloria Gallagher**, BA *Brock*

Assistant Registrar, Advising: **Jeanette Ramsay**, BA *Brock*

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Manager, Instructional Resource Centre:  
**Joanne E. Smith**, BA *Brock*, MLS *SUNY*,  
*Buffalo*

Curator, Rodman Hall: **Gordon Hatt**

Director of Facilities, Hamilton Campus:  
**John F. Bird**, BA *Queen's*

## Faculty Distinction

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### Alumni Association Teaching Award Recipients:

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1980	William A. Matheson <i>Political Science</i>
1981	A. Victoria Soady <i>Classics</i>
1982	Wayne T. Jolly <i>Earth Sciences</i>
1983	Donald J. Ursino <i>Biological Sciences</i>
1984	Angus A. Somerville, <i>English Language and Literature</i>
1985	Martha Husain <i>Philosophy</i>
1986	Norah Carlsen <i>Psychology</i>
1987	Alan G. Arthur <i>History</i>
1988	John G. Benjafield <i>Psychology</i>
1989	Clarke W. Thomson <i>Geography</i>
1990	Eric R. Muller <i>Mathematics</i>
1991	Mary Frances Richardson <i>Chemistry</i>
1992	Joan M. Preston <i>Psychology</i>
1993	Lorne J. Adams <i>Physical Education</i>
1994	Joan Nicks <i>Communications, Popular Culture and Film</i>
1995	David DiBattista <i>Psychology</i>
1996	Marilyn Rose <i>English Language and Literature</i>

1998 Leslie Boldt-Irons  
*Modern Languages, Literatures and Cultures*

1999 Roberta Robb  
*Economics*

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### Brock Award for Distinguished Research and Creative Activity

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1994 R. Peter Rand  
*Biological Sciences*

1995 Herbert L. Holland  
*Chemistry*

1996 W. D. Kenneth Kernaghan  
*Political Science*

1997 Sidney J. Segalowitz  
*Psychology*

1998 Howard E. Bell  
*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*

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### Brock Award for Distinguished Teaching

---

1998 John A. Lye  
*English Language and Literature*

1999 Barry W. K. 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*

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### OCUFA Award Recipients

---

1986 Donald J. Ursino  
*Biological Sciences*

1991 Mary Frances Richardson  
*Chemistry*

1992 Patricia Cranton  
*Education*

1994 Lorne J. Adams  
*Physical Education*

1995 Ann D. Duffy  
*Sociology*

1995 Eric R. 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 W. Thomson  
*Geography*

1991 Donald J. Ursino  
*Biological Sciences*

2000 Barry W. K. Joe  
*Centre for Teaching Learning and Educational Technologies/Modern*



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*Languages, Literatures and  
Culture, Communications,  
Popular Culture & Film*

**Consul General of Japan**  
*Conferred the Order of the Rising Sun*

- 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*

Dr. Raymond Moriyama  
*Chancellor 2004*

**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 W. D. Kenneth Kernaghan  
*Political Science*

**Chevalier dans l'Ordre des Palmes  
Académiques**

- 1992 Alexandre L. A. Amprimoz,  
*Modern Languages,  
Literatures and Cultures*
- 1993 Leonard A. Rosmarin  
*Modern Languages,  
Literatures and Cultures*
- 1995 Sandra L. Beckett  
*Modern Languages,  
Literatures and Cultures*

**Officier dans L'Ordre des Palmes  
Académiques**

2001 Leonard A. Rosmarin  
*Modern Languages,  
Literatures and Cultures*

**Royal Society of Canada**

2004 Sandra Beckett  
*French*

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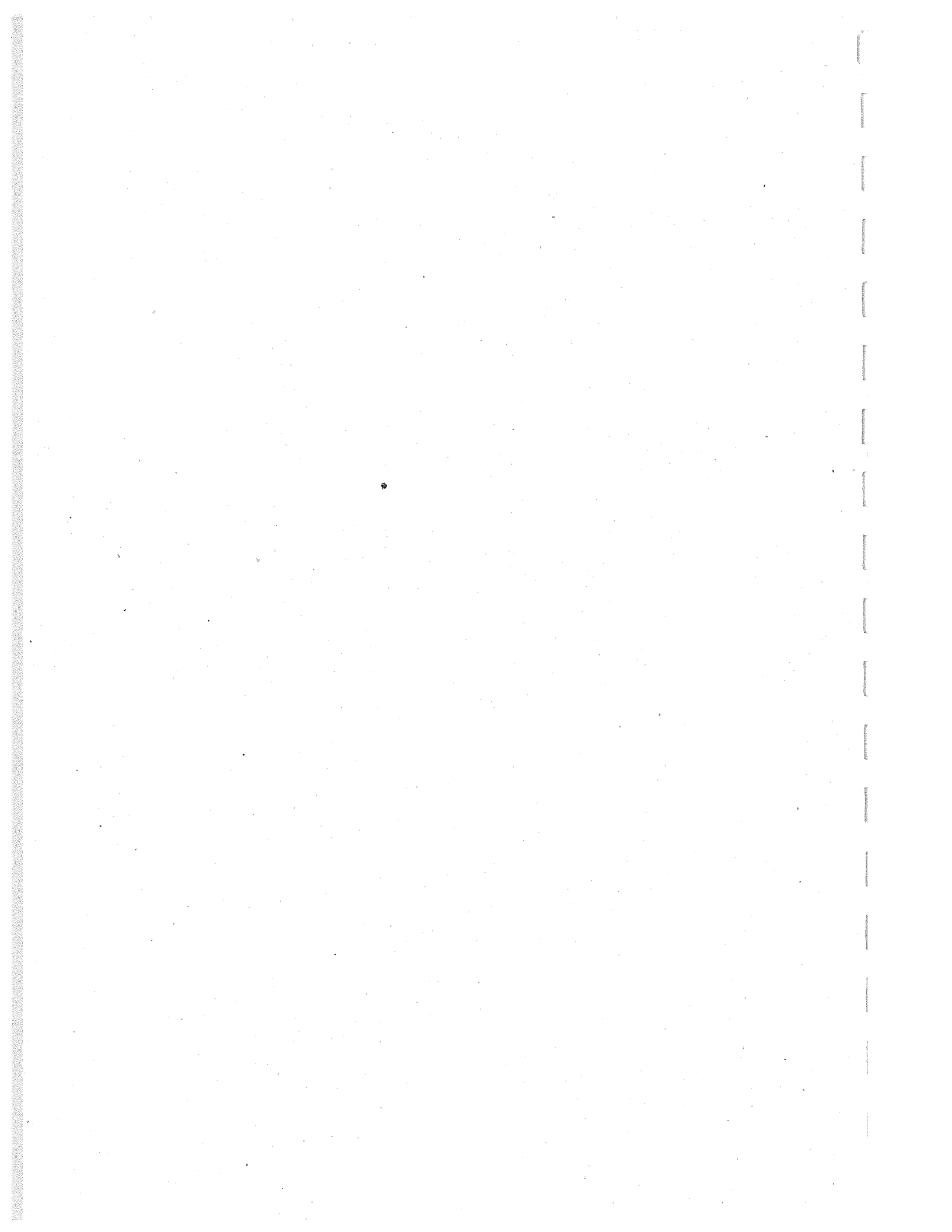
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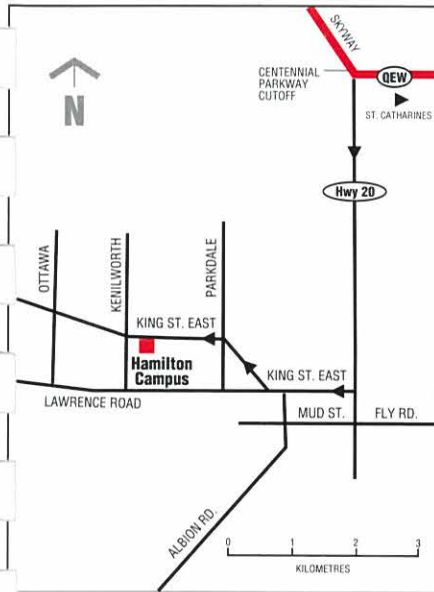
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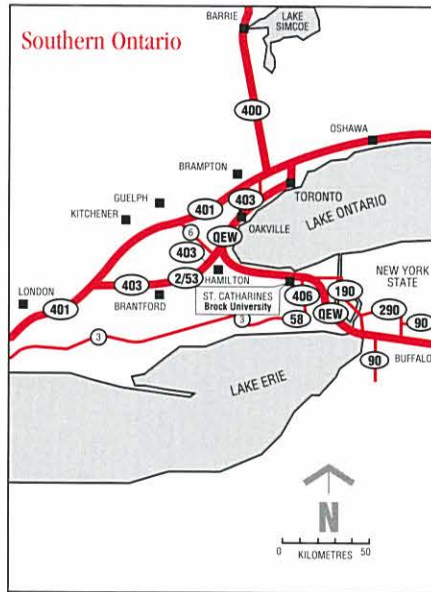
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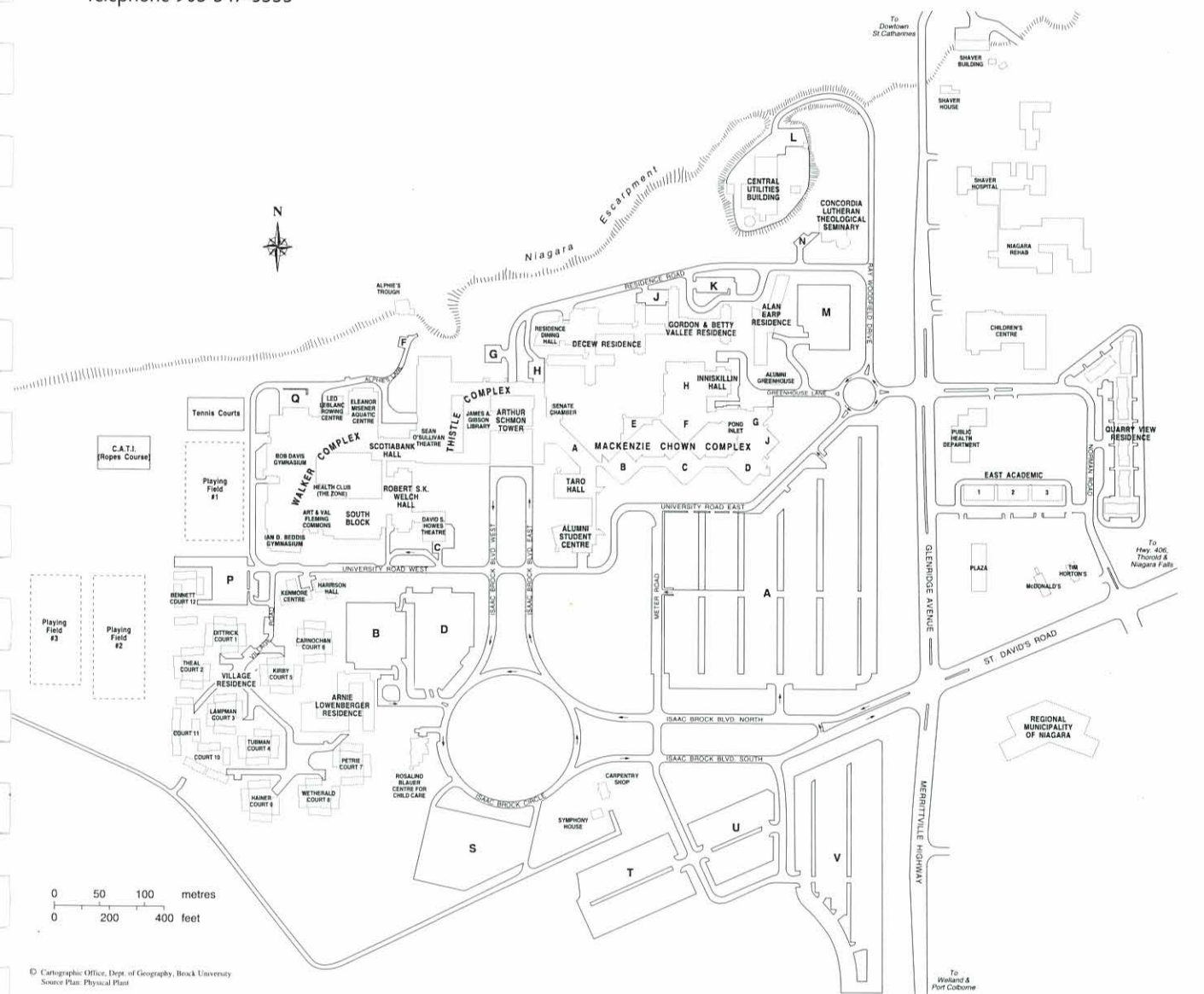
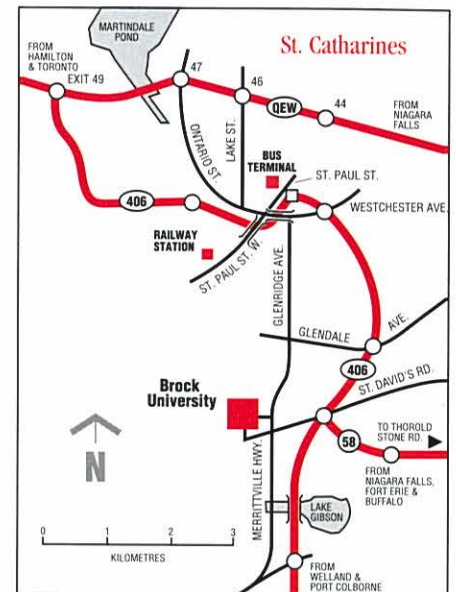




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