

*Your career begins here!*

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# Brock

UNDERGRADUATE CALENDAR 2002-03



BROCK UNIVERSITY  
ST. CATHARINES, ONTARIO, CANADA  
[www.brocku.ca](http://www.brocku.ca)



David W. Atkinson  
PRESIDENT AND VICE-CHANCELLOR

## Welcome to Brock!

You could hardly have picked a more exciting time to be at Brock. With new programs and academic opportunities, the largest building program in the University's history, a growing reputation for teaching and research excellence, and a faculty second to none, Brock offers you a learning experience that will truly shape your future life. 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, indicates our desire to remember and celebrate the best of what we have achieved. Our statement, "Your career begins here!" signals our commitment to prepare you for success in the work world. We are very proud of the achievements of our 42,000 alumni who enjoy a 98.3 per cent employment rate, the highest for Ontario's universities.

Graduates tell us of the unique Brock experience and how it has contributed to their lives. I know that this will be the case for you. This calendar gives only a glimpse of the exciting opportunities that await you at Brock. I urge you to experience your University to the fullest.



David W. Atkinson  
President and Vice-Chancellor



## Your career begins here!

Located in the centre of Canada's beautiful Niagara Peninsula in Ontario, one hour from Toronto, Brock offers strong undergraduate, graduate and interdisciplinary programs that include co-op and other experiential learning opportunities to a student population of 12,000.

Brock celebrates the success of its 42,000 alumni who enjoy one of the highest employment rates among graduates from Ontario's universities. While 98.3 per cent apply their Brock degree to careers throughout Canada and around the world, others pursue further education.

Our commitment to the individual student and to the highest standards of teaching and research excellence are reflected in the growing numbers applying to Brock. The percentage increase in student applications to Brock over the last five years is the highest in Ontario.



Brock students can expect the close, personal attention of a dedicated faculty and the opportunity to explore their academic interests through participation in seminars and labs.

The University is expanding the number of programs offered at the undergraduate and graduate levels and is introducing new co-op programs across all faculties. Brock offers the second highest selection of co-op programs among Ontario's universities with more planned.

To meet an increasing demand for a Brock education, the University is completing a \$51-million campus expansion that includes the construction of the Student, Community Health and Fitness Centre, a Health Club, two academic buildings and a student residence. As well, the University operates a campus in Hamilton, Ontario, that is used primarily for teacher education.

Brock serves the Niagara region as a cultural, academic and recreational centre and offers the community excellent facilities for people of all ages.

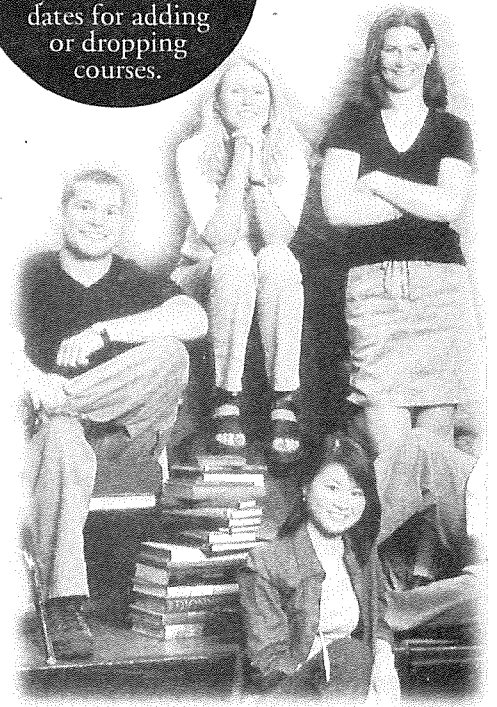
Brock's annual economic impact of \$190 million on Niagara will grow to \$240 million in 2003 when the University enrolls an additional 1,500 students to meet the growing demand for post-secondary education.

Located on the Niagara Escarpment, overlooking the City of St. Catharines, the Brock campus is a safe and friendly environment. The park-like setting of the University, with its wide-open spaces, offers a number of outdoor activities at any time of year.

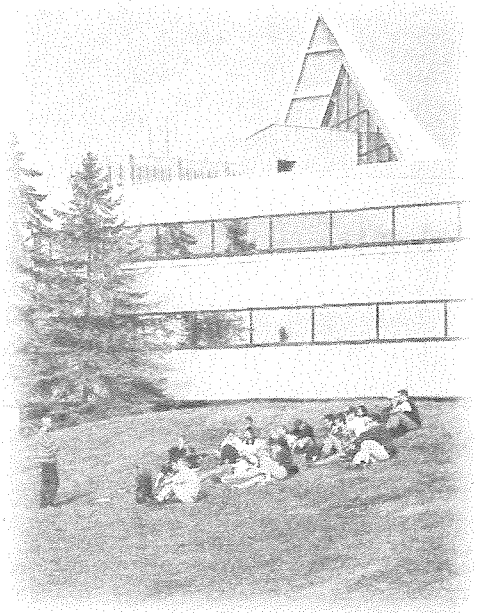
Opened in 1964, Brock was named for Maj.-General Sir Isaac Brock, who lost his life at Queenston Heights in the War of 1812. His last words are said to be, "Surgite! Push on!" - which have become the University's motto.

*Important reminder for students:*

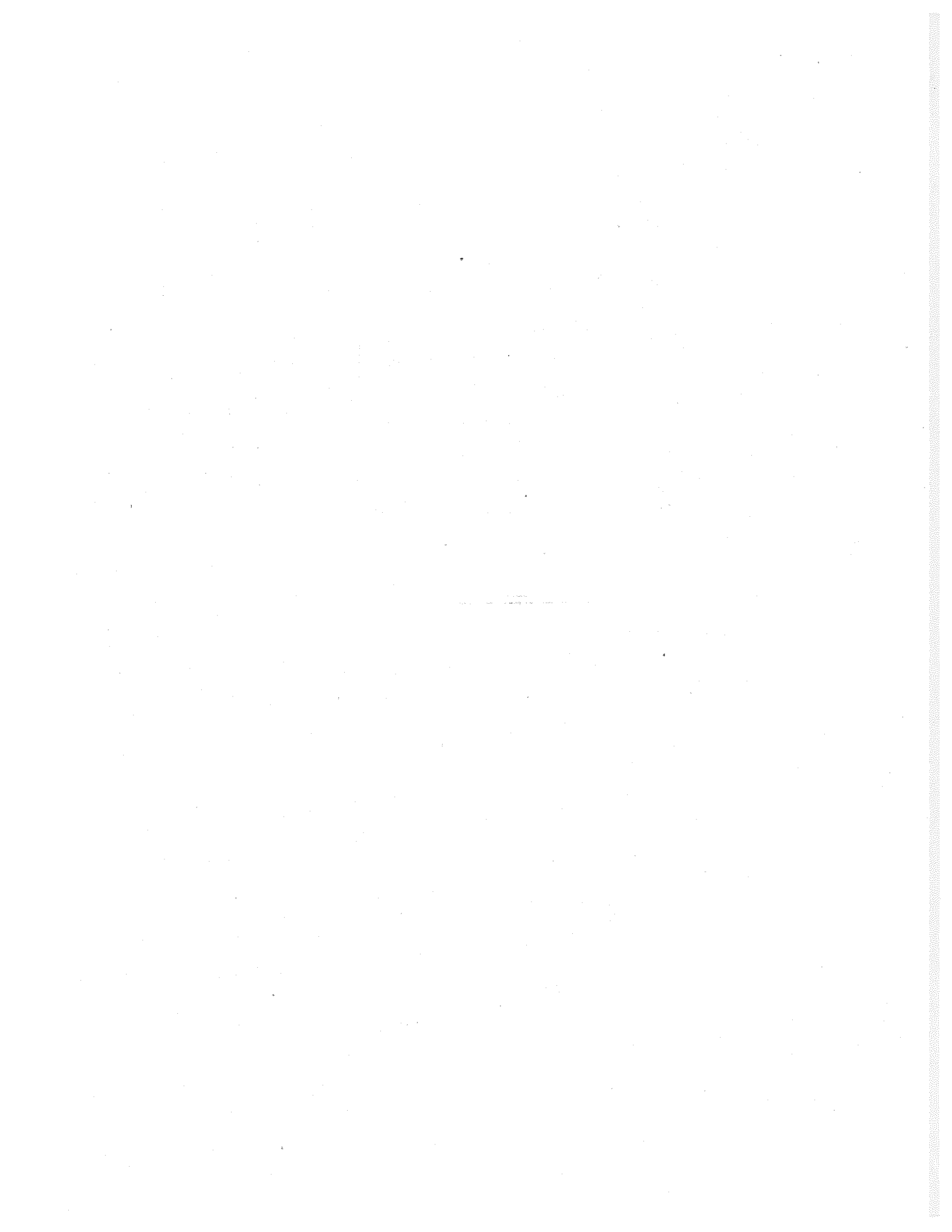
Please make sure you check the dates for adding or dropping courses.



# Brock



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



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 :

*<http://www.brocku.ca/registrar> for the most current version.*

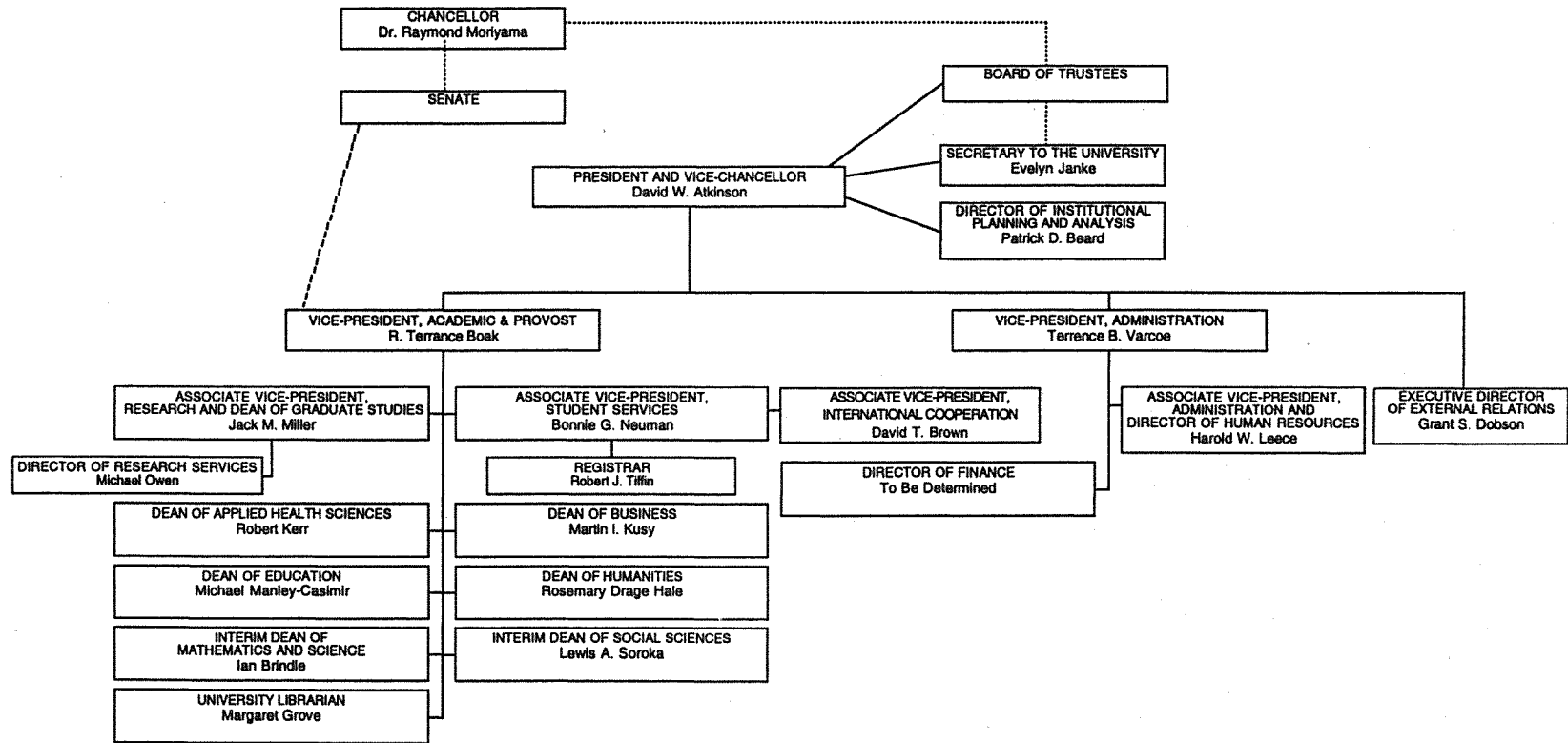


**Senate Academic Program Committee**  
M. Connolly (Chair), J. Bridge (Vice-Chair), S. Bennett, R. Cheel, E. DiFruscio, H. Gayler, J. Miller, W. Ross  
A. Shome, R. Tiffin  
C.A. Farinacci (Secretary)

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**BROCK UNIVERSITY SENIOR ADMINISTRATION**

MARCH 1, 2002

# Faculty Structure

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## I. Academic Faculties

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### Faculty of Applied Health Sciences

Dean: Robert Kerr BSc, MSc, PhD *Oregon*

Community 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*

Accounting and Finance  
Management, Marketing and Human Resources

### Faculty of Education

Dean: Michael Manley-Casimir, BA *Exeter*, MEd *British Columbia*, PhD *Chicago*

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

### Faculty of Humanities

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

Applied Language Studies  
Canadian and European Union Studies  
Canadian Studies  
Classics  
Contemporary Arts (as of July 1, 2002)

Dramatic Arts (as of July 1, 2002)  
English Language and Literature  
Fine Arts (until June 30, 2002)  
Modern Languages, Literatures and Cultures  
Great Books/Liberal Studies  
History  
International Studies  
Music  
Philosophy  
Visual Arts (as of July 1, 2002)

### Faculty of Mathematics and Science

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

Biochemistry  
Biological Sciences  
Biotechnology  
Chemistry  
Computer Science  
Computing and Business  
Earth Sciences  
Mathematics  
Neuroscience  
Oenology and Viticulture  
Physics  
Science

### Faculty of Social Sciences

Dean: David T. Siegel, BSc *Louisville*, MA *Carleton*, PhD *Toronto*

Business Economics  
Child and Youth Studies  
Communications, Popular Culture and Film  
Economics  
Environment  
Geography  
Labour Studies  
Political Science  
Psychology  
Sociology  
Women's Studies

## II. Affiliated College

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President: Jonathan Grothe, BA *Concordia Seminary, Ft. Wayne*, M.Div., S.T.M. Th. D. *Concordia Seminary, St. Lewis*

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

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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 wish 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.

# UNIVERSITY CONTACTS

## Brock Telephone 905-688-5550

	Location	Extension		Location	Extension
Aboriginal Studies	WH 126	4112	Geography	MC C322	3484
Accounting and Finance	TA 233	3918	Graduate Studies Office	AN N341	3239
Applied Language Studies	MC A242	3374	Great Books/Liberal Studies	MC C329	4752
Biochemistry	MC F234	3388	Health Services	Harrison Hall	3243
Biological Sciences	MC F234	3388	History	MC C420	3500
Biotechnology	MC E206	3406	Intensive English Language Program	MC A224	4317
Bookstore	THs 219	3237	International Political Economy	TA 468	3476
Brock University Students' Union	SC 313	3568	International Studies	MC F242	4224
Business Economics	TA 465	3325	Labour Studies	MC C330	4753
Canadian Studies	MC F242	4029	Language Learning Centre	THe 269F	3102
Career Services	ST411	3242	Library	ST Lobby	3228
Centre For The Arts (Administration)	THw 131	3216	Management, Marketing and		
(Box Office)	THw 221	3257	Human Resources	TA 336	3944
Centre for the Environment	MC 242	3292	Mathematics	MC J415	3300
Chemistry	MC E206	3406	Modern Languages, Literatures,		
Child and Youth Studies	MC D332	3740	and Cultures	MC A240	3312
Classics (Greek and Latin)	ST 1121	3575	Music	THw 139A	3817
Communications, Popular			Oenology and Viticulture	IH 206	4652
Culture and Film	AN N308	4290	Philosophy	ST 1128	3315
Community Health Sciences	Shaver 300	4228	Physical Education	PE 286	4358
Computer Science	MC J314	3513	Physics	MC B210	3412
Computing and Business	MC J314	3513	Political Science	TA 468	3476
Computing and Solid-State	MC B210	3412	President and Vice-Chancellor	ST 1301	3333
Device Technology			Psychology	MC B326	3542/3543
Co-op Programs	TA 401	4325	Recreation and Leisure Studies	PE 238	3259
Dean, Applied Health Sciences	PE 287	3385	Registrar's Office ( <a href="http://www.brocku.ca/registrar/">http://www.brocku.ca/registrar/</a> )		
Dean, Business	TA 313	4006	Academic Services	ST 301	3430
Dean, Education	WH 104	3712	Registration	ST 301	4375
Dean, Humanities	ST 1110	4562	Admissions	ST 301	3431/3434/3745/4991
Dean, Mathematics and Science	MC D408	3421	Financial Aid Office	ST 402	3252/3253/3958
Dean, Social Sciences	AN N323	3425	Residences (General Inquiries		
Earth Sciences	MC D410	3526	and Reception)	DRES 206	3370
Economics	TA 465	3325	Science	MC E206	3406
Education (Main office)	WH 126	4112	Sociology	MC A331	3455
Education - Concurrent BA/BEd			Sport Management	PE 290	4987
(Child and Youth Studies)	MC D331	3116	Student Development Centre	ST400	3240/4225
Education - Concurrent BA/BEd			Aboriginal Student Services	ST400	4273
(French Teaching Specialization)	WH 126	4112	Learning Skills Services	ST400	3114
Education - Concurrent -	PE 286	4358/3855	Personal Counselling Services	ST400	4750
BPhEd(Honours)/BEd			Services for Students w/disABILITIES	ST400	3240/4225
Education - Concurrent BSc/BEd	MC D412	4271	Student Services	ST401	3418
English Language and Literature	MC A310	3469	Tourism Studies	PE238	3259
Environment	MC F242	3292	University Switchboard	(905) 688-5550	0
Environmental Sciences	MC F242	3272	Women's Studies	MC C331	4330
Fine Arts (Drama and Theatre					
in Education, Dramatic Literature,					
Theatre, Visual Arts)	THw 135	3214			
Finance Office (fees)	ST 1270	3250/4260/3806			



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## Undergraduate Sessional Dates

An academic timetable (BIRT 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: <http://www.BrockU.CA/registrar/birtguides/index.html> or from the Office of the Registrar prior to the beginning of the session. NOTE: All dates refer to undergraduate studies unless otherwise specified.

<b>SPRING 2002</b>	<b>SUMMER 2002</b>
<p><b>Friday, April 26</b> Payment due date for Spring Registration (duration 1 and duration 2 courses)</p>	<p><b>Friday, July 5</b> Payment due date for Summer Registration.</p>
<p><b>Monday, May 6</b> First day of classes for Spring Registration. Please consult the Spring and Summer Registration Guide for further details.</p>	<p><b>Monday, July 15</b> First day of classes for Summer Registration. Please consult the Spring and Summer Registration Guide for further details.</p>
<p><b>Monday, May 13</b> Last day for duration 1 and duration 2 late registration and course changes without permission of the instructor. BIRT closes for duration 1 and duration 2 adds, drops and course changes. After this date, manual course change requests are required.</p>	<p><b>Friday, July 19</b> Last day for duration 1 late registration and course changes without permission of the instructor. BIRT closes for duration 1 adds, drops and course changes. After this date, manual course change requests are required.</p>
<p><b>Monday, May 20</b> Victoria Day. University closed; library open. Classes will be held.</p>	<p><b>Thursday, August 1</b> Last day for receipt of applications to graduate at Fall Convocation.</p>
<p><b>Friday, May 31</b> Last day for withdrawal without the assignment of a grade and last day to change from credit to audit status for duration 2 courses.</p>	<p><b>Friday, August 2</b> Last day for withdrawal without the assignment of a grade and last day to change from credit to audit status for duration 1 courses.</p>
<p><b>Friday, June 7</b> Last day of lectures for duration 2 courses. Last day to apply for admission to full-time studies in the Fall/Winter Session.</p>	<p>Last day for receipt of applications for admission to part-time studies in Fall/Winter Session in order to ensure processing prior to normal registration period.</p>
<p><b>Friday, June 7 and Saturday, June 8</b> Progress examinations for duration 1 courses and final examinations for duration 2 courses.</p>	<p><b>Friday, August 2 and Saturday, August 3</b> Progress examinations for duration 1 courses.</p>
<p><b>Monday, June 10</b> First day of classes for duration 3 courses.</p>	<p><b>Monday, August 5</b> Civic holiday. University closed; library open. Classes will be held.</p>
<p><b>Monday, June 10 to Wednesday, June 12</b> Spring Convocation</p>	<p><b>Wednesday, August 28</b> Last day of lectures for duration 1 courses.</p>
<p><b>Friday, June 14</b> Last day for withdrawal without the assignment of a grade and last day to change from credit to audit status for duration 1 courses.</p>	<p><b>Thursday, August 29 and Friday, August 30</b> Final examinations for duration 1 courses.</p>
<p><b>Monday, June 17</b> Last day for duration 3 late registration and course changes without permission of the instructor. BIRT closes for duration 3 adds, drops and course changes. After this date, manual course change requests are required.</p>	
<p><b>Friday, June 28 and Monday, July 1</b> Canada Day closure. University closed; library open. Classes will be held.</p>	
<p><b>Friday, July 5</b> Last day for withdrawal without the assignment of a grade and last day to change from credit to audit status for duration 3 courses.</p>	
<p><b>Friday, July 12</b> Last day of lectures for duration 1 and duration 3 courses. Last day to apply for admission to part-time studies in the Summer Session.</p>	
<p><b>Friday, July 12 and Saturday, July 13</b> Final examinations for duration 1 and duration 3 courses.</p>	



FALL 2002	WINTER 2003
<b>Friday, August 23</b> Payment due date for Fall/Winter Registration (duration 1, 2 and 3 courses).	<b>Wednesday, December 18</b> Payment due date for Winter Registration for duration 3 courses only.
<b>Friday, August 30</b> Last day to apply for admission to part-time studies for Fall Term entry.	<b>Thursday, January 2</b> University reopens. Winter Term resumes, Pre-Service Education Program.
<b>Monday, September 2</b> Labour day. University closed; library closed.	<b>Friday, January 3</b> Emergency examination date. (December exams).
<b>Tuesday, September 3</b> First day of Fall/Winter Session, duration 1 and duration 2 (Pre-Service Education Program)	<b>Monday, January 6</b> First day of Winter Term, undergraduate programs.
<b>Monday, September 9</b> First day of Fall/Winter Session, duration 1 and duration 2, day and evening sections (undergraduate program).	<b>Friday, January 17</b> Last day for duration 3 late registration and course changes without permission of the instructor. BIRT closes for duration 3 adds, drops and course changes. After this date, manual course change requests are required.
<b>Friday, September 20</b> Last day for duration 1 and duration 2 late registration and course changes without permission of the instructor. BIRT closes for duration 1 and duration 2 adds, drops and course changes. After this date, manual course change requests are required.	<b>Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 1 courses.</b>
<b>Sunday, October 6</b> Fall Open House	<b>Monday, February 17 to Friday, February 21</b> Reading Week. No classes will be held in undergraduate programs.
<b>Monday, October 14</b> Thanksgiving Day. University closed; library closed.	<b>Friday, February 21</b> President's Holiday. Administrative offices closed; Registrar's Office and library open.
<b>Saturday, October 19</b> Fall Convocation.	<b>Monday, March 3</b> Last day for receipt of applications to graduate at Spring Convocation.
<b>Friday, November 1</b> Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 2 courses.	<b>Friday, March 7</b> Last date for withdrawal without academic penalty and last day to change from credit to audit status for duration 3 courses.
<b>Friday, December 6</b> First day of term, Winter Term, Pre-service Education Program.	<b>Monday, March 10 to Friday, March 14</b> Spring break. No classes will be held in the Pre-service Education Program.
<b>Monday, December 9</b> Last day of lectures Fall, duration 2 courses (see note 1).	<b>Sunday, March 16</b> Spring Open House
<b>Tuesday, December 10</b> Snow day/reading day (see note 2).	<b>Friday, April 11</b> Last day of lectures for durations 1 and 3 courses.
<b>Wednesday, December 11 to Saturday, December 21</b> Progress examinations for duration 1 courses and final examinations for duration 2 courses.	<b>Saturday, April 12 and Monday, April 14</b> Snow/Reading day(s)
<b>Friday, December 13</b> Last day to apply for admission to part-time studies for Winter Term entry.	<b>Friday, April 18</b> Good Friday. University closed; library open.
<b>Tuesday, December 24 (noon) to Wednesday, January 1</b> Christmas and New Year holiday. University closed; library closed.	<b>Tuesday, April 15 to Wednesday, April 30</b> Final examinations.
	<p><b>Notes:</b></p> <p>1. The extra day in the Fall Term will be used to replace Thanksgiving Day classes. The schedule will be that of a Monday.</p> <p>2. 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.</p>

# The University

Brock University, founded in March 1964, offers excellent undergraduate, graduate, and interdisciplinary programs that include co-op and other experiential learning opportunities to a student population of over 12,000. The University is located in St. Catharines atop the Niagara Escarpment which has been recognized as an International Biosphere reserve by The United Nations Educational, Scientific and Cultural Organization (UNESCO). The University serves the Niagara area as a cultural, academic and recreational centre.

Brock was named for Major-General Sir Isaac Brock who lost his life at Queenston Heights in the War of 1812. His last words are said to be, "Surgite! Push on!" - which have become the University's motto.

## Mission Statement

### I. Academic Focus and Environment

*It is the mission of Brock University:*

1. to provide a broadly-based liberal undergraduate education in the arts and sciences and in professional and interdisciplinary programs and to offer graduate studies in selected disciplines;
2. to maintain excellence in teaching, scholarship and other creative activity as interconnected components of the University's responsibility;
3. to permit carefully planned growth in student enrolments and academic programs provided that sufficient additional resources are available to the University for such growth and

that any increase in the size of the University does not diminish those qualities that identify Brock's unique character.

These include:

- an emphasis on small classes and small-group learning in seminars, laboratories and studios to facilitate intellectual excitement, improved learning and academic interaction among students and between students, faculty and staff;
  - an open and accessible administration;
  - a unity of purpose among faculty and staff;
  - an atmosphere in which all members of the Brock community are treated with respect and valued as individuals;
4. to provide, through the conduct of the faculty, students and staff, and through its policies and administration, an atmosphere free from sexism, racism and all other forms of stereotyping, harassment and discrimination;
  5. to provide academic programs and a learning environment of the highest quality to attract academically qualified and gifted students;
  6. to enhance existing programs while developing additional innovative and relevant programs, at both the undergraduate and graduate level for full-time and part-time students;
  7. to develop the library, computing and other resources to support research, creative ability and learning;
  8. to develop a campus with the academic space, facilities and amenities, both indoor and outdoor, conducive to effective learning and scholarship.

## II. Students

*It is the mission of Brock University:*

1. to prepare students for advanced study, career success, community responsibility and a richer life by developing a passion for life-long learning and the abilities to think creatively and critically, to communicate clearly, to maintain high ethical standards, to exercise sound judgment and to address societal and environmental issues;
2. to foster an environment for students which encourages not only intellectual growth but also physical, social and spiritual well-being through a diversity of extracurricular activities and experiences designed to enrich their lives, develop their talents and provide opportunities to discover and pursue new interests;
3. to facilitate accessibility for lower-income students, mature students, part-time students, students from visible minority group, Canadian Native Peoples, international students, students with unrealized potential and students with disabilities;
4. to foster a continuing commitment to the University among graduates.

## III. University Personnel

*It is the mission of Brock University:*

1. to support, encourage and nurture faculty and staff in their pursuit of personal growth and professional development, recognizing that male and female career patterns may differ;
2. to encourage wide-spread participation of faculty and staff in policy formation;

3. to implement fair and progressive employment policies for all University personnel;
4. to achieve equality in the representation of women and men in both academic and non-academic positions;
5. to increase the number of people from visible minority groups, Aboriginal Peoples and those with disabilities, in both academic and non-academic positions;
6. to encourage and recognize the achievements and contributions of staff members to the service of students and the aims of the University;
7. to encourage and support faculty members in their pursuit of excellence in undergraduate and graduate teaching and in research and other creative activity.

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#### IV. The Community

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*It is the mission of Brock University:*

1. to serve as a learning, cultural, artistic and recreational centre and co-operatively address regional issues.
2. to welcome and support international students and faculty and to encourage exchange programs and collaboration with universities in other countries in order to promote international understanding and co-operation;
3. to serve the Niagara, Canadian and international communities by providing leadership and consultation on societal issues and concerns.

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# Academic Regulations and University Policies

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## I. Confidentiality and Release of Student Records

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### 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: <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.

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**II. Registration**

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**A. Applicable Calendar**

A student who has maintained enrolment in at least one credit in each calendar year 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, however, become subject to the Calendar regulations in effect at the time of their re-registration.

**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 BIRT 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 must apply to the Registrar for reinstatement.

**C. 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%) 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.

**D. 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

**E. Attendance Requirements**

- Students are expected to attend all lectures, discussion groups, seminars and laboratory periods of the courses
- Instructors must inform students about the relationship between attendance and course grades early each session.
- A student may not enrol in courses which conflict in time without written approval of the instructors involved.

**F. 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:

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**Spring 2002**

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**Duration 1 (begins May 6)**

Last day to drop a course without academic penalty is June 14

**Duration 2 (begins May 6)**

Last day to drop a course without academic penalty is May 31

**Duration 3 (begins June 10)**

Last day to drop a course without academic penalty is July 5

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**Summer 2002**

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**Duration 1 (begins July 15)**

Last day to drop a course without academic penalty is August 2

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**Fall/Winter 2002/2003**

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**Duration 1 (begins September 9)**  
Last day to drop a course without academic penalty is January 17, 2003

**Duration 2**  
Last day to drop a course without academic penalty is November 1, 2002

**Duration 3**  
Last day to drop a course without academic penalty is March 7, 2003

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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 instructors shall normally assess and communicate to students a minimum of 15% of their final grade by not later than the week prior to the last date for withdrawal without academic penalty.

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

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

A student who withdraws in good standing may be entitled to a partial refund of tuition fees in accordance with the refund schedule established by the Finance 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 Financial Aid office before withdrawing from courses.

**G. 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 submitted to the Registrar by the last day to withdraw from a course without penalty for that course duration. Please consult the information on *Withdrawal/Dropping of Courses*.

**H. 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 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 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.
- A Letter of Permission is normally restricted to students who have successfully completed five credits at Brock with a minimum overall average of 60 percent.
- 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 (e.g. Keele, Swansea) nor to students in 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, e.g. 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 completion of the course(s).

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.

**I. 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 Registrar's Office, 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 and 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 1-00 to 1-99) and courses listed as prerequisites may not be repeated if credit has been received for higher level courses in the same subject.

#### J. 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.

#### K. 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. A list is available in the Office of the Registrar. It is the responsibility of the department 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 or elsewhere. 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.

#### 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 prior to this step.) The Office of the Registrar forwards the application to the appropriate department which must decide whether to accept the challenge. The department may require documentary material from the student or an interview before making its decision. If the department 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 normally choose an area of major concentration after successful completion of five credits. 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. Departmental approval is required for any deviation from this policy. In most departments 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
- At least one of the three required context credits

#### B. Context Courses

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

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

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

\*In cases where subjects are listed under two categories, only one of the requirements may be satisfied by that course (e.g., if 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.

#### Humanities (context courses)

CANA 1F91  
CLAS 1P91, 1P92, 1P93, 1P95, 1P97  
DART 1F93  
ENGL 1F91, 1F95, 1F99  
FILM 1F94  
FREN 1F90  
GBLS 1F90, 1P91, 1P92, 1P93  
GERM 1F90, 1P93, 1P94  
\*HIST 1F95, 1F96, 1P92, 1P93\*\*  
ITAL 1F90, 1P95

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INTL 1F90  
LING 1F25  
MUSI 1F50, 1P11, 1P12  
PHIL 1F90, 1F91, 1F93, 1F94  
SPAN 1F90  
VISA 1F90

### Social Sciences (context courses)

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

### Sciences (context courses)

ASTR 1F00  
BIOL 1F25, 1F90  
CHEM 1F92  
ERSC 1F01, 1F90  
\*GEOG 1F91  
PHYS 1F20, 1F25, 1F90  
SCIE 1F30

### C. Combined Major Programs

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

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

If a simple majority of the credits taken during the program has been drawn from courses offered by the Departments comprising the Faculty of Mathematics and Sciences, the degree awarded upon satisfaction of all graduate requirements will be the BSc (Pass), BSc with Major or BSc (Honours) as appropriate; if drawn

from those courses offered by the Departments comprising the Faculties of Humanities and/or Social Sciences, the degree awarded shall be BA (Pass) or BA with a Major or BA (Honours) as appropriate.

### D. Credit Limitations

A maximum of seven credits toward a 20 credit B.A. or B.Sc. degree program, and five credits toward a 15 credit B.A. or B.Sc. 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 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 to fulfil the Humanities language requirement. 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. Under special circumstances, ENGL 3F92 may be used to satisfy the language requirement. Other languages currently offered by the University are: Cayuga, French, German, Greek, Italian, Japanese, Latin, Mandarin Chinese, Mohawk, Portugese, Spanish and Russian.

Admission to language courses beyond the 1-00 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 language department 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 2-00 level course or above are exempt from the language requirement. For example, such an exemption may be granted to OAC 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 Department Chair or Director.

## IV. Graduation Requirements

### A. Application for Graduation

- Application for graduation at Fall Convocation must be received in the Office of the Registrar by August 1.
- Application for graduation at Spring Convocation must be received in the Office of the Registrar by March 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 average of 80 percent 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 average of 70 percent 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 overall average in all Brock courses.

- A **pass (15 credit) or non-honours (20 credit) degree** is granted to students who have completed an approved program with a minimum 60 per cent 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% overall average (no major average requirement).

### C. Undergraduate Degrees Offered 2002-2003

Honours -	20 Credits
Non-Honours -	20 Credits
With a Major -	20 Credits
Pass -	15 Credits

#### • Bachelor of Accounting: *Honours*

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

#### • Bachelor of Arts: *Honours, Non-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 (with a Major)*

#### • Bachelor of Music: *Honours*

#### • Bachelor of Physical Education: *Honours, Non-Honours (With a Major)*

#### • Bachelor of Recreation and Leisure Studies: *Honours, Pass*

#### • Bachelor of Science: *Honours, Non-Honours (With a Major), Pass*

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

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

#### • Bachelor of Tourism Studies: *Honours, Non-Honours*

#### Bachelor Honour Degrees (20 credits)

- 12 credits must be in the course number range of 2-00 or above. No more than 8 credits at the year 1 level may be taken. Six of the 12 credits must be in the course number range of 2-90 or above and three of these must be courses numbered 3-90 or above.
- A single major 20 credit degree program normally requires 10 credits in one department. See department Calendar entry for specific requirements.
- minimum of fourteen credits in the majors (seven from each) is required for a combined major honours degree.

#### Bachelor non-Honour 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 in the course number range of 2-00 or above. No more than 8 credits at the Year 1 level. Six of the 12 credits must be in the course number range of 2-90 or above and three of these must be courses numbered 3-90 or above.
- A single major 20 credit degree program normally requires 10 credits in one department. See department information for specific requirements.
- A minimum of fourteen credits in the majors (seven from each) is required for a combined major honours degree.

#### Bachelor Pass Degrees (15 credit)

- Completion of an approved 15 credit program with a minimum overall average of 60 percent and a 60 percent average in courses designated as major credits.
- Seven credits must be course numbered 2-00 or higher and three of these must be 2-90 or above. No more than 8 credits 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.

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

- Available as an honours (20 credit) and pass (15 credit) degree.

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- A minimum average of 70 percent 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 overall average of 60 percent 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 credits) 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 comprising the Faculty of Mathematics and Sciences, then the degree awarded upon satisfaction of all graduate requirements will be the BSc or the BSc (Honours) as appropriate.

- All credits from the areas of concentration 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 within 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 at the 2-90 level or above, with a minimum of two credits from the areas of concentration.

- Honours students must include three credits at the 3-90 level or above, with a minimum of two credits from the areas of concentration.

- All programs must be approved by the Dean or *designate*.

### Bachelor of Arts Pass General Studies Degree (15 credit)

- 15 credits

- A minimum 60 percent overall average.

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

- There are no major or specified areas of concentration.

- A maximum of three and one-half credits from any one discipline (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 three 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 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 consult with the appropriate Dean or designate.

### Bachelor of Arts/Bachelor of Science Honours or Pass Degrees Integrated Studies (15 or 20 credits):

- 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. 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 B.Ed. 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.

### E. Requirements for a Second or Subsequent Degree

With the exception of the BA/BEEd, BSc/ BEd and BPhEd(Honours)/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

(exceptions exist for BAcc and BBA 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 1-00 level courses specifically required to fulfil the requirements for the second degree. Electives must be at the 2-00 level or above.

#### F. 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.)

#### G. 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:

- Adult Education (Faculty of Education)
- Adult Education with an Aboriginal Focus
- Criminology and Moral Regulation (Department of Sociology)
- Drama in Education (Department of Dramatic Arts)
- Enterprise Education (Faculty of Education)
- Environment (Centre for the Environment)
- Grape and Wine Technology (Oenology and Viticulture)
- Great Books/Liberal Studies (Great Books/Liberal Studies Program)
- 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)
- 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.
- Students seeking admission to the certificate program following the completion of a degree or diploma program from a university, 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. Details appear in the relevant departmental 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.

#### H. Replacement of Diploma

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.

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 etc.) 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 Assistant Registrar, Publications and Protocol.

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## V. Examinations

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### A. General Information

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 (e.g., 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 Department/Centre/Program 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 and final examinations are compulsory in all courses numbered 1-00 to 1-99. 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/Program 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 Committee on Appeals.

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. University departments and programs may, at their discretion, request more detailed documentation in particular cases.

#### **H. Part-time Students**

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

#### **I. Retention of Papers**

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

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

#### **J. Students with Special Needs**

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

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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.

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.

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

## ACADEMIC REGULATIONS AND UNIVERSITY POLICIES

and final examination, where the latter is required, to the satisfaction of the department. 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 Studies and Pre-service Faculty of Education courses only:

P1

P2

P3

P/F Pass/Fail

Wxx (as above)

IN (as above)

NR (as above)

NW (as above)

Grades are mailed to students about four weeks after the end of the examination period. 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.\*

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

\*See regulations on repeated courses.

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

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

### E. Dean's Honours List

Students are placed on the Dean's Honours List if they have completed the normal maximum course load (five credits) in their program in the preceding Fall/Winter Session with an overall sessional average of 80 percent. Students with Special Needs who are full-time but carrying fewer than the maximum course load because of the impact of a disability, as recommended by the Associate Vice-President (Student Services), and who meet the 80 percent overall average, are also eligible.



**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 departmental requirements.)

**G. Academic Probation, Suspension, Debarment**

**A. Academic Probation:**

I. 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.

II. Students registered in Spring Session courses prior to notification of Academic Probation will be permitted to continue in currently registered courses.

III. 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 cumulative average to 60 percent.

**B. Academic Suspension:**

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.

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 readmission to the University following the minimum one year period of suspension are required to apply to the Senate Committee on Admissions. Documentation with respect to the grounds for appeal, must be provided by the student in support of any appeal for readmission.

• 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 request that the Senate Committee on Admissions permit them to continue their studies without sitting out the required one-year Academic Suspension. 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.

• Students on Academic Probation following readmission are required to pass all courses and achieve a minimum 60 percent overall average on any or all credits taken while on probation. (Students who meet the requirements of probation should note that they must also raise their overall average of 60% on all courses taken in order to be removed from probation.)

• Failure to meet minimum academic requirements while on second probation will result in Academic Debarment.

**C. Academic Debarment:**

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.

**Re-Admission:**

• 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 Committee on Admissions. Documentation with respect to the grounds for appeal, must be provided by the student in support of any appeal for readmission. 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, and they will be considered to be on a final Academic Probation.

• Students on Academic Probation following readmission are required to pass all courses and achieve a minimum 60 percent overall average on any or all credits taken while on probation. (Students who meet the requirements of probation should note that they must also raise their overall average of 60% on all courses taken in order to be removed from probation.)

• failure to meet minimum academic requirements while on a final probation will result in 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:

#### A. 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.

#### B. 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.

#### C. 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/Programs 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.

#### 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 Department 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/Program. The student may, if wished, be accompanied to any interviews by one of the departmental 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 Committee on Appeals. Students must ensure that they follow the prescribed process and meet with required individuals prior to submitting an appeal to the Senate Committee on Appeals. Students who submit an appeal to the Senate Committee on Appeals without following the prescribed procedure will have the appeal returned without a decision. There is a fee charged for an appeal to the Senate Committee on Appeals. The fee will be refunded only if the appeal is successful.

## VIII. Appeals

### Appeal of Academic Suspension

- Appeals must be directed to the Senate Committee on Admissions.

- A typed letter of appeal and all supporting documentation with respect to the grounds for appeal, must be submitted to the Secretary of the Senate Committee on Admissions at the Office of the Registrar by the student in support of any appeal for readmission.

- The Senate Committee on Admissions 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 Committee on Admissions permit them to continue their studies without sitting out the required one-year Academic Suspension. A \$10 fee is charged for an appeal for early re-admission. Students granted their request will be readmitted to the University as if they had served the one-year suspension; that is, they will be placed on a second Academic Probation.

- Students re-admitted 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.

#### b) Appeal of Academic Debarment

- Appeals must be directed to the Senate Committee on Admissions.

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

- Applicants must complete a formal application for admission.

- 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 re-admitted to the University after Academic Debarment will be considered to be on a final Academic Probation.

- Subsequent failure satisfy to Academic Probation requirements will result in 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/Program.

- 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 Committee on Appeals (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 mailing 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/Program within 180 days of the mailing 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 degree requirement must be directed to the Chair/Director of the student's major Department/Centre/Program. (Combined majors shall appeal to the Department/Centre/Program 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 Committee on Appeals (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 Committee on Appeals (See Appeals Procedures).

#### f) Requests for Retroactive Registration/Backdated Withdrawals

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

- A backdated withdrawal will be considered within 12 weeks of the last day of class upon the receipt of a request which is supported by documentation verifying medical reasons or compassionate grounds. Documentation must indicate the reason(s) the student was not able to

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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 Committee on Appeals. Appeals to the Senate Committee on Appeals 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 Committee on Appeals 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 Committee on Appeals

All appeals directed to the Senate Committee on Appeals 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 Secretary of the Senate Committee on Appeals, 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. The fee will be refunded only if the appeal is successful.

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 mailing 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 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 Committee on Appeals

Meetings of the Senate Committee on Appeals are held *in camera* (not open to the public).

Students appealing to the Senate Committee on Appeals 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 Secretary of the Committee 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 Committee on Appeals.

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

The Senate Committee on Appeals 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 Committee on Appeals.

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 Committee on Appeals.

The decision of the Committee 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 Adult Education  
Bachelor of Arts (Honours and Pass)  
Bachelor of Arts with a Major  
Bachelor of Business Administration (Honours)  
Bachelor of Business Administration  
Bachelor of Business Economics (Honours)  
Bachelor of Computing and Business (Honours)  
Bachelor of Education  
Bachelor of General and Applied Studies  
Bachelor of Kinesiology (Honours)  
Bachelor of Kinesiology  
Bachelor of Music (Honours)  
Bachelor of Physical Education (Honours)  
Bachelor of Physical Education with a Major  
Bachelor of Recreation and Leisure Studies (Honours and Pass)  
Bachelor of Science (Honours and Pass)  
Bachelor of Science with a Major  
Bachelor of Science in Nursing  
Bachelor of Sport Management (Honours and Pass)  
Bachelor of Tourism Studies (Honours)  
Bachelor of Tourism Studies

## Concurrent degrees

Bachelor of Arts (Honours and Pass) and Bachelor of Education  
Bachelor of Science (Honours) and Bachelor of Education  
Bachelor of Physical Education (Honours) and Bachelor of Education  
Bachelor of Science (Pass) and Bachelor of Education

## Certificates

Adult Education (Education - Centre for Adult Studies and Distance Learning)  
Adult Education with an Aboriginal Focus (Education - Centre for Adult Studies and Distance Learning)  
Drama in Education (Department of Dramatic Arts)  
Criminology and Moral Regulation (Department of Sociology)  
Enterprise Education (Department of Pre-service Education)  
Environment (Centre for the Environment)  
Grape and Wine Technology (Oenology and Viticulture)  
Great Books/Liberal Studies (Centre for Great Books/Liberal Studies)  
Labour Studies (Centre for Labour Studies)  
Public Administration (Department of Political Science)  
Public Law (Department of Political Science)  
Statistics (Department of Mathematics)  
Teaching English as a Second Language (Department of Applied Language Studies)  
Women's Studies (Centre for Women's Studies)  
Professional Writing (Department of English Language and Literature)

# Admissions

For inquiries:  
Telephone 905-688-5550, extension 3434  
or 4991  
Fax: 905-988-5488  
E-mail: [admissns@brocku.ca](mailto:admissns@brocku.ca)  
<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

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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 forms 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

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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 high 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 Committee on Admissions 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 Admissions Office.

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## III. Application Deadline

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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. 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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**1. Ontario secondary school applicants**  
OUAC 101 application forms are available at high 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 through the Office of the Registrar (or on-line at <http://compass.ouac.on.ca>) for previous high school matriculants, mature applicants, transfer, out-of-province and international students. The application form and appropriate fee must be forwarded to:

Ontario Universities' Application Centre,  
170 Research Lane, Guelph, Ontario,  
N1G 5E2.

It should be noted that there is a \$15 fee for assessment of previous university or college transcripts for full-time applicants 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 an overall 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 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 and certificate applicants**

Part-time degree applicants, as well as those seeking admission to certificate programs should contact the Office of the Registrar to obtain the proper application form and to discuss their admission and program objectives.

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 (i.e., marriage certificate, notarized statement or other legal document) is provided if academic documents show a name other than that under which application is made
- evidence of proficiency in English is 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 registrations 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.

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**V. Admission to Undergraduate Degree Studies**

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**1. Ontario Academic Courses (OAC)**

Ontario secondary school students must present the Ontario Secondary School Diploma (OSSD). An overall average of 60 percent on six Ontario Academic Courses, or under the new curriculum, 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.

High 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 OAC or Grade 12 U and 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 five or better.

*E. United States*

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

*F. India, Pakistan and Bangladesh*

Applicants are considered for admission on the basis of:

- grade 12 secondary school with Division 1 or "A" standing or
- first year of a recognized university program with transfer credit being awarded for appropriate courses

All applicants must meet the minimum TOEFL requirements, or equivalent, for international students whose first language is not English.

*G. Other countries*

Applicants from areas other than those noted above will be evaluated on an individual basis. Original or certified true copies of transcripts are required including official English translations (where required).

**3. Transfer from other universities**

*A. Canadian universities*

Applicants wishing to transfer to Brock from degree programs at other Canadian universities must normally offer the equivalent of an overall average of 60 percent as a minimum with a higher average being required where enrolments are limited. Applicants must also be

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eligible to reregister at their home 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 70 percent overall, or a 70 percent average 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 one-half credits may be awarded.

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

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.

The awarding of transfer credit is based primarily upon:

- the compatibility of the previous college program with the Brock program
- course content
- 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:

- career ambitions
- work experiences
- 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 Academic Courses (six), or under the new secondary school curriculum six 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 OACs or, 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 Committee on Admissions.

### **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 then 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*

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

- a minimum 70 percent average in English OAC 1, Grade 12 U English or Grade 12 English in another province in Canada
- a minimum of three years of full-time study, with satisfactory academic standing, in an English language school system (where the primary language of instruction and evaluation was English)
- completion of the International Baccalaureate diploma where English was the language of instruction
- achievement of a regular (R) placement category on the Canadian Academic English Language Assessment (CAEL) or completion of the York English Language Test (YELT) with an overall category of 1 or 2

- TOEFL (Test of English as a Foreign Language), TOEFL CBT (Computer-based Test), MELAB (Michigan English Language Assessment Battery), or IELTS (International Language Testing System) scores. Normally, only those with TOEFL scores of 550 or greater, TOEFL CBT scores of 213 or greater, MELAB scores of 85 or greater and IELTS scores of 6.5 or greater will be considered for admission

- successful completion of Level 5 of the Brock Intensive English Language Program

International students with scores below TOEFL 580, TOEFL CBT 237, MELAB 90, IELTS 7.0 are required as a condition of registration to enrol in APLS 1P80 and 1P81 in year 1 along with a maximum of four other credits.

Students from the Intensive English Language Program entering on the recommendation of the Director may be required to enrol in APLS 1P80 and 1P81 in year 1 along with a maximum of four other credits.

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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 visas 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, British consular offices or directly from the Immigration division, Citizenship and Immigration department, Ottawa, Ontario, Canada.

## Admissions Criteria

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

The above general admission requirements apply to all undergraduate programs. Faculty/Program-Specific Prerequisites follow below. Please note that these are minimum requirements only and are subject to change. Admission is not guaranteed.

Faculty/Program-Specific Prerequisites		
Faculty/Program	Current Curriculum	New Curriculum
<b>Faculty of Applied Health Sciences</b>		
<b>Child Health (BA)</b>	Required OAC Subjects: <ul style="list-style-type: none"> <li>• English OAC 1 and Biology.</li> </ul>	Required Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• English and Biology.</li> </ul>
<b>Community Health (BA)</b>	Required OAC Subjects: <ul style="list-style-type: none"> <li>• English OAC 1 and one of Biology, Chemistry or one Mathematics.</li> </ul> Recommended OAC Subjects: <ul style="list-style-type: none"> <li>• Biology (if not one of above) and Physical and Health Education.</li> </ul>	Required Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• English and one of Biology, Chemistry, Physics, one Mathematics or M Science 12.</li> </ul> Recommended Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• Biology (if not one of above) and Exercise Science.</li> </ul>
<b>Health Sciences (BSc)</b>	Required OAC Subjects: <ul style="list-style-type: none"> <li>• English OAC 1, Biology, and two from Chemistry, Mathematics or Physics.</li> </ul> Recommended OAC Subjects: <ul style="list-style-type: none"> <li>• Chemistry (if not one of above) and Physical and Health Education.</li> </ul>	Required Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• English, Biology and two from Chemistry, one Mathematics or Physics.</li> </ul> Recommended Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• Chemistry (if not one of above) and Exercise Science.</li> </ul>
<b>Kinesiology (BKin)</b>	Required OAC Subjects: <ul style="list-style-type: none"> <li>• English OAC 1, Biology and one Mathematics.</li> </ul> Recommended OAC Subjects: <ul style="list-style-type: none"> <li>• Physical and Health Education.</li> </ul>	Required Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• English, Biology and one Mathematics.</li> </ul> Recommended Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• Exercise Science.</li> </ul>
<b>Nursing (BScN) – Collaborative Program with Loyalist CAAT</b>	Required OAC Subjects: <ul style="list-style-type: none"> <li>• English OAC 1, Biology and Chemistry (minimum 70% in each of the required courses).</li> </ul> Recommended OAC Subjects: <ul style="list-style-type: none"> <li>• One Mathematics.</li> </ul>	Required Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• English, Biology and Chemistry (minimum 70% in each of the required courses).</li> </ul> Recommended Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• One Mathematics.</li> </ul>
<b>Physical Education (BPhEd)</b>	Required OAC Subjects: <ul style="list-style-type: none"> <li>• English OAC 1.</li> </ul> Recommended OAC Subjects: <ul style="list-style-type: none"> <li>• Physical and Health Education.</li> </ul>	Required Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• English.</li> </ul> Recommended Grade 12 U Subjects: <ul style="list-style-type: none"> <li>• Exercise Science.</li> </ul>

<p><b>Recreation and Leisure Studies (BRLS)</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> </ul>
<p><b>Sport Management (BSM) Sport Management (BSM) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> <li>Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> <li>Resume required for Co-op.</li> </ul>
<p><b>Tourism Studies (BTS)</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> </ul>
<p><b>Workplace Health (BA) Workplace Health (BA) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1, Biology and one Mathematics.</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>Physical and Health Education.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English, Biology and one Mathematics.</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>Exercise Science.</li> </ul>
<p><b>Faculty of Business</b></p>		
<p><b>Accounting (BAcc) Accounting (BAcc) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1 and one Mathematics (Calculus or Finite Math preferred).</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>A second Mathematics.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English and one Mathematics (Advanced Functions and Introductory Calculus or Geometry and Discrete Mathematics preferred).</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>A second Mathematics.</li> </ul>
<p><b>Business Administration (BBA) Business Administration (BBA) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1 and one Mathematics (Calculus or Finite Math preferred).</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>A second Mathematics.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English and one Mathematics (Advanced Functions and Introductory Calculus or Geometry and Discrete Mathematics preferred).</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>A second Mathematics.</li> </ul>

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<b>Faculty of Education</b>		
<b>Concurrent Child and Youth Studies BA/BEEd (P/J level)</b>	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 of 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.	
<b>Concurrent French Teaching Specialization BA(honours)/BEEd (I/S level)</b>	Students must maintain a 75% overall average in each year in all academic grade-marked courses. Program includes a year of study in a French-speaking environment as approved by the Department of Modern Languages, Literatures and Culture. See Faculty of Humanities for more details.	
<b>Concurrent BPhEd(honours)/BEEd (P/J level)</b>	Students must complete the common first year in the Physical Education program before applying for admission to the BPhEd(honours)/BEEd program. Admission will be based on a minimum of 75% overall average on a minimum of 5.0 credits and a minimum grade of 70% in both PEKN 1P90 and 1P93.	
<b>Concurrent BSc/BEEd (J/I level)</b>	Students admitted directly from secondary school. See Faculty of Mathematics and Science for more details. Students may apply to enter year 2 if their overall year 1 average is 75% or above and their year 1 program has closely matched that of the year 1 course requirements of the BSc/BEEd program.	
<b>Faculty of Humanities</b>		
<b>Applied Language Studies, Canadian Studies, Classics, Contemporary Cultural Studies, English, French, German, Great Books/Liberal Studies, History, Italian, Philosophy, Spanish (BA)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• History and a second language.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One History, Philosophy or one Classical Studies and International Languages.</li> </ul>
<b>Concurrent French Teaching Specialization BA(honours)/BEEd</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1 and French.</li> <li>• For teaching at the Intermediate/Senior level (grade 7-12).</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English and French.</li> <li>• For teaching at the Intermediate/Senior level (grade 7-12).</li> </ul>
<b>Dramatic Arts (BA) Dramatic Arts (BA) Co-op (Drama in Education; Dramatic Literature; Theatre)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> <li>• Successful completion of audition.</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• History and a second language.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> <li>• Successful completion of audition.</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One History, Philosophy or Classical Studies and International Languages.</li> </ul>
<b>Music (BMus and BA)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> <li>• Theory placement test (Royal Conservatory Grade II level) and aural skills test must be passed. Audition required for applied music.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• History and a second language.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> <li>• Theory placement test (Royal Conservatory Grade II level) and aural skills test must be passed. Audition required for applied music.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One History, Philosophy or one Classical Studies and International Languages.</li> </ul>

<b>Visual Arts (BA)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> <li>Satisfactory portfolio submission and interview.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>History and a second language.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> <li>Satisfactory portfolio submission and interview.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>One History, Philosophy or one Classical Studies and International Languages.</li> </ul>
<b>Faculty of Social Sciences</b>		
<b>Economics, Environmental Economics, Environment, Geography, Labour Studies, Political Science, Sociology, Women's Studies (BA)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>For Economics and Environmental Economics majors - one Mathematics (Finite preferred).</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>For Economics and Environment – Environmental Economics majors one Mathematics (Advanced Functions and Introductory Calculus preferred).</li> </ul>
<b>Business Economics (BBE) Business Economics (BBE) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1 and one Mathematics (minimum 65%).</li> <li>Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English and one Mathematics (minimum 65%).</li> <li>Resume required for Co-op.</li> </ul>
<b>Child and Youth Studies (BA)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>One Mathematics.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>Mathematics of Data Management.</li> </ul>
<b>Communications Studies (BA) Communications Studies (BA) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> <li>Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> <li>Resume required for Co-op.</li> </ul>
<b>Film (BA) Film Co-op (BA)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> <li>Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> <li>Resume required for Co-op.</li> </ul>
<b>Physical Geography (BSc)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>One Mathematics (minimum 70% required) and one from Biology, Physics or Chemistry.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>One Mathematics (minimum 70% required) and one from Biology, Physics, Chemistry or Earth and Space Science.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> </ul>
<b>Psychology (BA) Psychology (BA) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>English OAC 1.</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>One Mathematics.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>English.</li> <li>Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>Mathematics of Data Management.</li> </ul>

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<b>Faculty of Mathematics &amp; Sciences</b>		
<b>Biological Sciences (BSc); Biochemistry (BSc);</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and three from Biology, Chemistry, a second Mathematics or Physics.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and three from Biology, Chemistry, a second Mathematics or Physics.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> </ul>
<b>Biotechnology (BSc) Biotechnology (BSc) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and three from Biology, Chemistry, a second Mathematics or Physics (<i>75% average in each course required for Co-op</i>).</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and three from Biology, Chemistry, a second Mathematics or Physics (<i>75% average in each course required for Co-op</i>).</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> </ul>
<b>Concurrent BSc/BEd -Sciences</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Minimum average of 80% on four courses including two Sciences, one Mathematics (Calculus is required for Chemistry and Physics) and English OAC 1.</li> <li>• For teaching at the junior/intermediate level (grade 4 –10).</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Calculus strongly recommended for Biology and Earth Sciences.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Minimum average of 80% on four courses including two Sciences, one Mathematics (Advanced Functions and Introductory Calculus required for Chemistry and Physics) and English.</li> <li>• For teaching at the junior/intermediate level (grade 4 –10).</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Advanced Functions and Introductory Calculus strongly recommended for Biology and Earth Sciences.</li> </ul>
<b>Concurrent BSc/BEd – Mathematics program</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Minimum average of 80% on four courses including two Mathematics (including Calculus), one Science and English OAC 1.</li> <li>• For teaching at the junior/intermediate level (grade 4 –10).</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• A third Mathematics.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Minimum average of 80% on four courses including Advanced Functions and Introductory Calculus, another Mathematics (Geometry and Discrete Math preferred), English and one Science.</li> <li>• For teaching at the junior/intermediate level (grade 4 –10).</li> </ul>
<b>Chemistry (BSc) Chemistry (BSc) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry, Physics and two Mathematics including Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• A third Mathematics and English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry, Physics and two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English and a third Mathematics.</li> </ul>

<p><b>Computer Science (BSc)</b> <b>Computer Science (BSc) Co-op</b></p>	<p>Required OAC Subjects for BSc Honours:</p> <ul style="list-style-type: none"> <li>• Two Mathematics including Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul> <p>Required OAC Subjects for BSc:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required).</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects for BSc Honours:</p> <ul style="list-style-type: none"> <li>• Two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul> <p>Required Grade 12 U Subjects for BSc:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required).</li> </ul> <p>Recommended Grade 12 U or M Subjects:</p> <ul style="list-style-type: none"> <li>• English and Computer and Information Sciences.</li> </ul>
<p><b>Computing and Business (BCB)</b> <b>Computing and Business (BCB) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1 and two Mathematics averaging 75%.</li> <li>• Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English and two Mathematics averaging 75%.</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U and M Subjects:</p> <ul style="list-style-type: none"> <li>• Computer and Information Sciences.</li> </ul>
<p><b>Computer Science and Mathematics (BSc) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English and two Mathematics (minimum 75% in each).</li> <li>• Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English and two Mathematics (minimum 75% average in each).</li> <li>• Resume required for Co-op.</li> </ul>
<p><b>Computing and Solid State Device Technology (BSc)</b> <b>Computing and Solid State Device Technology (BSc) Co-op</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Minimum 75% in Physics and two Mathematics, including Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Minimum 75% in Physics and two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul>
<p><b>Earth Sciences (BSc)</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and one from Biology, Physics, Geology or Chemistry.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• A second Mathematics and English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and one from Biology, Physics, Chemistry or Earth and Space Science.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• A second Mathematics and English.</li> </ul>
<p><b>Environmental Geosciences (BSc)</b></p>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and one from Biology, Physics, Geology or Chemistry.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• A second Mathematics and English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and one from Biology, Physics, Chemistry or Earth and Space Science.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• A second Mathematics and English.</li> </ul>

<b>Applied Environmental Science and Technology (BSc) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry and one Mathematics (minimum 70% required) and two from Biology, Geography or Physics.</li> <li>• Resume required.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry and one Mathematics (minimum 70% required) and two from Biology, Geography or Physics.</li> <li>• Resume required.</li> </ul>
<b>Environment (BSc)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry and one Mathematics (minimum 70% required), plus two from Biology, Geography or Physics.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry and one Mathematics (minimum 70% required) plus two from Biology, Geography or Physics.</li> </ul>
<b>Health Sciences (BSc)</b>	<i>See Faculty of Applied Health Sciences</i>	
<b>Mathematics (BSc)</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Two Mathematics including Calculus (minimum 70% average on at least one Mathematics required).</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• A third Mathematics and English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Advanced Functions and Introductory Calculus and a second Mathematics, Geometry and Discrete Mathematics preferred (minimum of 70% in each course).</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> </ul>
<b>Neuroscience (BSc) Neuroscience (BSc) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Biology, Chemistry and either one Mathematics (minimum 70% required) or Physics.</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Biology, Chemistry and either one Mathematics (minimum 70% required) or Physics.</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• English.</li> </ul>
<b>Oenology &amp; Viticulture (BSc) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and three from Biology, Chemistry, Physics or a second Mathematics.</li> <li>• Resume required.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• One Mathematics (minimum 70% required) and three from Biology, Chemistry, Physics or a second Mathematics.</li> <li>• Resume required.</li> </ul>
<b>Physical Geography (BSc)</b>	<i>See Faculty of Social Sciences</i>	
<b>Physics (BSc) Physics (BSc) Co-op</b>	<p>Required OAC Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry, Physics and two Mathematics including Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended OAC Subjects:</p> <ul style="list-style-type: none"> <li>• A third Mathematics and English OAC 1.</li> </ul>	<p>Required Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• Chemistry, Physics and two Mathematics including Advanced Functions and Introductory Calculus (minimum 70% on at least one Mathematics required).</li> <li>• Resume required for Co-op.</li> </ul> <p>Recommended Grade 12 U Subjects:</p> <ul style="list-style-type: none"> <li>• A third Mathematics and English.</li> </ul>



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

## I. Definitions

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 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. A person's status in a particular situation shall be determined by Brock 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 term "Discipline Officer" means 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 the sole 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

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 seeks to support the above principles by outlining student responsibilities, rights and privileges, by detailing specific behaviours which are unacceptable and by describing the disciplinary procedures for dealing with infractions of the Code. Brock University is a community which exercises jurisdiction and authority on campus as far as it is necessary to ensure a safe and orderly operation of the University.

## III. Student Responsibilities, Rights and Privileges

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 full, equal and fair hearing by an impartial tribunal for any disciplinary charges brought against him or her under University regulations. Every student who is charged with a disciplinary offense has a right to present a defence. Particularly 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 Counselling, Confidentiality and Security of Library Records.

**6. Safety**

The University is committed to maintaining 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.

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**IV. Non-Academic Misconduct**

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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 means whatsoever, 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 abuse 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, safety or well-being 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 Police may charge students under the Trespass to Property Act.

**6. Damage and Destruction of Property**

**No student shall:**

- misappropriat , 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
- be found in possession of 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 the opportunity to have 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 anyway

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deprive others of the opportunity to have 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 a University official acting in the course of that person's duties.

### 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 liable for that infraction.

### 12. False Charges

No student shall bring a false charge against any member of the University community.

### 13. Misconduct Related to the Use of Alcohol

No student shall:

- be intoxicated on University premises
- 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
- be in possession of or consume alcoholic beverages at an event designated as a "dry" event
- be in possession of or consume alcoholic beverages while not in possession of authorized admission to a pub or event
- consume alcohol anywhere on campus if under the age of 19 years
- knowingly furnish alcoholic beverages to any person under the age of 19 years

NOTE: Intoxication is never grounds for leniency. Rather, excessive drinking itself 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 consent or authority of the University or the rightful owner
- use, possess, or distribute a narcotic or other controlled substance except as expressly permitted by law
- 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. Failure to comply

No student shall:

- fail to comply with directions of University Officials, Campus Police, 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
- fail to comply with the sanction imposed
- influence or attempt to influence another person to commit an abuse of the discipline system

If the panel deems any of the above offences to have occurred during the course of a disciplinary proceeding, there will be an immediate and automatic doubling of all sanctions.

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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 students' behaviour affects others' use and enjoyment of University privileges and facilities. Pending convening of a Discipline Panel hearing, the Associate Vice-President (Student Services) or the Vice-President (Academic) 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 are 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 in the student's continued presence, that damage to University property is likely, or that the continued presence of the student would be disruptive. Upon such a decision, 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 should 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 for discipline appointments with proper notice and an escort.

### 2. Criminal Offenses

Criminal offenses committed on the University campus against persons or property reported to Brock University Campus Police normally will be dealt with according to the law. When a student is involved, Campus Police will notify the Associate Vice-President (Student Services). The Associate Vice-President (Student Services) will determine if the matter may be 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:

- a period of service to the University or the Students' Union to a maximum of 3 hours (by the Chief of Campus Police 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 University Discipline 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 University Discipline Officer when:

- satisfactory resolution of minor allegations and sanctions cannot be achieved between the student and the University official
- minor infractions are repeated by the same student
- the University official believes the infraction warrants a sanction greater than the minor offense sanctions listed in Section V.

Any University Officials who apply these minor sanctions shall report to the Associate Vice-President (Student Services) annually in May regarding the number and type of minor sanctions imposed in the preceding 12 months.

**3. Other University Offense Procedures**

Notice of an alleged offense under the Code may be filed with the University Discipline Officer by any member of the Brock community within 10 business days of the incident in question. This time period for filing an alleged offense may be extended at the discretion of either the Associate Vice President Student Services or the Discipline Officer. Incident report forms must be completed in full and are available from the University Discipline Officer.

The University Discipline Officer may:

- dismiss the matter
- interview the student independently and 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 believe that they have been treated in an unfair or otherwise inappropriate manner 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

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administrator of the office. Where this seems inappropriate or 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 which have not been referred to the University Discipline Officer and the University Discipline Panel.

### 3. Minor Offense Appeals

The University Discipline Panel will act as the avenue of appeal for minor offenses where sanctions were applied by departmental officers. Students should forward their written appeal within 10 working days of receiving their sanction to the University Discipline Officer, c/o the Office of the Associate Vice-President (Student Services).

### 4. 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 the appellant or complainant believes the sanction(s) imposed were inappropriate for the violation;
- where the student can demonstrate that the facts of the case were insufficient to establish that a violation of the Code of Student Conduct occurred
- where new evidence which was not available to a party at the time of the original hearing has been discovered, or where a breach of natural justice has occurred (Note: natural justice has two elements, the rule against bias and the right to a hearing);

AND

- where the outcome of the case at the original hearing might have been

substantially affected by any of these circumstances.

### 5. 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) will 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
- 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) will contact the student and arrange a meeting time with the student to review the appeal;
- 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 twice annually, in the fall and 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).

The University Discipline Officer, and a back-up University Discipline Officer, are appointed by the Associate Vice-President (Student Services) from University staff or faculty. The current University Discipline Officer is Ms. Cathie Closs, Director, Student Development Centre, 4th floor, Schmon Tower. The current back-up Discipline Officer is Ms. Leanne Perry, Residence Life Coordinator, Residences Department.

### 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 University Discipline Officer serves as a voting member and senior University Discipline 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 Office of the Associate Vice-President (Student Services) for a period of up to four years after the student graduates or ceases to be a student.

# Academic Computing Information

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## I. Computing Access for Students

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Students may obtain a user code for access to the Badger server. This user code will authorize electronic mail (E-mail) and Internet access from within and outside the University. There is no charge for access from within the University; the charge for access from outside the University is on a "per hour" basis. Such a user code is to be regarded as a privilege, not a right.

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## 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 content of this document. Further clarification of any points should be addressed to the Chair, Senate Committee on Computing and Communications Policy, in care of the University Secretary.

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## III. Computer Based Training

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All Brock students have access to computer based training modules covering a wide range of topics in computer use. The modules can be used to enhance course material and leads to Microsoft certification at a variety of levels.



# Your Career Begins Here: Experiential Learning Opportunities at Brock University

## I. Overview of Experiential Learning at Brock

Brock University is committed to our promise to students: Your Career Begins Here. We offer a variety of Experiential Learning Opportunities for student employment and career preparation, on and off campus. Experiential learning at Brock incorporates both alternatives that are integral to students' academic programs, and alternatives that are optional, non-credit services for students.

Academic experiential learning opportunities are offered by each of the Faculties and include:

- Co-op degree programs
- Internship degree programs
- Teaching placements
- Course-based internships and field work projects

Non-credit experiential opportunities for current students are co-ordinated in Student Services and include:

- Experience Plus
- Skills Plus
- Volunteers Plus
- Med Plus

Experiential learning at Brock is designed to develop students' skills as productive, competent, responsible and reputable graduates that are well prepared for the workplace.

## II. Co-op and Internship Programs

### 1. Co-operative Programs Office

*Director*  
Cindy Dunne

*Taro 4<sup>th</sup> Floor, extension 4325*  
*Hours: Monday–Friday, 8:30–4:30*  
*E-mail: coop@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 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 yr)

Applied Environmental Science and Technology  
(BSc Honours, 4.5 yr)

Biotechnology  
(BSc Honours, 4.5 yr)

Business Administration  
(BBA Honours, 4.5 yr)

Business Economics  
(BBE, 4.5 yr)

Chemistry  
(BSc Honours, 5 yr)

## YOUR CAREER BEGINS HERE

Communications, Business Communications  
(BA Honours, 4 yr)

Communications - Information Technology  
(BA Honours, 4 yr)

Communications - Media and Culture  
(BA Honours, 4 yr)

Communications - Communications  
Policy  
(BA Honours, 4 yr)

Computer Science  
(BSc Honours, 4.5 yr)

Computing and Business  
(BCB Honours, 4 1/2 yr)

Computing and Solid-State Device  
Technology  
(BSc Honours, 4 1/2 yr)

Dramatic Arts  
Dramatic Literature  
Drama and Theatre in Education  
(Theatre)  
(BA Honours, 5yr)

Film Studies  
(BA Honours, 4.5 yr)

Neuroscience  
(BSc Honours, 4.5-5 yr)

Oenology and Viticulture  
(BSc Honours, 4.5 yr)

Physics  
BSc Honours, 4.5 yr)

Popular Culture  
(BA Honours, 4 yr)

Psychology  
(BA Honours, 5 yr)

Sport Management  
(BSM Honours, 4.5 yr)

Workplace Health  
(BA Honours, 4.5 yr)

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

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#### 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.

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### IV. Experience Plus: Part-time Experiential Learning

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#### 1. Career Services Office

*Director*  
Amy Elder  
Career Services

*Schmon Tower 411, extension 3242*

*Hours:*

*Monday-Friday: 8:30 a.m. – 4:30 p.m.*

*Tuesdays, Wednesdays: 8:30 a.m. – 7:00 p.m.*

*E-mail: [careers@www.brocku.ca](mailto:careers@www.brocku.ca)*

*Website: [www.brocku.ca/career](http://www.brocku.ca/career)*

Career Services works on students' behalf by offering the following services:

- Career Planning: individual career exploration, personal assessment and employment preparation
- Experience Plus: students can start building their Experience Plus official record in first year, and add to it every year with volunteer experience, skills workshops, paid on-campus jobs
- Community Plus: on-line posting service of part-time and summer jobs, and full-time jobs for graduating students
- Volunteers Plus: on-line posting service for on-campus and community volunteer placements (eligible for inclusion on students' Experience Plus records) and annual Volunteer Fair provides students who are seeking volunteer positions with the opportunity to learn valuable skills enhancing their employability skills
- Skills Plus: build employability skills through workshops related to: on-line computer training, service training, teaching skills, resume writing, leadership, interviewing skills, and many more (all eligible for inclusion on students' Experience Plus records)
- Career Services Drop-In Resource Centre at ST 411: career and employment resources, computer access to web posting services and Experience Plus, interview and job search assistance
- Graduate Education Fair in November: explore opportunities in graduate studies and professional degrees and certificates with over 60 representatives from

universities, colleges across North America and Internationally

- Career Fairs: students bring their resumes and meet prospective employers across the region and beyond, accessing recruiters from a variety of industries and careers, maximizing students opportunities to get the job they want
- Med Plus: a unique program for students interested in a career in medicine or health.

## 2. What is Experience Plus?

*Experience Plus Coordinator*  
Julie Fennell  
Career Services

*Schmon Tower 411, extension 4414*

*Hours:*

*Monday-Friday: 8:30 a.m. – 4:30 p.m.*

*Tuesday, Wednesdays: 8:30 a.m. – 7:00 p.m.*

*E-mail: careers@www.brocku.ca*

*Website: www.brocku.ca/career*

The Experience Plus program is a non-credit opportunity for students to prepare for their future careers. Experience Plus was created to:

- centralize on-campus job and volunteer postings so students know what is available
- register individual students' interests in paid or volunteer work, so that Career Services can notify them by E-mail when suitable opportunities become available
- enhance students' future employability with practical experience now;
- help students try out a variety of career streams
- assist students with their job search after graduation by documenting their experience on an individual Experience Plus record
- support students' academics through increased campus involvement and commitment

Experience Plus is open to all Brock University students. Students participate to the level of their interest. Experience Plus activities are pursued on a part-time basis, in parallel with students' academic studies.

Students interested in participating in Experience Plus should visit the Career Services web site to register as an Experience Plus student. We recommend students use Experience Plus to build a strong resume over the four years of their university experience, by participating in a variety of practical experiences that build

employability skills. Any of the following opportunities are eligible for inclusion on students' Experience Plus records:

- approved campus leadership activities
- campus paid jobs (Note: some positions are restricted to students in financial need)
- Volunteers Plus non-paid activities on campus and in the community
- course-based community placements (with the agreement of the instructor);
- Skills Plus workshops training

Career Services helps students use their Experience Plus record, combined with their other off-campus employment and experience, to build a Career Portfolio for a competitive edge in the work place.

## 3. What is Skills Plus?

Skills Plus is offered by Career Services to centralize students' access to the many workshops and opportunities offered by various campus departments. Skills Plus focuses on employability skills development for Brock students. All Skills Plus workshops are eligible for inclusion on students' Experience Plus records, including:

- Foundation in Leadership practicum series (Student Development Centre)
- Partners workshop series on service training (Human Resources and Career Services)
- Certificate in Teaching and Learning in Higher Education (Centre for Teaching and Learning)
- Employability skills development: Career Planning, Career Search, Interview and Resume Skills, Internet Job Search (Career Services)

## 4. What is Volunteers Plus?

Volunteers Plus is offered by Career Services to centralize students' access to the many service opportunities offered by various campus organizations and by many organizations in the community. All Volunteers Plus activities are eligible for inclusion on students' Experience Plus records with the appropriate documentation. Students are encouraged to participate in Volunteers Plus at some point in their Experience Plus activities. Volunteering provides excellent experience for career development. Many employers look very favourably on applicants who can demonstrate volunteer experience as well as paid work experience.

## 5. Records and Fees Policy

Career Services at Brock University produces an Experience Plus record to record the employability skills that students develop through workshops, computer training, volunteering, paid jobs, and leadership activities on campus. To create this Experience Plus record, students must sign up as a member on the Experience Plus web site, ensure that they complete with each of their campus employers/professors the verification form for Experience Plus, ask their employer to send these forms to the Experience Plus Coordinator in Career Services, and contact Career Services annually to ensure their Experience Plus record is complete. Students use their Experience Plus record as a key part of their career portfolio to find both summer jobs and employment after graduation. Currently, students pay nominal fees for workshops and copies of their Experience Plus record.

## V. Med Experience Plus

*Co-ordinator*  
Dan Malleck, PhD,  
Career Services

*Schmon Tower 411, extension 3106*

*Hours*

*Monday- Friday: 8:30 a.m. – 4:30 p.m.*

*Tuesdays, Wednesdays: 8:30 a.m. – 7:00 p.m.*

*E-mail: careers@www.brocku.ca*

*Website: www.brocku.ca/career*

### 1. What is Med Plus?

Med Experience Plus at Brock is a fee-based, non-credit part-time program of activities that runs concurrently with each year of the Brock academic degree program. It is designed to enhance students' studies, and their eligibility for their chosen health-care field, by providing practical experience with:

- site visits to hospitals, social service agencies and community health centres
- volunteer placements to gain valuable experience
- presentations by physicians and other health professionals

## YOUR CAREER BEGINS HERE

- workshops in first aid, CPR, allied health care
- workshops in communications, team work and self-awareness
- current medical student mentors
- personalized program counselling and information on admissions to medical school
- University-validated documentation of your Med Plus experiences Med Plus is a community-based programme that draws on the resources of the Niagara region (physicians/public health/social services/hospitals) for speakers, workshops, site visits, and volunteer placements.

### 2. Application to Med Plus

Med Experience Plus is a limited enrolment program and requires a separate application. Admission is competitive; minimum requirements for consideration include:

- a minimum 80% average, as indicated by an official transcript of marks
- a strong interest in pursuing medicine or another health-related career, as indicated by a one page Statement of Interest and a confidential letter of reference, to be submitted with the application
- application deadline is April 1st each year

New students are admitted in September to the first year of Med Plus.

### 3. Continuation in Med Plus

Once admitted, students must participate in the full mandatory curriculum. The Med Plus program runs from September to April, over four years. Med Plus students who withdraw from the program forego their place, which is reassigned to a student on the waiting list.

A significant strength of the Med Plus program is developing an understanding of team work 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% to continue in the program each year.

### 4. Records and Fees Policy

Students receive an official Med Experience 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 annual fee is \$600; students may expect annual fee increases in the order of 10%. 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.

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# Scholarships, Bursaries, Awards and Financial Assistance

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## Administration of Awards

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Awards which 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.

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## To Prospective Donors

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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

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## Scholarships

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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 Awards and Bursaries. 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/registrar/financial/scholarship.html](http://www.brocku.ca/registrar/financial/scholarship.html)

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

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### 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 OACs used to establish the student's 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 Awards and Bursaries. Notification of an award is made together with the offer of admission.

Brock Entrance Scholars Award/Brock International 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 2002 entry are:

\$10,000 (\$2500 per year\*\*) for averages 94.0%+

\$8,000 (\$2000 per year\*\*) for averages 90.0% – 93.9%

\$2,500 (\$1000 in year one, \$500 for year 2, 3, and 4\*\*) for averages 86.0% – 89.9%

\$2,050 (\$1000 in year one, \$350 for years 2, 3 and 4\*\*) for averages 80.0% – 85.9%

Students pursuing a pass degree will receive two renewals.

\*\*Renewable if student maintains an 80% average on a minimum of 4.0 credits in the Fall/Winter session.

### Brock International Baccalaureate (IB) Scholars Award

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 Transfer Scholars Award

Awarded to students transferring to Brock University from another Canadian post-secondary institution with an A average and an equivalent to first-year standing. Offers are made based on post-secondary grades available at the time of admission. Applicants must also submit a *Student Profile* before the final award is made.

Transfer Average	Amount	Paid Per Year
94.0% and above	\$4,500	\$1,500
90.0%-93.9%	\$3,000	\$1,000
85.0%-89.9%	\$1,650	\$550
80.0%-84.9%	\$1,050	\$350

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### **Burgoyne Family Scholarships**

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%. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Burgoyne Holdings Limited

Established: 1997

Endowed: 1997

### **Columbia International College Entrance Scholarship**

Value: \$3000. Awarded to the four entering students with the highest admit average from the Columbia International College. Students must have a minimum average of 80% to qualify. This scholarship would replace the Brock Entrance Scholarship and may be renewable, at a lower value, if the student enters with a 90% average or higher.

Established: 1998

### **Edith and Bernard Ennis Scholarship**

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 OSAP 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.

### **A. Stoddard Jones Scholarship**

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.

Donors: Mr. and Mrs. A. Stoddard Jones

Established: 1998

Endowed: 1998

### **Kerrio Family Scholarship**

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 OSAP residency requirements.

Donor: Can Mar Manufacturing Inc.

Established: 1997

Endowed: 1997

### **H. H. Knoll Scholarships**

Value: \$980\* each. Two scholarships: 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**

Value: \$1300\*. Awarded to a student with an outstanding record of merit entering an undergraduate program.

Donors: Brock University Faculty and Staff 1993

Established: 1993

Endowed: 1996

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

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 Scholarships**

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**

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. Student must meet minimum academic requirements. While a student may receive this scholarship more than once, preference will be given to first-time recipients.

### **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.

### **Silver Badger Legacy Scholarship**

Value: \$400. Awarded to a student entering first year at Brock University with an outstanding academic record.

Established: 1992

### **Walker Industries Scholarship**

Value: \$5000\*. Awarded annually, by application to a student who is entering their first-year of study at Brock and is a child of an employee of Walker Industries Holdings Limited. Should no applicant satisfy these terms, the award shall be made to a student who is entering their first-year of study at Brock and is a resident of the Niagara Region. Applicants must demonstrate financial need and meet OSAP residency requirements. Please indicate your relationship to a Walker Industries employee within the comments section of your application.

Donor: Dr. Norris Walker

Established: 1997

Endowed: 1997

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## **In-Course Scholarships for Returning Students**

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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%. Students with special needs who are full-time but carrying fewer than four credits because of the impact of a disability, as

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

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 Awards and Bursaries.

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 <http://www.brocku.ca/registrar> for more information.

### **Brock Returning Scholars Award**

Awarded to continuing full-time undergraduate students who have attained a minimum of 80.0% on 4.0 or more credits in the previous Fall and Winter Sessions.

\$1500 for averages over 93.9%  
\$1000 for averages above 89.9%  
\$550 for averages above 84.9%  
\$350 for averages above 79.9%

Students receiving a renewal of any of a Brock Scholar, Brock International Scholar, Brock Transfer Scholars Award will not receive a Returning Scholars Award.

### **Alumni Scholarships**

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 OSAP residency requirements.  
Donor: Brock University Alumni Association  
Established: 1985

### **Birks Family Foundation Scholarship**

Value: \$780\*. Awarded to outstanding students at the discretion of Senate.  
Donor: Birks Family Foundation  
Established: 1968  
Endowed: 1968

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

Value: \$500. Awarded to a full-time 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**

Value: \$4000\*. 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 OSAP residency requirements.  
Donors: Friends and colleagues of Dr. Alan Earp  
Established: 1966  
Endowed: 1996

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

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.  
Donors: Mr. David Edwards and Ms. Susan Hughes  
Established: 1996  
Endowed: 1996

### **Sophia Gampel Memorial Scholarships**

Value: \$720\*. Divided between two students from the city of Niagara Falls, Ontario.  
Donor: Mr. Abraham Gampel  
Established: 1970  
Endowed: 1970

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

Value: \$1500\* each. To be awarded, by application, to each of two returning students who are varsity athletes and have a minimum average of 80%. Renewable upon maintaining an academic average of 80%. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: David S. Howes  
Established: 1996  
Endowed: 1996

### **Lasting Impression Part-Time Scholarship**

Value: three scholarships of \$500\*. For part-time students (who have completed the first milestone of five credits and are taking fewer than three credits in the Fall/Winter Session).  
Donors: Brock University Faculty and Staff 1993  
Established: 1993  
Endowed: 1996

### **Meloche-Monnex Scholarship**

Value: \$1450\*. Awarded, by application, to a student who must demonstrate financial need and meet OSAP residency requirements.  
Donor: Meloche-Monnex Inc.  
Established: 1997  
Endowed: 1997

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

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 OSAP residency requirements. Please indicate your interest in the hospitality industry within the comments section of your application.  
Donor: Si Wai Lai  
Established: 1997  
Endowed: 1997

### **Peter and Janet Partridge Scholarship**

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 OSAP residency requirements.  
Donor: Peter and Janet Partridge  
Established: 1997  
Endowed: 1997

### **Dorothy and Jack Roberts Cerebral Palsy Scholarship**

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.

Donors: Niagara Peninsula Cerebral Palsy Association  
Established: 1994

#### **Rose, Horne & Stevenson Group Scholarship**

Value: \$100\*. Awarded to two students with a record of academic excellence.

Donor: Rose, Horne & Stevenson Insurance Agency Ltd.  
Established: 1970

#### **Terry and Sue White Athletics Scholarship**

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% average in their previous year, demonstrate financial need and meet OSAP residency requirements.

Donor: Friends of Terry and Sue White  
Established: 1997  
Endowed: 1997

#### **Wood Gundy Scholarship**

Value: \$450\*. Awarded to a student with a record of academic excellence.

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

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### **Bursaries**

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Bursary funds are never adequate to provide full support or even a major part of support for students. Rather, bursaries are intended to assist students whose personal resources (including eligibility for loans) are normally adequate or nearly so, but whose immediate circumstances have created a financial crisis or limited shortage. All students who are eligible to do so, are expected to have applied for assistance under the Ontario Student Assistance Program

(OSAP) and to have accepted all loans granted under that program. Acceptance of a bursary implies the commitment of the recipient to complete the current academic year. A student who withdraws from the University will have their bursary pro-rated.

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

Bursaries are granted for the current academic year and applications may be submitted at anytime during the term. To be considered for some donor bursaries, applications must be submitted by October 15 except where otherwise noted. Bursary applications are available on our website <http://www.brocku.ca/registrar> and follow the links to "Financial Information".

#### **Entering Students**

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

Value: \$500\*. 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**

Value: \$750. Awarded to entering undergraduate students who have qualified for OSAP 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%.

Established: 1996

##### **Enbridge Aboriginal Bursary**

Value: \$2630\*. Awarded annually to an Aboriginal student entering first year studies. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Enbridge Consumers Gas, Toronto.

##### **Brock University Study Abroad Program**

Value: varies. Awarded to students participating in Study Abroad programs on the basis of financial need. Students must be residents of Ontario as deemed by the Ontario Student Assistance Program and have satisfactory academic standing. Applicants must demonstrate financial need. Brock must demonstrate financial need.

##### **Brock University Student-Athletics Bursary**

Value: up to \$2000, depending on need. Awarded to students participating in a Brock University Athletic program. Students must demonstrate financial need and meet OSAP residency requirements.

#### **Returning Students**

##### **John W. Bean and Kathryn Bean Becker Bursaries**

Value: Varies. Awarded to students in financial need who have completed one year of study. Bursary applications should be accompanied by a letter of reference from a faculty member showing the student's diligence and industriousness. Applicants must demonstrate financial need.

Donor: Estate of John W. Bean and Kathryn Bean Becker  
Established: 1993  
Endowed: 1993

##### **Muriel and Arnold Bennett Student Bursary**

Value: Varies. Awarded to registered students on the basis of financial need and satisfactory academic standing. Students must meet OSAP residency requirements.

Donor: Estate of Muriel and Arnold Bennett  
Established: 1999

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

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

**SCHOLARSHIPS, BURSARIES, AWARDS  
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**Branscombe Family Foundation  
Bursaries**

Value: \$1000\*. To provide five annual awards to Canadian students of Black ancestry. Applicants must demonstrate financial need, satisfactory academic performance and meet OSAP 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 University General  
Bursary Assistance**

Value: Varies. Students may apply for emergency bursary assistance based solely on financial need. You are required to:

- a) Complete a web bursary application form;
- b) Be currently registered for courses at Brock University;
- c) Be in satisfactory academic standing (i.e., not on probation).

Applications for Fall accepted beginning August 1 of each year.

**Brock University Co-op Bursary**

Value: up to \$2000, depending on need. Students may apply for this bursary if they are participating in a placement coordinated by the Co-op Programs Office. Students must demonstrate financial need and meet OSAP 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**

Value: varies. Students may apply for this bursary if they are planning to study abroad via student exchange programs administered by the Office of International Services. Students must be residents of Ontario as deemed by the Ontario Student Assistance Program and have satisfactory academic standing. Applicants must demonstrate financial need.

**Brock University Club Bursary**

Value: \$300\*. Awarded to a student in

financial need.

Donor: The University Club  
Established: 1993  
Endowed: 1993

**Brock University Student Union  
Bursary**

Value: \$500\*. To be awarded to a student in financial need. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Brock University Student Union  
Established: 1997  
Endowed: 1997

**Campus Recreation Bursary**

Value: \$500\*. 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 OSAP residency requirements.

Donor: Campus Recreation Students and Staff of 1995-1997  
Established: 1997  
Endowed: 1997

**Critelli Family Bursary**

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 OSAP residency requirements.

Donor: Mr. Tom and Mrs. Zan Critelli  
Established: 2001

**CUPE Local 1295 Bursary**

Value: \$1000. Awarded to a son or daughter of a member of CUPE Local 1295 who demonstrates financial need. Deadline date February 1.

**John Deere Foundation of Canada  
Bursary**

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

Donor: John Deere Foundation  
Established: 1997  
Endowed: 1997

**William J. Edgar Bursary**

Value: \$1500\*. Awarded to needy students from the former county of Welland. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Jenny Bell Edgar Estate

Established: 1966  
Endowed: 1966

**Jim Gayman Bursary**

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**

Value: \$500\*. Awarded to a deserving student. Applicants must demonstrate financial need, be in good academic standing and meet OSAP 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  
Fund**

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

**T. J. Kearney Bursary**

Value: \$225\*. 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**

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

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**Rotary Ted Lancaster Bursary**

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

Donor: St. Catharines Rotary Club

Established: 1976

Endowed: 1997

**Manulife Financial Bursary**

Value: \$1000\*. Awarded, by application, to an upper year student. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Manulife Financial

Established: 1997

Endowed: 1997

**Award for Métis Students**

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 OSAP residency requirements.

Donor: Métis Nation of Ontario

Established: 1997

Endowed: 1999

**Stan Mikita Bursary**

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**

Value: \$1500\*. Awarded by application, to a varsity rugby player in second or subsequent year with satisfactory academic progress (Minimum academic average of 70% 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 OSAP residency requirements.

Donor: Old Badgers Alumni Rugby Club

Established: 1996

Endowed: 1996

**Stella and Ann Robinson Memorial Award**

Value: \$600\*. To be awarded annually, by application. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Mr. Nicholas Robinson

Established: 1997

Endowed: 1997

**Auguste E. Schmid Bursary**

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 OSAP residency requirements.

Donor: Family of Auguste E. Schmid

Established: 1997

Endowed: 1997

**Student Services Bursary**

Value: \$500\*. Awarded to a part-time student from the Niagara Region. Applicants must demonstrate financial need, be in good academic standing and meet OSAP residency requirements.

Donor: Faculty and Staff, Student Services

Established: 1996

Endowed: 1996

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

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

**Women's Basketball Alumni Bursary**

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**

**Alumni Association Student Award**

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

**Badger Award for Leadership in Extracurricular Activities**

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. Donors: The family and friends of Victoria Catherine Hull.

Established: 1980

**The Campus Recreation Jubilee Award**

Value: \$125. Divided between two deserving participants (1 male and 1 female) in the campus recreation program.

Donors: 1989-90 Campus Recreation Staff

Established: 1990

Endowed: 1990

**CUPE Local 2220 Awards**

Two awards: \$500 to a full-time student, \$300 to a part-time student or to be shared equally by up to three part-time students. Recipients must be members of CUPE Local 2220 or relatives of CUPE Local 2220 members. Applications are accepted on our web site <http://www.brocku.ca/registrar> and follow the links to "Financial Information". Deadline February 1.

**Front Row Sports Award**

Value: \$1000. To be awarded annually, by application. Applicants must have

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

history of participation in hockey in the Region of Niagara and must have attained a minimum average of 70%.

Donor: Front Row Sports  
Established: 2001

### Halia Jordan Memorial Book Prize

Value: \$150\*. Awarded each October to a deserving international student.

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

Established: 1986  
Endowed: 1986

### Bev McCollom Memorial Award

Value: \$1500\*. Awarded to a member of the Brock University interuniversity hockey team who has attained a minimum 70% 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 University Scholarships Office. Applicants must demonstrate financial need and meet OSAP 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%. 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 OSAP requirements to be eligible.

Established: 1997  
Endowed: 1997

### Pepsi Canada Student Award

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%. 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.

Donors: Residents of Sheaffe Hall, 1985-86

### Silver Badger Alumni Award

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.

Donors: The family and friends of Barrie-Ann Bergsma  
Established: 1987

### Steel Blade Award

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% in their previous year at Brock.

Donor: Brock University Hockey Alumni

Established: 2001

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## Faculty of Applied Health Sciences

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### Any Department

#### Entering Student Scholarship

#### 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

Value: \$1350\* each. Six scholarships: one awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. Candidates are nominated by the appropriate Dean to the Senate Committee on Awards and Bursaries. (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: \$2100\* 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: \$310\*. Awarded to an outstanding student in the Faculty of Applied Health Sciences.  
Donor: The Rotary Club of St. Catharines South  
Established: 1973  
Endowed: 1973

## Community Health Sciences

#### Entering Student Scholarship

#### Bluma Appel Scholarship in Community Health Sciences

Value: \$2000\*. Awarded to the student with the highest academic standing, entering the first-year of the Community Health Sciences program.  
Donor: Mr. Bram Appel  
Established: 1991  
Endowed: 1991

#### Bursaries

#### MDS Inc. Bursary

Value: \$500\*. To be awarded annually by application to a student enrolled in

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

the Community Health Sciences program. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: MDS Inc.  
Established: 1997  
Endowed: 1997

### Other Awards

#### Julie Bouffard Community Health Sciences Award

Value: \$250\*. 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% average in their major at graduation. The department of Community Health Sciences will determine the recipient.  
Established: 2000

#### Distinguished Graduating Student Award - Community Health Sciences

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998.

### Physical Education and Kinesiology

#### Returning Student Scholarship

#### Aileen Hood Memorial Scholarship

Value: \$300\*. Awarded to a student of superior ability entering the fourth-year of the Physical Education program.  
Donor: Aileen Hood Estate  
Established: 1982  
Endowed: 1982

### Bursaries

#### Ken and Nancy Murray Bursary

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% 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 OSAP residency requirements.

### Other Awards

#### Department of Physical Education Book Prize

Awarded annually to the fourth-year student with the highest graduating average in Physical Education.

#### Distinguished Graduating Student Award - Physical Education

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

#### Jason Pearson Memorial Award

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%.

Donor: Mr. Larry Pearson  
Established: 2001

### Recreation and Leisure Studies

#### Recreation and Leisure Studies Student Bursary

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

### Other Awards

#### Distinguished Graduating Student Award - Recreation and Leisure Studies

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and

a certificate will be awarded at the Convocation Luncheon.

Established: 1998

### Sport Management

#### Other Awards

#### Distinguished Graduating Student Award - Sport Management

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

#### Sport Management Club Student Achievement Award

Value: \$300. Awarded to two returning students with leadership qualities who have a minimum average of 70% and have made a demonstrated contribution to the Sports Management Club and its programs at Brock University, as well as the sport industry. The Executive Council of the Sports Management Club and its Academic Advisor will determine selection.  
Established 2000

#### E. Werner Awards

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 OSAP residency requirements.  
Donor: Edward M. Werner  
Established: 1999  
Endowed: 1999

SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

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Faculty of Business

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Any Department

Entering Student Scholarships

**Burgoyne Family Scholarships**

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%. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Burgoyne Holdings Limited  
Established: 1997  
Endowed: 1997

**Donohue Scholarships in  
Business and Science**

Value: \$1250\* each. Awarded to an entering student from each of the following: i) a Business program; ii) a Business program with a concentration in Entrepreneurship; and iii) a Science program. The award is renewable contingent upon maintaining a minimum 75% average in the program of study. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Niagara/Baie Comeau  
Community Foundation  
Established: 1997  
Endowed: 1997

**Kenneth A. Fowler Scholarship**

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% in full-time studies. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Kenneth A. Fowler  
Established: 1997  
Endowed: 1997

**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**

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

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

**William and Lorraine McNally  
Scholarship**

Value: \$2500\*. 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 OSAP residency requirements.

Donor: William and Lorraine McNally  
Established: 1997  
Endowed: 1997

**Adam Neill Memorial Scholarship**

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 OSAP residency requirements.

Donor: Robert and Patricia Neill  
Established: 1997  
Endowed: 1997

Returning Student Scholarships

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

Value: \$1350\* each. Six scholarships: one awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. Candidates are nominated by the appropriate Dean to the Senate Committee on Awards and Bursaries. (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**

Value: \$2500. 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% average. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Niagara Duty-Free Shops Inc.  
Established: 1997  
Endowed: 1997

**Partridge Iggulden Scholarship**

Value: \$1250\*. 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 enrol in the third-year Accounting option.

Donor: Partridge Iggulden Chartered  
Accountants  
Established: 1971

**RBC Dominion Securities  
Scholarship**

Value: \$1500\*. Awarded to a student enrolled in a program in the Faculty of Business. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donors: RBC Dominion Securities  
Established: 1997  
Endowed: 1997

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Scotiabank Scholarship

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% or above). Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Scotiabank  
Established: 1997  
Endowed: 1997

### 25th Anniversary Scholarships

Value: \$2100\* 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 Faculty 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 OSAP residency requirements. Donor: Friends of Terry and Sue White  
Established: 1997  
Endowed: 1997

### Bursaries

#### Bosch Rexroth Canada Bursary

Value: \$750\*. Presented annually as an entrance award. Applicants must demonstrate financial need and display academic excellence (75%+). Preference will be given first to qualified applicants who are children of Basic Technologies 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 Basic Technologies employee within the comments section of your application. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Basic Technologies  
Established: 1998  
Endowed: 1997

#### CIBC Bursary

Value: \$1000\*. To be awarded by application to a student enrolled in the Faculty of Business. Applicants must demonstrate financial need and meet OSAP requirements.

Donor: CIBC  
Established: 1997  
Endowed: 1997

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

Value: \$800\*. Awarded to a student entering into a degree in Business. Applicants must demonstrate financial need, be in good academic standing and meet OSAP residency requirements. Applicants must also confirm they are non-smokers.

Donor: Mrs. Susan M. Napper  
Established: 1997  
Endowed: 1997

#### Lester Shoalts Bursary

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 OSAP residency requirements.

Donor: Lester Shoalts Ltd.  
Established: 1997  
Endowed: 1997

### Other Awards

#### Edward J. Freeland Award

Value: \$4000. Awarded to each of two students of proven financial need, who are entering the Faculty of Business or business related disciplines, and whose admission average is 75% 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 Collège, 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.

Donor: Dr. Maurice F. Perkins  
Established: 1977

### Accounting and Finance

#### Entering Student Scholarships

#### Crawford, Smith and Swallow Scholarship

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 OSAP residency requirements.

Donor: Crawford, Smith and Swallow Chartered Accountants  
Established: 1997  
Endowed: 1997

#### Deloitte and Touche Bill Smiley Award

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 OSAP residency requirements.

Donor: Deloitte and Touche LLP  
Established: 1997  
Endowed: 1999

#### KPMG Entrance Scholarship

Value: \$1500\*. 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: \$950\*. 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Returning Student Scholarships

#### W. Frank Cooper and Trevor C. Cooper Scholarship

Value: \$1220\*. Awarded by application to a student in the Accounting and Finance Program, Faculty of Business. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: W. Frank Cooper and Trevor C. Cooper

Established: 1997

Endowed: 1997

#### Durward, Jones, Barkwell and Company Scholarship

Value: \$1500\*. Awarded annually by application to a third- or fourth-year student who has declared their major in Accounting and is a resident of the Niagara Region. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Durward Jones Barkwell and Company

Established: 1997

Endowed: 1997

#### Ernst & Young Scholarship in Accounting

Value: \$1340\*. Awarded annually to a student in the Accounting Program. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Ernst & Young, Chartered Accountants

Established: 1998

Endowed: 1998

#### KPMG In-Course Scholarship

Value: \$1500\*. 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: 1990

#### Tinkham Scholarship

Value: \$750\*. Awarded to a fourth-year co-op accounting student, prior to the fourth work term, who is a graduate of a high school in the greater Toronto area. The candidate must have completed three work terms, have demonstrated leadership skills, and be an active participant in the University

community. Recommendations are made by the Department of Accounting and Finance to the Senate Committee on Awards and Bursaries.

Donor: Tinkham and Associates Chartered Accountants

Established: 1993

### Other Awards

#### Distinguished Graduating Student Award - Accounting and Finance

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

Established: 1998.

#### John Edds Prize in Accounting

Value: \$250. Awarded to the graduating student in the Faculty of Business, with the highest average in accounting courses prescribed for Accounting majors.

Donor: Mr. J. A. Edds

Established: 1986.

#### George Rasula Memorial Award

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 OSAP residency requirements.

Donor: The Rasula Family

Established: 1998

Endowed: 1998

#### Edith Toth Memorial Award

Value: \$300\*. 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

### Management, Marketing and Human Resources

#### Entering Student Scholarships

##### Allen Goar Scholarship

Value \$1250\*. Awarded annually to a student entering the first year of the business school who has declared an

interest in pursuing the entrepreneur program. The minimum average required for the scholarship is 75%. Applicants must demonstrate financial need and meet OSAP 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

Value: \$1550\*. 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: \$1920\*.** 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: Mr. A. Thomas Leon

Established: 1994

Endowed: 1994

#### The Niagara Industry Training Advisory Council (NITAC) and the Business Education Council (BEC) Scholarship in Business

Value: \$2440\*. 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.

Donor: The Business Education Council

Established: 1996

Endowed: 1996



## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### **Dr. D. G. (Bud) Willmot Scholarship in Business**

Value: \$2900\*. 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**

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 OSAP 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 OPER 2P91 (MGMT 3P30).

Donor: Purchasing Management Association of Canada  
Established: 1973

#### **St. Catharines Advertising and Sales Association Scholarship**

Value: \$300. Awarded to an outstanding student entering the fourth-year of the marketing concentration of the honours Bachelor of Business Administration program, who is a permanent resident of St. Catharines.

Donor: St. Catharines Advertising and Sales Association  
Established: 1989

#### **Tomarin Scholarship in Marketing**

Value: \$1500\*. Awarded to the student with the highest academic standing, entering the fourth-year marketing concentration in the Bachelor of Business Administration program.

Donor: Harry Tomarin, Seymour Tomarin  
Established: 1989  
Endowed: 1989

#### **Willmot Scholarship in Administration**

Value: \$500\*. Awarded to an outstanding student majoring in Business Administration.

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

### **Bursaries**

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

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 and have satisfactory academic standing.

Donor: Mr. Jan Cook  
Established: 1996  
Endowed: 1996

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

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 OSAP residency requirements.

Donor: Court Holdings Limited  
Established: 1997  
Endowed: 1997

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

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 OSAP residency requirements.

Donor: St. Catharines Jaycees  
Established: 1989  
Endowed: 1989

### **Other Awards**

#### **Distinguished Graduating Student Award - Management, Marketing and Human Resources**

Value: \$100. Awarded to the most distinguished graduate for each

department and program. The prize and certificate will be awarded at the Convocation Luncheon.

Established: 1998

#### **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**

A Bookstore voucher for \$200 awarded for the best overall combination of academic and entrepreneurial performance.

Donor: Dr. Sonja Bata  
Established: 1994

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## **Faculty of Education**

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### **Any Department**

#### **Entering Student Scholarships**

##### **Eleanor Shaw Award**

Value: \$500. Awarded to a female student in her second term (completed the fall semester) in the pre-Service Education Program 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.

##### **Group 2 Development Scholarship**

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% average in the program. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Group 2 Development Limited  
Established: 1997  
Endowed: 1997

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Returning Student Scholarships

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

Value: \$1350\* each. Awarded to a student in the Faculty of Education entering the fourth (honours) year, who has demonstrated diligence and industriousness. Candidates are nominated by the appropriate Dean to the Senate Committee on Awards and Bursaries. (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

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 demonstrate financial need and meet OSAP residency requirements.

Donor: Mrs. Margarete Pummell

Established: 1997

Endowed: 1997

### Bursaries

#### Nadine and Frank Coy Bursary

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% in their previous year as a student-athlete. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Nadine and Frank Coy

Established: 1997

Endowed: 1997

#### Helen J. Stewart Education Bursary

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 Awards and Bursaries, based on the recommendation of the Bursary Officer. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Friends, Family and Colleagues of Helen J. Stewart

Established: 1996

Endowed: 1996

#### Mrs. Donna Nash Education Bursary

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: 2001

#### Faculty of Education Bursary

Value: \$1250\*. To be awarded to Faculty of Education students. Applicants must demonstrate financial need, be in good academic standing and meet OSAP residency requirements.

Donor: Faculty and Staff of the Faculty of Education

Established: 1997

Endowed: 1997

#### Diane Helmkay Memorial Bursary

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

#### 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 for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon. Nominees for this award are forwarded to the Faculty of Education Awards Committee by the group counsellors in late April.

Established: 1998.

#### Russell N. Eden Art Award

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

**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 a group of counsellors in late April.

Donor: Ontario Secondary School Teachers Federation

**Eleanor Shaw Award**

Value: \$500. Awarded to a female student in her second term (completed the Fall Term) in the Pre-service Education Program 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.

Established: 1997

Endowed: 1997

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**Faculty of Humanities**

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**Any Department**

**Entrance Scholarships**

**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

**William and Lorraine McNally Scholarship**

Value: \$2500\*. 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 OSAP residency requirements.

Donor: William and Lorraine McNally

Established: 1997

Endowed: 1997

**Returning Student Scholarships**

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

Value: \$1350\* each. Six scholarships: one awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. Candidates are nominated by the appropriate Dean to the Senate Committee on Awards and Bursaries. (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**

Value: \$2100\* 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 Faculty 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 OSAP residency requirements.

Donor: Friends of Terry and Sue White

Established: 1997

Endowed: 1997

**Bursaries**

**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 OSAP residency requirements.

Donor: Campbell and Company Insurance Consultants Ltd.

Established: 1997

Endowed: 1997

**Gail Jenkyns Memorial Bursary**

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

Endowed: 1987

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Applied Language Studies

#### Other Awards

**Distinguished Graduating Student Award - Applied Language Studies**  
Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be forwarded at the Convocation Luncheon.  
Established: 1998.

**Department of Applied Language Studies Book Prizes**  
Value: \$50. Awarded to second-, third- or fourth-year majors in recognition of academic standing.

#### Canadian Studies

**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 Convocation Luncheon.  
Established: 1998

**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, declared major in any year.  
Donor: Family and Friends of James Nicks

#### Classics

##### Returning Student Scholarship

**Newton Memorial Award**  
Value: \$400. Awarded biannually to a Brock student majoring in Classics who has enrolled in CLAS 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 OSAP residency requirements.  
Donor: Classics Department  
Established: 1997

#### Other Awards

**Brock Archaeological Practicum Award**  
Awarded triennially to a student 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**  
Awarded to a graduating student for high standing in Classics.  
Established: 1972

**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 Prize in Art and Archeology**  
Awarded to a graduating student for high standing in Ancient Art and Archeology.  
Established: 1972.

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

**Bruce Lidsten Memorial Book Prize**  
Two prizes: awarded during the Fall/Winter Session to students with the

highest averages in each of CLAS 1P91/1P92 and CLAS 1P95/1P97.  
Established: 1995  
Endowed: 1995

**Niagara Peninsula Society (Archaeological Institute of America) Prize in Classical Archaeology and History**  
Value: \$50. Awarded annually by the Department of Classics. The first prize will be awarded to the student with the highest average in both CLAS 2P91 and CLAS 2P92 (Greek History) or CLAS 2P98 and CLAS 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 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.  
Established: 2000

### 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 Bremner  
Established: 1994

**Linda and Tom Goldspink Scholarship in English Language and Literature**  
Value: \$1300\*. Awarded to a student majoring in English Language and Literature. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Linda and Tom Goldspink and Ernst and Young, Chartered Accountants  
Established: 1998  
Endowed: 1998

SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

**Margaret Megannety Scholarship in English**

Value: \$1250\*. To be awarded to a third- or fourth-year English Language and Literature student. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Mrs. Margaret Megannety  
Established: 1997  
Endowed: 1997

**Bursaries**

**Harry Karowec Memorial Bursary**  
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**

Value: \$500\*. Awarded by application to a student in Music or English who shows academic promise (70% or higher), as well as financial need. Single and joint majors are eligible. Applicants must demonstrate financial need and meet OSAP 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

**Distinguished Graduating Student Award - English Language and Literature**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and certificate will be awarded at the Convocation Luncheon.  
Established: 1998

**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: 1981-1982

**Harpweaver Prize for Visual Art**

Value: \$50. Awarded to the artist of the best work of visual art published in The Harpweaver magazine.  
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

**The Carole LaMothe Memorial English Essay Prize**

Value: \$175. Awarded for the best essay submitted as part of the required workload in any English or Drama/English course during the academic year. Any entry must be submitted to the competition by the student.  
Donors: Department of English and friends of Carole LaMothe  
Established: 1981-1982

**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

**Fine Arts**

**Returning Student Scholarship**

**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: Dr. James A. Gibson  
Established: 1988  
Endowed: 1988

**Bursaries**

**Warren Hartman Bursary**

Value: \$200\*. Awarded annually, by application. To be divided equally between each of three outstanding students majoring in Theatre/Dramatic Literature, 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 OSAP residency requirements.  
Donor: Faculty and Staff, Fine Arts Department  
Established: 1997  
Endowed: 1997

**Elizabeth Miller Bursary**

Value: \$450\*. Awarded annually, by application to a first-year student who is enrolled in Dramatic and Visual Arts. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Dr. Mary Jane Miller and Dr. Jack Miller  
Established: 1997  
Endowed: 1997

**Other Awards**

**Amadeus Book Prize**

An award in commemoration of the

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

200th anniversary of Mozart's death. Alternating between the Theatre 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

**Distinguished Graduating Student Award - Fine Arts/ Dramatic Literature/Theatre/Visual Arts**  
Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

**The F. Janet Dolman Prize in Playwriting**  
Awarded to a student or students who show outstanding promise in playwriting.  
Established: 1989

**The Jane Forrest Prize in Dramatic and Theatre Arts**  
Awarded to the student who excels in second-year Theatre courses.  
Established: 1979  
Donor: Dr. Mary Jane Miller

**The J. H. and J.F. Harding Prize in Dramatic Literature and Theatre**  
Awarded for excellence over three or four years in dramatic literature courses.  
Established: 1977  
Donor: Dr. Mary Jane Miller

**Jean Harding Prize for Festival Achievement**  
A book prize awarded to the student judged to have made the most outstanding contribution to the Spring Festival of the Department of Fine Arts.  
Donor: Dr. Mary Jane Miller

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

**Arthur Houston Prize in Life Drawing**  
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 Theatre/Dramatic Literature/Drama-in-Education or Visual arts, who has displayed strength in academics and participation in the university community.  
Established: 1992

**The A. Miller and N. Mabee Prize**  
Awarded to the student who achieves the highest standing in fourth-year (honours) Dramatic Literature or Theatre program or a combined DRAM/THEA honours degree.  
Established: 1989

**The M.E. and L.E. Miller Prize in Drama and Theatre Arts**  
Awarded to the student who achieves the highest standing in DRAM 1F93 and THEA 1F99.  
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 DIEE 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% must be maintained.  
Donor: Friends of Norah Morgan  
Established: 1996

**The Sylvia Osterbind Prize in Art History**  
Awarded to the student with the highest standing in Art History.  
Established: 1989

**Dr. Marion B. Smith Prize in Fine Arts**  
For excellence over three or four years in Fine Arts courses.  
Established: 1976

**Theatre Students and Alumni Book Prize for Theatre**  
Awarded to a second- or third-year student in the Theatre and Dramatic Literature Program who has maintained at least a B average and who has made a distinctive contribution to the program or programs.  
Donors: Brock Theatre graduates  
Established: 1995  
Endowed: 1996

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

### Great Books/Liberal Studies

**Entering Student Scholarship**  
Paul Branscombe Memorial Scholarship  
Value: \$1200\*. 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% average in the program. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Group 2 Development Limited  
Established: 1997  
Endowed: 1997

### Bursaries

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

**Distinguished Graduating Student Award - Great Books/Liberal Studies**  
Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

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

### History

#### Entering Student Scholarship

**The Betty and Gordon Vallee Scholarship**  
Value: \$5000\*. 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 Biological Sciences who have graduated from a Niagara Region secondary school. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Betty and Gordon Vallee  
Established: 1994  
Endowed: 1994

#### Returning Student Scholarships

**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: \$180\*. 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**  
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. Applications are reviewed by the Chair and faculty of the History department and a nomination is forwarded to the Senate Subcommittee on Bursaries for approval. Applications are available from the Bursary Officer. Applicants must demonstrate financial need. Deadline date February 1.  
Donor: Family and friends of Effie Buck  
Established: 1994  
Endowed: 1994

### Other Awards

**The Donald G. Creighton Prize in History**  
Value: \$125. Awarded to the student obtaining the highest mark in a first-year HIST 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.

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

**The Donald Goodspeed Book Prize**  
Value: \$125. Awarded to the student achieving the highest academic standing in HIST 1F95.

**John M. McEwen Book Prize in British History**  
Value: \$100. Awarded to the student who excels in British history at the second-, third- or fourth-year level.  
Donor: Prof. John M. McEwen  
Established: 1991

**Turner Book Prize in Canadian History**  
Value: \$100. 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: Mr. 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

### 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

**Club Heidelberg Scholarship**  
Value: \$200. Awarded to the top student entering second-, third- or fourth-year in the Department of Germanic and Slavic Studies, who is pursuing studies in German language and literature or in German area studies. Preference will be given to single majors.  
Donor: The St. Catharines Club Heidelberg  
Established: 1965

### Other Awards

#### French, Italian and Spanish

**Book Prize of the Consulate General of Mexico**  
Awarded to a student(s) who have shown excellence and promise in Spanish.  
Donor: Consul-General of Mexico  
Established: 1999

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### **Book Prize of the Embassy of Spain (Graduating)**

Awarded to an outstanding student graduating in Spanish.  
Established: 1999

### **Book Prize of the Spanish Embassy/ Spanish (In-Course)**

Awarded to a student of exceptional merit in Spanish.  
Established: 1999

### **Book Prize of the French Consul-General, Toronto**

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

### **Department of 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

### **Distinguished Graduating Student Award - French, Italian and Spanish**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

### **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

### **Niagara Italian Community Prize**

Approximately \$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

### **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

### **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

## **Germanic and Slavic Studies**

### **Department of Germanic and Slavic Studies Book Prize in Russian 1F00**

Awarded to an outstanding student in Russian 1F00.

### **Department of Germanic and Slavic Studies Book Prize in German 1F90**

Awarded to an outstanding student in German 1F90.

### **Department of Germanic and Slavic Studies Book Prize in German 1P95**

Awarded to an outstanding student in German 1P95.

### **Department of Germanic and Slavic Studies Book Prize in Russian 1P96**

Awarded to an outstanding student.

### **Department of Germanic and Slavic Studies Book Prize in Russian 2F10**

Awarded to an outstanding student.

### **Distinguished Graduating Student Award - Germanic and Slavic Studies**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

### **German Embassy Book Prize**

Awarded to the top student in each course offered by the German division of the Department of Germanic and Slavic Studies.  
Donor: German Embassy  
Established: 1967

### **The Joyce Lucey Prize**

Awarded to an outstanding student majoring in German or Russian in the Department of Germanic and Slavic Studies.  
Donor: Friends of the late Mrs. Joyce Lucey  
Established: 1989

### **Prize of the Ambassador of Switzerland to Canada**

A book prize awarded to students who obtained the highest standing in German.  
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

## **Music**

### **Returning Student Scholarships**

#### **Senior Scholarship in Music I**

Value: \$410\*. Awarded to the student, with the highest average in Music courses, entering the third-year of a degree program in Music.  
Donor: Dr. and Mrs. J. A. Gibson  
Established: 1975  
Endowed: 1981

#### **Senior Scholarship in Music II**

Value: \$410\*. Awarded to a student of distinguished musical achievement, entering the final year of a degree program in Music.  
Donor: 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.  
Established: 1990  
Endowed: 1990



## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Bursaries

#### Neil Jones Award in Music

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 OSAP residency requirement.

Donor: Mr. and Mrs. Neil Jones and Jeanne Jones

Established: 1996

Endowed: 1996

#### Eunice Leahey Memorial Bursary in Music (Voice)

Value: \$500\*. Award annually to a student enrolled in the Bachelor of Music Program who is entering 4th year (4F92) in applied music (voice). The student will have received a minimum mark of 85% in 3rd year applied music and have demonstrated exceptional performance ability in singing. In the event that no candidates meet these criteria, then it is to be awarded to a piano or instrumental student entering 4th year applied music. Applicants must demonstrate financial need.

#### Mary Pat Richardson Bursary

Value: \$500\*. Awarded by application to a student in Music or English who shows academic promise (70% or higher), as well as financial need. Single and joint majors are eligible. Applicants must demonstrate financial need and meet OSAP 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 Theatre 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

#### Distinguished Graduating Student Award - Music

Value: \$100. Awarded to the most

distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.

Established: 1998

#### A. Whitmore Griffin Award in Music

Value: \$2400\*. Awarded to a third- or fourth-year student with a declared major in Music. The award will be made in recognition of academic excellence, outstanding achievement and potential as a music educator. Preference will be given to a student who has been accepted in the Faculty of Education at Brock University. Applicants must demonstrate financial need and meet OSAP 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

#### Ronald Tremain Prize in Music Composition

Value: \$50. Awarded to a Music major who shows outstanding achievement and potential as a composer.

### Philosophy

#### Returning Student Scholarships

##### Professor Zygmunt Adamczewski Scholarship

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 OSAP residency requirements.

Donor: Brock Philosophical Society

Established: 1997

Endowed: 1997

#### Frederick William Ford Scholarship

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 OSAP residency requirements.

Donor: Brock Philosophical Society

Established: 1997

Endowed: 1997

#### Father John Nota Scholarship

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 OSAP residency requirements.

Donor: Brock Philosophical Society

Established: 1997

Endowed: 1997

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

Value: \$1250\*. Awarded annually by application to a student majoring in Philosophy who has completed two 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 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 OSAP residency requirements.

Donor: The Family of George Woodward

Established: 1997

Endowed: 1997

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Bursaries

**Edward and Sharon Arnold Bursary**  
Value: \$500\*. To be awarded annually to a student with a declared major in Philosophy. Applicants must demonstrate financial need and meet OSAP 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.  
Donors: Relatives and friends of the late Mrs. Rheta Affleck  
Established: 1972

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

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## Faculty of Mathematics and Science

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### Any Department

#### Entering Student Scholarships

**Donohue Scholarships in Business and Science**  
Value: \$1250\* each. Awarded to an entering student in each of the following: i) a Business program; ii) a Business program with a concentration in Entrepreneurship; and iii) a Science program. The award is renewable contingent upon maintaining a minimum 75% average in the program of study. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Niagara/Baie Comeau Community Foundation  
Established: 1997  
Endowed: 1997

**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

**William and Lorraine McNally Scholarship**  
Value: \$2500\*. 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 OSAP residency requirements.  
Donor: William and Lorraine McNally  
Established: 1997  
Endowed: 1997

#### Returning Student Scholarships

**The John W. Bean and Kathryn Bean Becker Scholarship**  
Value: \$1350\* each. Six scholarships: one awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. Candidates are nominated by the appropriate Dean to the Senate Committee on Awards and Bursaries. (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

**Technology Group (Machine and Electronic Shop) Scholarship**  
Value: \$1250\*. 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. The minimum average required to be considered for the scholarship is 75%. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Mr. Roland Seehagel and Mr. John Rustenburg  
Established: 1996  
Endowed: 1996

**25th Anniversary Scholarships**  
Value: \$2100\* 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 Faculty 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 OSAP residency requirements.  
Donor: Friends of Terry and Sue White  
Established: 1997  
Endowed: 1997

**Goldsmith-Wyatt Mathematics and Science Scholarship**  
Value: \$6100\*. 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. Applications are available from the Scholarships Officer: deadline date is October 15.  
Donor: Prof. E.E. Goldsmith and Mr. Alan Wyatt  
Established: 1994  
Endowed: 1994

### Bursaries

**Dr. Cora M. Briant Bursary for Women**  
Value: \$1750\*. Awarded annually by application to a female student in financial need who is continuing her

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

studies in the sciences (not mathematics). Renewable in subsequent years contingent on recipient maintaining a minimum 75% average. Applicants must demonstrate financial need and meet OSAP 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 OSAP residency requirements.

Donor: Campbell and Company Insurance Consultants Ltd.  
Established: 1997  
Endowed: 1997

### **General Motors of Canada Limited Bursary**

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 OSAP residency requirements.

Donor: General Motors of Canada Limited  
Established: 1997  
Endowed: 1997

### **Hiatt Bursary in Chemistry**

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 OSAP residency requirements.

Donor: Faculty and Staff Chemistry Department  
Established: 1997  
Endowed: 1997

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

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 OSAP residency requirements.

Donor: The Jaeger Family  
Established: 1998  
Endowed: 1998

### **Muller Bursary in Science**

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 OSAP residency requirements.

Donor: Dr. Eric Muller & Mr. Michael Muller  
Established: 1997  
Endowed: 1997

### **Ursino Family Bursary**

Value: \$1300\*. Made annually to a second or third year student who has a minimum 70% major average. Preference will be given to a student with a declared major in Biological Sciences. If no suitable applicant can be found, second preference will be given to a student in the Concurrent BSc/Bed program with a declared major in Science. Students must demonstrate financial need and meet OSAP requirements.

Donor: The Ursino Family in Memory of Joseph and Josephine Ursino  
Established: 2001  
Endowed: 2001

## **Biochemistry**

### **Other Awards**

#### **Distinguished Graduating Student Award – Biochemistry**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

## **Biological Sciences**

### **Entering Student Scholarships**

#### **3M Scholarships**

Value: \$1000\* each. Two scholarships: one awarded to the student with the highest average entering a Biology

program; one awarded to the student with the highest average entering a Chemistry program.

Donor: 3M Canada Inc.  
Established: 1992

### **The Betty and Gordon Vallee Scholarship**

Value: \$5000\*. 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 Biological Sciences who have graduated from a Niagara Region secondary school. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Betty and Gordon Vallee  
Established: 1994  
Endowed: 1994

### **Bursaries**

#### **Dr. Arthur Wiebe Bursary**

Value: \$500\*. Awarded annually to a student in the Biological Sciences program. Applicants must demonstrate financial need and meet OSAP 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.

#### **Distinguished Graduating Student Award - Biological Sciences**

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

Established: 1998

#### **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.

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

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 a 75% 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.

Donors: Department of Chemistry colleagues of Dr. Gibson

Established: 1993

Endowed: 1996

#### Other Awards

##### Distinguished Graduating Student Award - Biotechnology

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

Established: 1998

##### 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% in their final year and who have completed the program in four years.

Donor: Society of Chemical Industry

Established: 1967

### Chemistry

#### Entering Student Scholarship

##### 3M Scholarships

Value: \$1000\* each. Two scholarships: one awarded to the student with the highest average entering a Biology program; one awarded to the student

with the highest average entering a Chemistry program.

Donor: 3M Canada Inc.

Established: 1992

#### 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 to the Senate Committee on Awards and Bursaries.

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 a 75% 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.

Donors: Department of Chemistry colleagues of Dr. Gibson

Established: 1993

Endowed: 1996

##### Scholler Foundation Scholarship

Value: \$1750\*. Awarded to a student of honours standing majoring in Chemistry.

Donor: Scholler Foundation

Established: 1973

Endowed: 1973

#### Bursaries

##### Hiatt Bursary in Chemistry

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 OSAP residency requirements.

Donor: Faculty and Staff Chemistry Department

Established: 1997

Endowed: 1997

##### Mary Rixey Richardson Bursary

Value: \$500\*. Awarded by application to a student in Chemistry (single or joint major) who shows academic promise (70% or higher average). Applicants must demonstrate financial need and meet OSAP 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%. The award will be made on the recommendation of the Chair of the Department of Chemistry.

Established: 2000

##### The Canadian Society for Chemistry

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

##### Distinguished Graduating Student Award - Chemistry

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

**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.

**Blema Miller Book Prize**

Value: \$200. Awarded to a Chemistry major or combined major with the highest standing in second-year.

Donors: Professors Mary Jane Miller and Jack Martin Miller  
Established: 1992

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

Value: \$350. 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% 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**

Value: \$750\*. Awarded by application to a senior Computer Science student. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Acres International limited  
Established: 1997  
Endowed: 1997

**Silicon Knights Scholarship**

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 determined by the Senate Committee on Awards and Bursaries, based on recommendation from the Chair of the Computer Science Department.

Donor: Silicon Knights Inc.  
Established: 2000

**Bursaries**

**Information Technology Services Bursary**

Value: \$500\*. Awarded annually to a Computer Science student in their second- or third-year of study, who has a minimum 75% average. Applicants must demonstrate financial need.

Donor: Faculty, Staff and Friends of Information Technology Services  
Established: 1997  
Endowed: 1997

**Hank van Rotterdam Bursary**

Value: \$1100\*. The award will be made annually to an entering first year student with a declared major in Computer Science. Applicants must demonstrate academic success and financial need and meet OSAP 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

**Other Awards**

**Department of Computer Science Book Prizes**

Two book prizes; awarded to second- and third-year students, with the highest marks in Computer Science courses.

Established: 1981

**Distinguished Graduating Student Award - Computer Science/ Computing and Business**

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

Established: 1998

**Earth Sciences**

**Returning Student Scholarships**

**J.P. Bickell Foundation Scholarship**

Value: \$3500\* (\$1300 in second year, \$1100 in each of the third- and fourth-years). Awarded to an outstanding student majoring in Earth Sciences who has completed the first-year of the program. The student must maintain at least a 75% average in subsequent years to retain the scholarship.

Donor: The J.P. Bickell Foundation; National Trust, Trustee  
Established: 1968

**Bursaries**

**J. P. Bickell Foundation Bursary**

Value: \$1750\*. For distribution to students in great need who are in Earth Sciences.

Donor: The J. P. Bickell Foundation, Trustees, National Trust  
Established: 1969

**Professor Bruce A. Liberty Memorial Bursary**

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% or better).

Donor: Friends of the late Professor Liberty  
Established: 1982

**Ed Mirynech Bursary**

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  
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.

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

**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.

**Distinguished Graduating Student Award - Earth Sciences**  
Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and certificate will be awarded at the Convocation Luncheon.

**The Edhorn Prize in Paleontology**  
Value: \$100. Awarded to the full-time student with the highest grade in a first course in paleontology.  
Established: 1985-86

**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.

**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.

**Brian Parker Memorial Award**  
Value: \$1600\*. Awarded, on the basis of academic excellence and extracurricular involvement, to a student completing third-year of the Earth Sciences stream of the Environmental Science Program.  
Donors: 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.

**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.  
Established: 1988

### Mathematics

#### Returning Student Scholarship

**Ian D. Beddis Family Scholarship**  
Value: \$1250\*. 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%. Applicants must also demonstrate financial need and meet OSAP residency requirements.  
Donor: Ian D. Beddis & Family  
Established: 1999  
Endowed: 1997

#### Bursaries

**Leroy Langdon Richardson Bursary**  
Value: \$500\*. Awarded by application to a student entering year 2, 3 or 4 in Mathematics or Physics who shows academic promise (70% or higher average). Single and joint majors are eligible. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Dr. Mary Frances Richardson  
Established: 1996  
Endowed: 1996

#### Other Awards

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

**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

#### Other Awards

**Distinguished Graduating Student Award - Neuroscience**  
Value: \$100. Awarded to the most

distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

### Oenology and Viticulture

#### Entering Student Scholarships

**Katherine and Jacob Hildebrand Scholarship**  
Value: \$2450\*. Awarded to a student entering the Cool Climate Oenology and Viticulture Institute. Applicants must demonstrate financial need. The award is renewable provided satisfactory academic standing is maintained and financial need is demonstrated.  
Donor: Katherine and Jacob Hildebrand  
Established: 1998  
Endowed: 1998

**Roy Cairns Scholarship**  
Value: \$6000\*. Awarded annually, by application to a student who is entering first year in the Oenology and Viticulture Program. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Roy Cairns  
Established: 1997  
Endowed: 1997

**Sullivan Mahoney Scholarship**  
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 OSAP residency requirements.  
Donor: Sullivan Mahoney  
Established: 1997  
Endowed: 1997

**Domenica and Andy Panko Scholarship in Oenology and Viticulture**  
Value: \$2950\*. Awarded annually, by application to an outstanding student who is entering the Oenology and Viticulture program. Should no qualifying students apply from these programs, the award will be available to a Niagara student entering the Earth Sciences program (including single majors, co-majors, environmental science students). If no Niagara students

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

apply the geographic scope may be broadened to Ontario. Applicants must demonstrate financial need and meet OSAP residency requirements.

### **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**

Value: \$1400\*. 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% 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% 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% average in their first year of study. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Brock University Alumni Association and Friends  
Established: 1997  
Endowed: 1997

#### **Chateau Des Charmes Wines Scholarship**

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 OSAP residency requirements.

Donor: Chateau Des Charmes Wines  
Established: 1997  
Endowed: 1997

#### **Ontario Grape Growers Marketing Board 50<sup>th</sup> Anniversary Scholarship**

Value: \$1480\*. 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 OSAP residency requirements.

Donor: Ontario Grape Growers Marketing Board  
Established: 1997  
Endowed: 1997

#### **Ontario Hostelry Institute Oenology and Viticulture Year Two Scholarship**

Value: \$1500. Awarded annually to support a student entering their second 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.

Donor: Ontario Hostelry Institute  
Established: 1999

#### **Ontario Hostelry Institute Oenology and Viticulture Year Four Scholarship**

Value: \$3500. Awarded annually to support a student entering their fourth 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.

Donor: Ontario Hostelry Institute  
Established: 1999

#### **Royal Bank Scholarship**

Value: \$2500\*. 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 OSAP residency requirements.

Donor: Royal Bank of Canada  
Established: 1997  
Endowed: 1997

### **Bursaries**

#### **Margaret Woodrow Bursary**

Value: \$750\*. 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 OSAP residency requirements.

Donor: Family Savings Credit Union  
Established: 1997  
Endowed: 1997

### **Other Awards**

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

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

Established: 1997

#### **Distinguished Graduating Student Award - Oenology and Viticulture**

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

Established: 1998

### **Physics**

#### **Returning Student Scholarship**

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

Value: \$600\* each. Awarded to two 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**

Value: \$500\*. Awarded by application to a student entering year 2, 3 or 4 in Mathematics or Physics who shows academic promise (70% or higher average). Single and joint majors are eligible. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Dr. Mary Frances Richardson  
Established: 1996  
Endowed: 1996

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

**John and Laura Moore Bursary**  
Value: \$500\*. Awarded annually to an honours Physics student entering third or fourth year. Student must be a resident of Ontario as deemed by the Ontario Student Assistance Program and have satisfactory academic standing.  
Donor: John and Laura Moore  
Established: 2001

### Other Awards

**Canvision Optical Award - Physics**  
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%. The award will be made on the recommendation of the Chair of the Department of Physics.  
Established: 2000

**Distinguished Graduating Student Award - Physics/Computing and Solid-State Device Technology**  
Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

### Physics Book Prize

Awarded to one or more students.

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## Faculty of Social Sciences

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### Any Department

#### Entering Student Scholarships

##### **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

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

Value: \$2500\*. 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 OSAP residency requirements.

Donor: William and Lorraine McNally  
Established: 1997  
Endowed: 1997

#### Returning Student Scholarships

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

Value: \$1350\* each. Six scholarships: one awarded to a student in each of the faculties entering the fourth (honours) year, who has demonstrated diligence and industriousness. Candidates are nominated by the appropriate Dean to the Senate Committee on Awards and Bursaries. (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**

Value: \$3450\*. 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.

Donors: Niagara Regional Development Council  
Established: 1974  
Endowed: 1974

##### **25<sup>th</sup> Anniversary Scholarship in Social Science**

Value: \$2100\*. 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 Faculty 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 OSAP residency requirements.

Donor: Friends of Terry and Sue White  
Established: 1997  
Endowed: 1997

## 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. To be 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.

Established: 1995

Endowed: 1996

#### **Distinguished Graduating Student Award - Child and Youth Studies**

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

Established: 1998

### Child and Youth Studies/Education

#### **Margaret A. Clifford Memorial Award**

Awarded annually by application, to a student who has been admitted to the



## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

BA/BEEd (Child and Youth Studies) program. Applicants must demonstrate financial need and meet OSAP residency requirements. Applications must be received by the Scholarships Officer by August 1.

**Kimberly Wells Memorial Book Prize**  
Value: \$175. Awarded to a student graduating from the BA/BEEd (Child and Youth Studies) program, who displays strength in academics and participation in the University community.  
Donors: 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: \$1500\*. Three \$500 scholarships 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

**David R. Wills Bursary in Communication Studies**  
Value: \$800\*. Awarded to a student from Centennial High School, Welland, Ontario entering into a degree in Communications Studies. Applicants must demonstrate financial need, be in

good academic standing, and meet OSAP residency requirements. Applicants must also confirm they are non-smokers.

Donor: Mr. David Wills  
Established: 1996  
Endowed: 1996

#### Warren Hartman Bursary- Film Studies

Value: \$200\*. Awarded annually, by application; to be divided equally between each of three outstanding students majoring in Theatre/Dramatic Literature, 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 OSAP residency requirements.

Donor: Faculty and Staff, Film Studies, Dramatic and Visual Arts Department  
Established: 1997  
Endowed: 1997

#### Other Awards

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

Awarded to a graduating student with an outstanding record in Communications, Popular Culture and Film.  
Established: 1993  
Endowed: 1993

#### Distinguished Graduating Student Award - Communications

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

#### L. Amy Kerr Book Prize

Awarded to a student in any year 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

**The Sam and Sophie Yacowar Prize**  
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**  
Value: \$1250\*. 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%. Applicants must also demonstrate financial need and meet OSAP residency requirements.  
Donor: Ian D. Beddis & Family  
Established: 1999  
Endowed: 1997

#### Bursaries

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

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% in the program. Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Daniel Pembleton  
Established: 1997  
Endowed: 1997

#### Other Awards

#### Distinguished Graduating Student Award - Environmental Economics

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

#### Department of Economics Book Prize

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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Distinguished Graduating Student Award - Economics

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

### Distinguished Graduating Student Award - Bachelor of Business Economics

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

## Environment

### Bursaries

#### Canada Trust Bursary

Value: \$1000\*. Awarded annually to a full-time undergraduate student enrolled in environmental studies. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: Canada Trust

Established: 1997

Endowed: 1997

#### Robert C. Hoover Bursary

Value: \$600\*. Awarded by application to a full-time student in years 2, 3 or 4 of a major in the Centre for the Environment maintaining a minimum academic average of 70% or better. Applicants must demonstrate financial need and show academic promise. Applicants must also write a letter in confidence to the Bursary Officer indicating their desire to apply for the bursary and explaining how they meet the requirements. Bursary applications and letters will be forwarded to the Director, Centre for the Environment by the Bursary Officer. Awarded by Senate on the advice of the Director, Centre for the Environment. The deadline for receipt of applications is October 31.

Established: 1985

Donor: Friends of Professor Emeritus Robert C. Hoover

#### Howard Martin Memorial Bursary

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. Applicants must demonstrate financial need, an interest in the natural environment and a desire to communicate their interest to others. Applicants must also write a letter in confidence to the Bursary Officer indicating their desire to apply for the bursary and explaining how they meet the requirements. Bursary applications and letters will be forwarded to the Director, Centre for the Environment by the Bursary Officer. Awarded by Senate on the advice of the Director, Centre for the Environment. The deadline for receipt of applications is October 31.

Established: 1991

Donor: The Niagara Falls Nature Club

#### Larry Sweeney Bursary

Value: \$500\*. 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. Applicants must demonstrate financial need and show academic promise. Applicants must also write a letter in confidence to the Bursary Officer indicating their desire to apply for the bursary and explaining how they meet the requirements. Bursary applications and letters will be forwarded to the Director, Centre for the Environment by the Bursary Officer. Awarded by Senate on the advice of the Director, Centre for the Environment. The deadline for receipt of applications is October 31.

Donor: First Ontario Savings and Credit Union

Established: 1991

### Other Awards

#### Frank Banfield Memorial Book Prize

Value: \$50. Awarded to second, third, or fourth-year majors in Environmental Policy in recognition of academic standing and contribution to the Institute.

#### Distinguished Graduating Student Award - Environmental Sciences

Value: \$100. Awarded to the most distinguished graduate for each

department and program. The prize and a certificate will be awarded at the Convocation Luncheon.

Established: 1998

#### Distinguished Graduating Student Award - Environmental Studies

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

Established: 1998

## 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

### Bursaries

#### Gary Cornelius Bursary in Geography

Value: \$1000\*. To be awarded annually, by application, 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

Value: \$1,000. Awarded annually to a single or combined Geography student, entering third year, who demonstrates both financial need and academic success.

Donor: Dr. Gerald and Mrs. Donna Nash

Established: 2001

### 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

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.

Donors: The Barber Family  
Established: 1995  
Endowed: 1995

### **Canadian Association of Geographers 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.

### **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

### **Distinguished Graduating Student Award - Geography**

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and

a certificate will be awarded at the Convocation Luncheon.

Established: 1998

### **John N. Jackson Prizes in Human Geography**

Four awards, valued at \$150 each. Awarded to Bachelor of Arts students in Geography or Human Geography on the basis of high quality performance in a course assignment in a second- or third-year Human Geography course, which may be taken for BA credit.

Donors: Dr. & Mrs. John N. Jackson, First Chairman, Department of Geography  
Established: 1992

### **Edythe and William Meeker Memorial Book Prize**

Value: \$125. 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 Politics and the University. May not be held concurrently with the Father Sean O'Sullivan Scholarship.

Donors: Department of Politics colleagues of Dr. Hull  
Established: 1995  
Endowed: 1996

#### **Father Sean O'Sullivan Scholarship**

Value: \$2350\*. Awarded to a student with the highest average in Politics courses entering third- or fourth-year of a single or combined major in Politics.

Donors: Friends of Father Sean O'Sullivan  
Established: 1994  
Endowed: 1994

### **Mel Swart Scholarship**

Value: \$1300\*. Awarded to a senior student with a single major in Politics. The scholarship honours Mel Stewart'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**

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 Student Assistance Plan (OSAP) residency requirements.

Donor: Friends and colleagues of Bill Matheson  
Established: 1998  
Endowed: 1998

### **Rita Welch Bursary**

Value \$600\*. Awarded to a student entering year 2 of the Politics program. Applicants must demonstrate financial need. This bursary is named in honour of Rita Welch, the late wife of the Chancellor of Brock University. Students may apply by completing a Web Bursary Application form to confirm financial need plus a one page statement on "the critical role the politician plays in a democracy" and how "Political service is an honourable profession". Both the Bursary Application and the statement will be submitted to the Bursary Officer by October 15.

Donors: 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

## SCHOLARSHIPS, BURSARIES, AWARDS AND FINANCIAL ASSISTANCE

### Other Awards

#### Distinguished Graduating Student Award - Political Science

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

#### 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.  
Donors: Friends and colleagues of the President Emeritus on the occasion of his 80th birthday  
Established: 1992

#### Political Science Book Prizes

Four book prizes: awarded to outstanding student(s) from first-, second-, third- or fourth- year Political Science programs.  
Established: 1966

#### Political Science 25<sup>th</sup> Anniversary Book Prize

Value: \$50  
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

##### John Lavery Scholarship

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. The awards will be made on these terms by the Senate Committee on Awards and Bursaries, based on the recommendation of the Undergraduate

Officer in the Psychology Department. Applicants must demonstrate financial need and meet OSAP residency requirements.

Donor: John Lavery  
Established: 1997  
Endowed: 1997

### Bursaries

#### Nancy Johnston Bursary in Developmental Psychology

Value: \$990\*. Awarded annually to a third year student with good academic standing in Development Psychology courses (PSYC 2F12, 3P11, 3P18, 3P23, 3P27, 3P56, 3P74, 3P93, 3P94, 4P31, 4P32, 4P83 and CHYS 2F10, 2P35, 2P38, 2P98, 2P99, 3P20). Applicants must demonstrate financial need and meet OSAP residency requirements.  
Donor: Professor Nancy Johnston  
Established: 1997  
Endowed: 1997

### Other Awards

#### The Cara Chefurka Memorial Book Prizes

Awarded to students with the highest graduating averages in pass and honours Psychology at Spring and Fall Convocation.  
Established: 1990

#### Distinguished Graduating Student Award - Psychology

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

#### Psychology 3F40 Prize

Awarded to the PSYC 3F40 student with the most outstanding research project.

### Sociology

#### Bursaries

#### Morris Berkowitz Memorial Bursary

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.

Donors: Friends of the late Professor Berkowitz  
Established: 1981  
Endowed: 1981

#### Jean Luck Memorial Bursary

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.

Donors: Friends and family of Jean Luck.  
Established: 1994  
Endowed: 1995

#### Melvin Perlman Bursary

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 OSAP residency requirements.  
Established: 2001

### Other Awards

#### Distinguished Graduating Student Award - Sociology

Value: \$100. Awarded to the most distinguished graduate for each department and program. The prize and a certificate will be awarded at the Convocation Luncheon.  
Established: 1998

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

A 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.

### Women's Studies

#### Returning Student Scholarships

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

Value: \$1250\*. Awarded annually to a student in the Women's Studies Program. Applicants must demonstrate financial need and meet OSAP residency requirements.

SCHOLARSHIPS, BURSARIES, AWARDS  
AND FINANCIAL ASSISTANCE

**Donor:** Ernst & Young, Chartered Accountants  
**Established:** 1998  
**Endowed:** 1998

**Melvin Perlman Scholarship**

**Value:** \$500\*. Awarded to the best 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 Perlman  
**Established:** 1988

**Bursaries**

**Mallie Frances Jones Bursary**

**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 OSAP 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, 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.

**Distinguished Graduating Student Award - Women's Studies**

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

**Established:** 1998

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

**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 OSAP 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**

**Value:** \$100. Awarded to a second year Women's Studies major with the highest average in WISE courses.

**Established:** 1994  
**Endowed:** 1994

**The Melvin Perlman Award**

**Value:** \$450\*. Awarded to the best all-round student in the Centre for Women's Studies. The award is in memory of the substantial contribution Professor Perlman made to the University during his years of teaching at Brock.

**Donors:** The family and friends of Dr. Melvin L. Perlman  
**Established:** 1988  
**Endowed:** 1991

**Hazel M. Wood Prize**

**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

## Fees

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

Please note that the following fees are subject to change.

Regular Undergraduate Fee	
per full credit	per half credit
<i>Tuition</i>	
\$821.32	\$410.66
<i>*BUSAC Fee</i>	
\$11.70	\$5.85
<i>Athletic, Intramural, Recreation Program and Facilities Fee</i>	
\$13.48	\$6.74
<i>Capital Cost of the Student/Community Centre for Health and Fitness</i>	
\$15.00	\$7.50
<i>BUSAC Student Centre Construction</i>	
\$10.00	\$5.00
<i>BUSAC Capital Fund</i>	
\$2.50	\$1.25
<i>*OPIRG</i>	
\$1.50	\$0.75
<i>CANCOPIY</i>	
\$0.55	\$0.28
<i>**OUSA</i>	
\$0.40	\$0.20
<i>BUSU Safety Fee</i>	
\$0.25	\$0.12
<i>Brock Radio</i>	
\$1.50	\$0.75
<b>TOTAL FEE</b>	
<b>\$878.20</b>	<b>\$439.10</b>

\*BUSAC - Brock University Students Administrative Council

\* OPIRG - Ontario People's Interest and Research Group

\*\*OUSA - Ontario Undergraduate Student Alliance

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.

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.

Undergraduate Visa Fee	
per full credit	per half credit
<i>Tuition</i>	
\$1977.12	\$988.56
<i>*BUSAC Fee</i>	
\$11.70	\$5.85
<i>Athletic, Intramural, Recreation Program and Facilities Fee</i>	
\$13.48	\$6.74
<i>Capital Cost of the Student/Community Centre for Health and Fitness</i>	
\$15.00	\$7.50
<i>BUSAC Student Centre Construction</i>	
\$10.00	\$5.00
<i>BUSAC Capital Fund</i>	
\$2.50	\$1.25
<i>*OPIRG</i>	
\$1.50	\$0.75
<i>CANCOPIY</i>	
\$0.55	\$0.28
<i>**OUSA</i>	
\$0.40	\$0.20
<i>BUSU Safety Fee</i>	
\$0.25	\$0.12
<i>Brock Radio</i>	
\$1.50	\$0.75
<b>TOTAL FEE</b>	
<b>\$2034.00</b>	<b>\$1017.00</b>

### Health Services Fees:

In addition to the academic fee, any Canadian citizen or landed immigrant taking three or more credits in the Fall/Winter Session will be required to pay a **non-refundable health services fee** of \$20. Students paying the international (visa) student fee must pay the **non-refundable health services fee**: Students with special needs carrying fewer than three credits should contact the Services for Students with disABILITIES Office regarding their eligibility for the health services fee. This fee covers the operating costs of the health facilities on campus. Residents of Quebec may be eligible for OHIP coverage and

should inquire at Health Services for details.

### U.H.I.P.:

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 2003 \$737.92. For detailed information relating to this plan contact Brock's Health Services.

### Health Insurance Fee (BUSU):

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 (<http://www.busu.net>) or at the Health Plan office located in the Students' Center.

The fee for the plan is \$110 (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 *informed* decision.

### Fee Payment to Confirm Registration

A statement, indicating the amount due and payment instructions will be mailed to you after you have registered. Fees must be paid by the payment due date of a session. Failure to pay your fees by these dates will result in de-registration.

Payment Due Dates	
Spring Session	April 26, 2002
Summer Session	July 5, 2002
Fall/Winter Term	August 23, 2002

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.

2. At any branch if the above financial institutions except Credit Unions.

3. Mail cheque or money order to the address listed on your statement.

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 4th, 2002, at a rate of \$3 per \$100 (or part) owing. You can avoid these charges by paying in full by November 1st, 2002. Otherwise, the balance of your tuition and related fees including the carrying charge is due in full by December 18th, 2002.

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. The ancillary portion of the per course fee \$56.88 per full credit must be paid.

**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 November 1, 2002. Carrying charges are levied on November 4th, 2002 at a rate of \$3 on each \$100 (or part) owing.

**Service Charges:** If your fees are not paid in full by December 18th you 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 \$1.50 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 2002-2003 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.** The tuition credit schedule is as follows:

Duration 1 courses:		Duration 2 courses:		Duration 3 courses:	
Credit*	Withdrawal Period	Credit*	Withdrawal Period	Credit*	Withdrawal Period
100%	Sep 9 - 20	100%	Sep 9 - Sep 20	100%	Jan 6 - Jan 17
65%	Sep 21 - Oct 1	65%	Sep 21 - Sep 30	65%	Jan 18 - Jan 27
60%	Oct 2 - Oct 10				
55%	Oct 11 - Oct 21	55%	Oct 1 - Oct 8	55%	Jan 28 - Feb 4
50%	Oct 22 - Oct 30				
45%	Oct 31 - Nov 8	45%	Oct 9 - Oct 16	45%	Feb 5 - Feb 12
40%	Nov 9 - Nov 19				
35%	Nov 20 - Nov 27	35%	Oct 17 - Oct 24	35%	Feb 13 - Feb 27
30%	Nov 28 - Dec 5				
25%	Dec 6 - Jan 9	25%	Oct 25 - Nov 1	25%	Feb 28 - Mar 7
20%	Jan 10 - Jan 17				
0%	After January 17	0%	After November 1	0%	After March 7

\*Credit to be applied to your account. Refunds are only mailed if your account is paid in full at the time of withdrawal.

**FEES**

**OSAP**

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.

**Residence Fees:** In 2001-2002 the residence rates for room and board average about \$5600 depending on the type of accommodation and meal plan. An increase is expected for 2002/2003.

<b>SCHEDULE OF FEES</b>	
<b>* Fees are Subject to Change *</b>	
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.	
<b>Challenge for Credit:</b>	
Canadian Fee	\$372.00 per credit
Visa Fee	\$605.20 per credit
<b>Co-op Administration Fee:</b>	\$500.00
<b>Nursing:</b>	
Practicum Administration Fee	\$125.00 per 1/2 credit in Nursing
<b>Oenology and Viticulture:</b>	
Intern Experience	\$50.00
Administration Fee	per work term
Employment Experience	\$250.00
Administration Fee	per work term
Previous Experience	\$100.00
Evaluation Fee	per work term
<b>Late Registration Fee:</b>	\$50.00
(After the Payment Due Date of a session)	
<b>Retro-Active Per Course Add Fee</b>	\$100.00
(effective after Ministry count date for a session)	
<b>I.D. Card Replacement:</b>	\$20.00
<b>Transcript of Record:</b>	\$8.00
<b>Duplicate Tax Certificate:</b>	\$10.00
(previous year's replacement only) per copy	
<b>Returned Cheques:</b>	\$20.00
(Students whose cheques are returned NSF at registration will be charged the \$20 returned cheque fee as well as the late registration fee of \$35.)	
<b>Pre-Collection Letter Service:</b>	\$10.00
<b>Replacement of Diploma:</b>	\$35.00
<b>Another University Transcript Assessment:</b>	\$15.00
<b>Letter of Permission:</b>	\$25.00
<b>Administrative Fee for Appeals:</b>	\$50.00
<b>Verification of Registration and Other Status:</b>	\$15.00

*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.



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# Student Services and Academic Support

## I. Office of the Associate Vice-President

*Associate Vice-President, Student Services*  
Bonnie G. Neuman  
Robert J. Tiffin (as of May 15, 2002)

*Administrative Assistant*  
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 and 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  
Campus Ministries  
Leadership Programs  
Learning Skills Services  
Personal Counselling Services  
Services for Students with disABILITIES  
Student Non-Academic Discipline  
Career Services  
Health Services  
Office of the Registrar  
Academic Services (Advising)  
Academic Appeals  
Admissions  
Examinations and Scheduling  
Financial Aid and Awards  
Student Records and Registration  
Recruitment and Liaison Services  
Residence and Food Services

## II. Student Development Centre

*Administrative Assistant*  
Peggy Karges

905-688-5550, extension 3240  
Schmon Tower 400

### 1. Aboriginal Student Services

*Adviser*  
Sabrina Redwing Saunders

905-688-5550, extension 3240  
Mackenzie Chown C302  
Monday-Friday: 8:30 a.m. - 4:30 p.m.  
Closed: 12:00 noon - 1:00 p.m.

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
- maintaining an Aboriginal resource library including newspapers, texts, and CD's
- providing training to Brock faculty and staff.

### 2. Learning Skills Services

*Learning Skills Instructor*  
Fran Young

905-688-5550, extension 3114  
Schmon Tower 400

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

905-688-5550, extension 4750

Schmon Tower 400

<http://www.brocku.ca/studentdevcentre/counselling>

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 to five 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.  
<http://www.brocku.ca/studentdevcentre/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, and
- acting as liaison with the Residence Life Staff and the Brock Off Campus Society.

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

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*

Cathie Closs

905-688-5550, extension 3240

Schmon Tower 400

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

## STUDENT SERVICES AND ACADEMIC SUPPORT

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 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 page (<http://www.brocku.ca>).

### III. Campus Ministries

Reverend Dr. George Tattrie  
(*Protestant Ecumenical Chaplain*)  
Donna Hollands-Hurst  
(*Roman Catholic Ecumenical Chaplain*)  
Peter Schuurman  
(*Christian Reformed Ecumenical Chaplain*)

905-688-5550, extension 3373  
Decew Residence 201 and 202  
<http://www.brocku.ca/ministries>

#### 1. Chaplains' Office

Campus Ministries believes that spiritual development is an integral part of the university experience and provides people oriented ecumenical worship, spiritual direction, pastoral counselling, workshops, seminars, 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 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 on-campus chaplains in our DeCew Residence Office.

#### 2. Rita Welch Meditation Centre

The Rita Welch Meditation Centre 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 mediation

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

### IV. Career Services

Director  
Amy Elder

Administrative Assistant  
Sherry Seibel

905-688-5550, extension 3242  
Schmon Tower 411

Career Services provides four key areas of service for Brock students:

- assisting Brock students with career exploration, employability skills development and job search
- recruiting employers to advertise employment opportunities at Brock and hire Brock students/graduates
- administering the EXPERIENCE Plus! careers oriented, work experience program
- administering the Med Experience Plus health career exploration program

Career Services provides assistance to Brock students with career planning and job search with a variety of services, whether you're looking for part-time work while you study, or if you're ready to launch your career after graduation.

We offer:

- drop-in career consultations with our Career Assistants
- workshops on writing cover letters, resumes, job search strategies and interviewing
- a career resource library to investigate occupations, employers, volunteer opportunities, further education programs
- postings for permanent, part-time and

- summer jobs
- Graduating students employer recruitment program
- annual Spring Career Day for students to meet potential employers
- annual Canadian Graduate Education Fair for students to explore postgraduate education opportunities
- drop In Resume Write for tips on constructing effective resumes
- annual Part-time Job Fair, Summer Job Fair, and Volunteer Opportunity Fair
- computers to use for career and job searching, resumés, cover letters and portfolio development
- career assessments and career development planning.

Career Services recruits employers to come to the Brock campus to recruit Brock graduates with several services including:

- annual mailings to employers across Canada to promote the employability strengths of a Brock degree
- job posting sites in the Career Centre and on the Internet
- organization of annual Careers Day and other on-campus presentation opportunities
- interview arrangements and campus interview rooms.

Career Services co-ordinates EXPERIENCE Plus!, a careers-oriented work experience program, that is open to students in any faculty at Brock. Students in the program build their experience and employability skills in specific career streams by combining a variety of paid part-time work experiences, volunteer activities, and employment skills workshops into a documented career portfolio. The EXPERIENCE Plus! program supplements Brock's high quality academic environment with hands-on pragmatic work skills and instruction in employability skills development, to give you a competitive edge in finding the right career after graduation.

Career Services also co-ordinates Med Experience Plus, a four year, non-credit program for students interested in pursuing medical school or a health-related career. Med Plus is an intensive, extracurricular program that runs concurrently with a Brock student's academic degree. The program enhances a

student's academic studies with experience and skills developed through six components: Lecture/Discussion Series, Observation Visits, Volunteer Placements, Student Mentoring, Individual Development Workshops and Program Advising. Enrolment in Med plus is limited, and to be eligible for the program, applicants must have a minimum academic average of 80 percent in their previous year of schooling. Students must apply and be accepted to participate in the Med Plus program activities.

## V. Student Health Services

*Director of Clinical Services*  
Melodie Shick-Porter

*Harrison Hall*  
905-688-5550, extension 3243  
Monday to Thursday: 8:30 a.m. - 4:30 p.m.  
Friday: 8:30 a.m. - 4:00 p.m.  
Walk-In Clinic - Thursday: 4:30 p.m. - 7:00 p.m.  
Closed: May - August  
<http://www.brocku.ca/healthservices>

### 1. General Information

Don't feel you have to wait for a problem to arise 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.

The health fee paid by all full-time students at registration covers many value added services including the Health Education Program etc. OHIP, UHIP or other health insurance is needed in order to be seen by a physician. **All visits and treatments are strictly confidential.**

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 a *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.

## VI. International Services

*Manager*  
John Kaethler

*Administrative Assistant*  
Geeta Powell

905-688-5550, extension 4318  
Decew Residence R209  
<http://www.brocku.ca/international>

"Every student is an international student", according to John Kaethler, Manager of International Services.

**1. International Student Advising**  
International students may find it helpful to discuss academic or personal problems with the manager and his assistant. 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. Host Family Program**  
International Services, in conjunction with the St. Catharines University Women's Club, offers international students a Host Family Program. This is not an accommodation service, but an opportunity for international students to meet informally with Canadian families.

**3. Peer Partner Program**  
The office 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. Each peer partner can help international students adjust to life at Brock.

**4. International Study, Employment and Development**  
The manager and his assistant also assist Canadian students interested in studying or working in other countries. They administer exchange programs to Argentina, Australia, Austria, Brazil, Colombia, Finland, France, Japan, Korea, Mexico, Netherlands, Sweden, the United

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Kingdom, the United States and Uruguay. Students with disabilities are welcomed to apply. They are also responsible for international development activities on campus.

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### VII. Office of the Registrar

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#### *Registrar*

Robert J. Tiffin  
905-688-5550, extension 4277  
Schmon Tower 301  
rtiffin@spartan.ac.brocku.ca

#### *Assistant to the Registrar*

Linda Rynberk  
905-688-5550, extension 3550  
Schmon Tower 301

The Office of the Registrar is located on the third and fourth floors of Schmon Tower and is comprised of the following units:

- Academic Advising
- Admissions
- Awards and Financial Aid
- Examination and Classroom Scheduling
- Student Records and Registration

Our office hours are Monday - Thursday, 8:30 a.m. to 5:00 p.m., and Friday 8:30 - 4:30 p.m.

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. In addition to the federal and provincial loans programs, e.g. OSAP, Bursary for Students with Disabilities, our Awards and Financial Aid department administers all academic and financial need-based awards and bursaries.

Students may obtain additional information about other on-line registrarial services by contacting our web site: [www.BrockU.ca/registrar](http://www.BrockU.ca/registrar).

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### VIII. Recruitment and Liaison Services

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#### *Director*

Sandie Coppinger

#### *Administrative Assistant*

Cindy Curtis

905-688-5550, extension 3564  
Thistle East 261  
Monday to Friday: 8:30 a.m. - 4:30 p.m.

Recruitment and Liaison staff communicate information about Brock's academic programs and campus life to high schools, prospective students, parents and the general public.

Recruitment and Liaison Services coordinates Brock's undergraduate recruitment activities, including :

- Fall Preview Day and Spring Open House
- responses to queries about Brock programs
- presence at educational fairs across Ontario, Canada and internationally
- defining advertising needs
- direction of Campus Tour program
- hosting visiting dignitaries, school representatives and individual
- families or students during their campus visits

There are many opportunities for students to assist with open houses and campus tours.

Campus tours are available weekdays throughout the year at 10:00 a.m. and 2:00 p.m. Saturday tours are available in October and November. Registration is required.

Prospective students are encouraged to make arrangements ahead of time so that appointments can be made for them to speak with professors in their area of interest. Tours for students with special needs are available by calling the Office of Recruitment and Liaison. These tours outline specific access routes to buildings, classrooms and parking and may include the wheelchair accessible housing units on campus.

To arrange a tour, call the Office of Recruitment and Liaison Services at 905-688-5550, extension 4293 or visit <http://www.brocku.ca/liaison>

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### IX. Residence and Food Services

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#### *Director, Residence and Food*

James R. Fleming

#### *Decew Residence 205*

905-688-5550, extensions 3370, 3594  
<http://www.brocku.ca/residence>

Brock has four residences: DeCew, a traditional-style on-campus residence with all-male, all-female and co-ed accommodations and self-contained dining hall; Vallee and Earp Residences are also traditional-style residences on campus, having all single rooms and students eat in the same dining hall as DeCew residents; or The Village, that combines the independence of townhouse living with the convenience of an on-campus location.

All residence rooms provide the basic necessities including phone, internet and cable television connections and all residences provide opportunities for residents' input through the Residence Action Council or the Residence Life Staff.

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 admis-

sion. There are a limited rooms available for students with wheelchair accessibility needs. Special housing needs should be discussed with both the Department of Residences and the Services for Students with disABILITIES Office.

In addition, the Department of Residences staff posts listings of available rooms, apartments and houses for those looking for off-campus accommodations. Off-campus housing listings are available on the Web as well. A package that contains everything you need to make the search a little easier, from a list of average rents to basic landlord/tenant issues.

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## X. Day-care Centre

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*Director*  
Leah Lautenbach

*Day-care Centre*  
905-688-5550, extensions 3515 and 4433

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.

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## XI. Sexual Harassment Adviser

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*Sexual Harassment Adviser*  
Carolyn Brendan

905-688-5550, extension 3240  
Schmon Tower 400

Sexual harassment is unwanted behaviour in the form of sexual advances, requests for sexual favours or physical or verbal conduct of a gender- or sexually-oriented nature that interferes with your studies or academic performance by creating an intimidating, hostile or offensive academic environment.

We hope that you do not experience any type of harassing behaviour during your time at Brock. If, however, you feel upset or confused by any behaviours similar to those given above, please come and talk to me about it. All visits are confidential. I can help you clarify the situation so that you can decide on a course of action or I can act on your behalf.

For more information, drop in or call  
905-688-5550, extension 4019.

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## XII. University Library

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*University Librarian*  
Margaret Grove

*Administrative Assistant*  
Fatima Noorbhai

905-688-5550, extension 3226  
Schmon Tower  
<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 to support both teaching and research programs. The library staff, aided by the University community, works to make the Library a base for teaching, study and research. The University Library comprises the James A. Gibson Library and the Map Library.

The James A. Gibson Library is housed on seven floors of the Schmon Tower, the focal point of the campus. All students have access to its collections, numbering over one million items. Individual study and specialized seating is available for 700 readers. The Library is open, including evenings and weekends, for over 90 hours each week; hours are extended during exam periods.

Detailed information on collections, services and hours can be found in a series of printed guides available in the Library and is also available on the Library's Web page.

### Access to Resources

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

The Library home page (<http://www.brocku.ca/library/>) is designed to help Brock Library users locate information on the World Wide Web. It offers direct access to the on-line catalogue, a large number of electronic databases, electronic journals and a broad range of other subject resources.

### Assistance in Using the Library

Librarians are available at the Reference Information Desk on the main floor to assist in the use of the collections and other resources. Individual and group orientation tours are provided at the beginning of term; library instruction and subject-related seminars are scheduled on request. Special services are provided for students who are taking courses at off-campus teaching sites; details may be obtained from the Reference Information Desk.

### Services for Students with Disabilities

The Library is wheelchair accessible. Equipment for the use of special needs students has been installed in the Library, access to which must be arranged with the Services for Students with disABILITIES Office in the Student Development Centre (Schmon Tower, fourth floor). These students may also apply, in the

Library, for the use of individual closed study carrels and lockers. The Brock catalogue is available at an adjustable work station which has voice-over and large print capabilities. The Library can also provide access to talking book material. 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.

### 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 and for printing from library work stations. Requests for special copying should be directed to staff in the Photocopy Office.

### Library Collections

The Library maintains a number of separate collections. The Reserve Collection contains heavy-demand books and articles which are required course reading. The Government Documents Collection contains official publications of all levels of government and of international organizations and is an important source of information on a variety of economic, social and political subjects. The Library is a selective depository for Canadian federal publications and 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 recordings of music, plays, documentaries and lectures, and a collection of instructional and cultural videos. Players for records, compact discs and cassette tapes are provided, plus viewing stations for videos. 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 72,000 maps and airphotos, and offers a growing number of digital resources and services.

### Borrowing from Other Libraries

Items not available in the Library's collections 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 resources and while there, may borrow books which normally circulate (except from the University of Toronto). These books may be returned directly to the library from which they were borrowed, or may be returned via the Circulation Desk at Brock.

## XIII. Map Library

*Map Librarian*  
Colleen Beard

*MacKenzie Chown C306*  
<http://www.brocku.ca/maplibrary/>

The Map Library is located in the Mackenzie Chown Complex, Room C306. It contains 54,000 map sheets, including a complete set of Canadian federal topographic maps, geologic maps, hydrographic charts, local trails and many other special-purpose maps, 1,000 atlases and 16,800 airphotos of the Niagara Region dating from 1921 to the present. The Map Library carries an extensive collection of digital geospatial data, including Niagara topographic, soil, agriculture and census data, outline maps, as well as a selection of electronic world atlases. A PC cartographic workstation is available for accessing digital map products and also supports GIS (Geographic Information Systems). A description of the collection, an electronic census atlas of Niagara, and digital outline maps are accessible through the web site at <http://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.

## XIV. Instructional Resource Centre

*Manager*  
Joanne Smith

*Faculty of Education*  
<http://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 6/7 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 6/7 at the Hamilton Campus. In addition to providing classroom audio-visual equipment, Media Services has production areas with laminating presses, lettering systems, video editing facilities and other equipment to assist in the production of teaching aids.

IRC Computer Services offers three computer laboratories in Robert S. K. Welch Hall (WH311A and WH319). 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 focussing 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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## XV. Information Technology Services

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### *Director*

Jim Lennard

### *Administrative Assistant*

Barb White

### *MacKenzie Chown F301*

905-688-5550, extension 3479

<http://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 NX4600 enterprise server and several NT servers to support administrative computing and 4 large Silicon Graphics UNIX servers to support academic teaching and research. Information Technology Services also supports many departmental UNIX machines placed throughout the University. 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 pieces of software on the servers are supplied with a user code by their instructor, otherwise general Internet access and electronic mail accounts are freely available via an automated system in any of the general computer labs on campus.

The academic systems support standard programming languages such as FORTRAN (77/90), PERL, C and C++, together with a number of application packages which include SAS, SPSS, IMSL, Gaussian94 and MATHEMATICA.

The University supports scheduled micro labs and drop-in labs for general purpose academic use. The scheduled facilities are located in rooms A203, F316, F317, J201, J202 and TA304. The drop-in labs are

located in C300 and A204. A203 supports the Windows operating system on 46 Pentium microcomputers; F316 contains 24 Power Macintosh computers; F317 is a Windows lab with 20 Pentium computers installed with colour monitors; J201 supports 48 Pentium microcomputers; J202 supports 41 Pentium colour microcomputers. During the Fall and Winter terms, some micro computing labs 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 work station.

Communications and Network Services, a division of Information Technology Services, provides multiple services for Faculty, Staff and Students. Located in the west corridor of the Thistle Complex, the Media Services section supplies portable computers for teaching and student presentations. Other equipment available for classroom use includes overheads, flip-charts, slide projectors, video cassette recorders, portable stereo systems, and video projection systems. Equipment requests must be at least 24 hours in advance and can be scheduled by calling extension 3588.

Our technical support team services Brock University's microcomputers and associated network infrastructure. Additionally, Communications Services ensure telephone, network access and cable television is available to all on campus residential students. During the academic term staff may also assist students with configuring their personal computers for network access and when appropriate, repair computers. The network centre staff is responsible for network operations and assigning network addresses to student computers. Student photo identification cards are produced during normal working hours.

Office hours are: Monday to Thursday, 8:00 a.m. to 9:00 p.m. and Friday, 8:00 a.m. to 4:00 p.m. Communication and Network Services can be contacted by dialing extension 3260.

# Life at Brock

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## I. Student Organizations

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### 1. Brock University Students' Union

*Administrative Assistant*  
Tricia McLaren

905-688-5550, extension 3568  
Student Centre 313

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, and report regularly to the Brock University Students' Administrative Council (BUSAC).

Aside from the entire student body through referendum or AGM, BUSAC is the most powerful student collection on campus. BUSAC is comprised of representative students from each faculty as well as representatives from residence, students off-campus, international students and students with diverse abilities. BUSAC is responsible for managing the affairs of the union and implementing policies as well as acting as the voice of all students at Brock University.

Through student fees, BUSU operates a number of businesses and services for students. Businesses include the General Brock and Sophie's convenience stores, Isaac's Bar and Grill, the Central Advertising Bureau and the Brock Press. Services available to students include the Brock Off-Campus Society (BOC), Brock Foot Patrol, Office of the Ombudsman for Students, an emergency food bank and emergency student loan program. BUSU also sponsors, and is the primary organizer for, Orientation week, as well as a number of charity events.

BUSU also supports as many as 50 clubs a year, all of which are open to every Brock student. In addition to these services, BUSU has launched the new website <http://www.BUSU.net>

Log onto <http://www.BUSU.net> to keep up-to-date with current news around Brock University and to find out more about what BUSU can do for you. The site includes a section for classified ads, a virtual calendar, a used textbook exchange, a chat room, online games, and job opportunities.

### 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.

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## II. Athletics and Recreational Services

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*Administrative Assistant*  
Sandra Boone

905-988-5550, extension 3384  
Physical Education 215

### 1. Athletics

*Director*  
Lorne Adams  
Physical Education 213

Brock University's Department of Athletics provides students with the opportunity to take part in athletics both as participants and fans. Interuniversity activities are available to all students and cater to those interested in the pursuit of excellence. Each year approximately 560 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. Interuniversity 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 badminton, basketball, cross country, curling, fencing,

figure skating, ice hockey, lacrosse, rowing, rugby, soccer, swimming, volleyball and wrestling. Competition is also offered in field hockey.

Also in the OUA, men's teams compete in badminton, basketball, cross country, curling, fencing, golf, ice hockey, lacrosse, rowing, rugby, soccer, squash, swimming, tennis and wrestling. Competition is also available in baseball, lacrosse and volleyball.

Brock Athletics is a member of the Canadian Interuniversity Athletic Union (CIAU). The CIAU is the governing body for university sport in Canada. Each year 10,000 student-athletes across Canada participate in a competitive schedule of approximately 3000 events starting in September and continuing to March.

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.

## 2. Campus Recreation

### *Director*

Karen McAllister-Kenny  
*Physical Education 214*

It is customary for Recreation Services to first highlight the many programs that we provide to Brock Students. However 2002 is special in that it marks the opening of our new Recreational facilities that we now feel are now among the best in Canada.

### Facilities

Our new Student /Community Health and Fitness Centre will add 4 gymnasias, an indoor 200 metre running track, a climbing wall, a health club, 2 studios (multipurpose and already in use), a food court, and a two level student lounge to existing facilities. Existing facilities include a 50 metre, 8 laned Olympic sized swimming pool, dry saunas, a whirlpool, two gymnasias, squash and racquetball courts, an indoor training centre for rowing complete with a rowing tank for up to 8 rowers, rowing

ergometers, and a weight training area.

Four outdoor all-weather tennis courts and numerous fields compliment the indoor facilities.

Recreation services offers a wide range of competitive and instructional activities for all levels of ability.

The aim of our programs is to provide varied opportunities for physical activity through access to competitive leagues, recreational leagues and instructional programs that can enrich student life.

### Aquatics

Over 64,000 people used the Brock pool this past year. Aquatics provides students, and community alike, with many opportunities including adult learn to swim levels, scuba, snorkeling, diving and lifeguarding related courses. Swim teams for all ages and skill abilities can be seen practicing in our facility from dawn to dusk.

Specific aquatics needs will be provided upon request through Aquatics staff.

### Recreation

For those who prefer not to participate in structured programs, our new facilities provide the opportunity for recreational activities of your choosing

### Intramurals

Competition: Team and individual leagues are offered through our Intramural program on a scheduled basis, with officials, league standings and playoffs. Different levels of play are available. Men's, women's and co-ed programs are offered. Leagues include slow pitch, flag football, volleyball, soccer, inner tube water polo, underwater hockey, squash, tennis, badminton and broom ball and more.

### Instructional

If you want to be introduced to a new activity or want to improve existing skills, join one of the instructional programs. Non-credit courses are offered in many

forms of dance, fitness, racquets, personal training, fencing, climbing, yoga and tai chi. Over 40 different fitness and spinning classes are offered. Certification programs including First Aid, Fitness Leadership, Personal Training, Sports Injury Prevention and Care, National Coaching Certification are available.

As the largest assembly area on campus, the complex is also used for examinations and convocation.

### Access

All activity areas within the Physical Education Complex are fully accessible to students with special needs. Program areas are accessible by the elevator from the Welcome desk /main lobby area or directly from the ground entry level.

### Employment

Many employment opportunities are available in Facilities, Aquatics, Intramurals, Fitness and Instructional for students.

We look forward to seeing you working out, swimming, taking a course or playing an Intramural sport.

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## III. Parking Services

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### *Supervisor*

Sam Cusick

905-688-5550, *extension 4309*  
*Schmon Tower 1220D*

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 at:

<http://www.brocku.ca/parking>

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#### IV. The Book Store

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*Director, Bookstore Operations*  
Trudy Lockyer

*Administrative Assistant*  
Rachael Winterbottom

905-688-5550, extension 4402  
Thistle South 219

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 a.m. to 7:00 p.m., Friday 9:00 a.m. to 4:30 p.m.; July and August: Monday - Friday 10:00 a.m. to 4:30 p.m.

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#### V. Alumni Affairs

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*Director*  
Christine Jones

*Administrative Assistant*  
Vera Terpak

905-688-5550, extension 3816  
Thistle East 265

With your graduation comes a new relationship with the University. You will have joined the more than 39,000 members of Brock's Alumni Association. Full membership privileges (including special membership prices at the Physical Education 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. The Alumni Affairs office is your main contact. The goal of the Alumni Office is to develop and foster programs that serve Brock graduates. The programs organized by the Alumni Office include Homecoming, affinity programs, networks of graduates across Canada and internationally, reunions, student alumni program and the Brock Ambassadors. The Alumni office also works closely with the volunteer members of the Alumni Association representing the collective interests of Brock's alumni.

Contact is maintained with our growing number of graduates through *Surgite* magazine, published four times a year. Also, Brock's TeleGrad Office contact all graduates to provide an update on what is happening at Brock and to invite support for the University's annual giving program, capital appeals or surveys. The students are the beneficiaries of the support from Brock's graduates.

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#### VI. Alumni Association

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The mission of the Brock University Alumni Association is to foster a spirit of loyalty to the University among the graduates; to support the University by promoting its welfare and advancing its interests and influence; to maintain and promote unity and a spirit of friendship among graduates; to raise funds on behalf of the University; and to maintain a fund or funds and to apply the interest from this for charitable purposes including making awards to individuals or organizations with the University to assist in the promotion of education, arts and recreation; and to develop and maintain strong links to the various bodies within the University, both academic and administrative, to foster a greater understanding of alumni issues and needs.

Each year, the Alumni Association presents a number of awards and scholarships for academic excellence. A \$500 Alumni Student Award is given to a third- or fourth-year student who has contributed

to the extra-curricular life of the University while maintaining a satisfactory grade. The Badger Award is to honour a graduating student who has demonstrated outstanding leadership qualities by their involvement in the extra-curricular life of the University, while maintaining an above average academic standing. The Jim Gayman Bursary is presented to an outstanding residence student and the Alumni Award for Excellence in Teaching is presented to an outstanding faculty member. In addition, the Alumni Association has established a scholarship to support a student entering the Oenology and Viticulture program.

For information about the Alumni Association, contact the Alumni Office, Thistle 263, (905) 688-5550, extension 3816 or visit the Alumni Association's website at:

<http://www.alumniassociation.brocku.ca>

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#### VII. Development Office

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*Director*  
Christine Jones

*Administrative Assistant*  
Vera Terpak

905-688-5550, extension 3816  
Thistle East 265

The aim of the Development Office is to develop and maintain programs which will attract maximum private sector support to advance the objectives of Brock University. The office 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.

Donations to Brock University are eligible for a charitable receipt for income tax purposes.

Your interest in the University can be perpetuated with a planned gift. A bequest is an example of a planned gift. It is expressed through your will by simply stating that Brock University is to receive a certain sum of money, a specified piece of property (art, books, life insurance, real estate, etc.), a stated percentage, or residual interest in your estate after other obligations have been satisfied. Life insurance, annuities, residual/remainder interest and trusts are some of the other forms of planned gift arrangements available to a donor. These gifts are designed to meet the needs of the donor and Brock University by maximizing the potential of the value of the gift over extended periods of time. Deferred giving allows you the opportunity to provide the financial support for an endowed gift in honour of an individual.

The Development Office also maintains a list of those companies which will match your donation.

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 keep deserving and excellent students, faculty and staff.

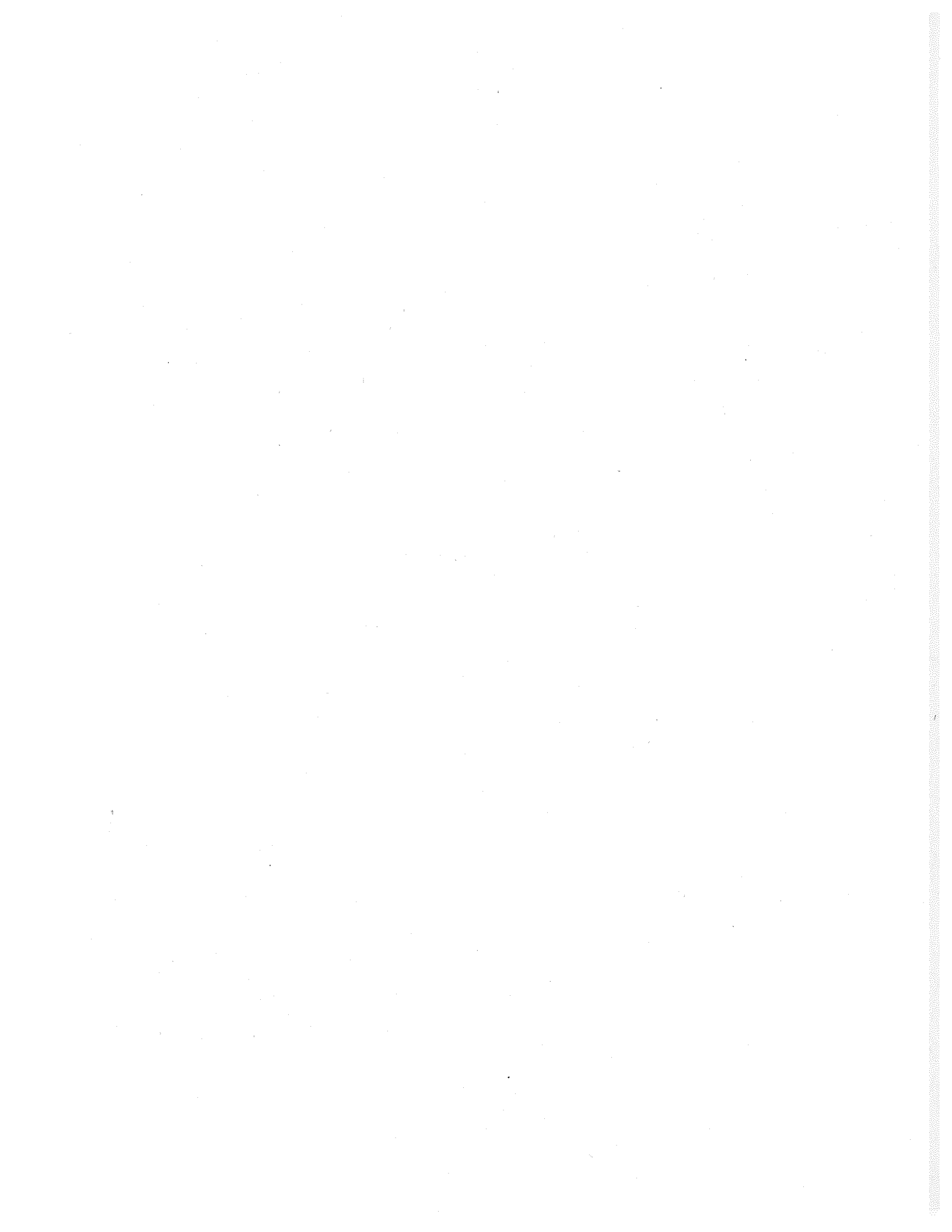
The Development Office welcomes the opportunity to consult with you. The University's Donor Recognition Policy will suitably acknowledge your support.

For further information please write or call:

The Office of External Relations  
Brock University  
St. Catharines, Ontario  
L2S 3A1

905-688-5550, extension 4320  
Fax: 905-641-5216

Charitable Business Number  
R118819531 RR



# ACADEMIC PROGRAMS





## Accounting

*This program is co-ordinated by the  
Department of Accounting and Finance*

### Chair

Donald Cyr  
Sandra Felton (as of July 1, 2002)

*Director, Co-operative Programs*  
Cindy Dunne

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## General Information

*Administrative Assistant*  
Marisa Battista

905-688-5550, extension 3918  
Taro Hall 233  
<http://www.bus.brocku.ca>

The Faculty of Business offers four-year, 20 credit programs in Accounting and Business Administration. Subsequent degrees are available in the Bachelor of Accounting and Bachelor of Business Administration programs for students holding an undergraduate degree in another discipline. A five credit minor in Business is open to Brock students pursuing degrees in other Faculties. The Faculty of Business also offers a Bachelor of General and Applied Studies to qualified students from Seneca College.

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## Bachelor of Accounting

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 minimum grade requirement for admission to the Accounting program is a 75 percent average on six OACs (or equivalent) including at least one Mathematics (calculus or finite preferred)

and at least one OAC English. The curriculum in Accounting is offered only as an honours program. This is a limited enrolment program. On successful completion of the program, the degree Bachelor of Accounting (BAcc) is awarded. The Bachelor of Accounting program is offered as a regular four-year honours program and on a Co-operative work/study basis.

The requirement for graduation is a minimum 70 percent major average and a minimum 60 percent non-major average. Students should take courses in the order prescribed below.

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## 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).

Admission to the Co-op program is on the basis of marks and a review of personal résumés. An interview may be required. The normal requirement for admission is a minimum 80 percent average or more on six OACs (or equivalent) including at least one Mathematics (calculus or finite preferred) and at least one OAC English. Promising students with lower grades may be accepted. For additional information, prospective students should contact the Director.

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## Periodic Review of Eligibility to Continue

Students admitted to the Bachelor of Accounting Co-op program must follow the Co-op program schedule. The eligibility of each student to continue in the Bachelor of Accounting program will be reviewed when the student has attempted three or more credits since the previous review.

Eligibility to continue is based on the student's major average and non-major average.

### BAcc Co-op

1. A student with a minimum 70 percent major average, a minimum 60 percent non-major average, and a 70 percent average in ACTG courses, will be permitted to continue.

2. A student with a major average lower than 70 percent or a lower than 67 percent average in ACTG courses will not be permitted to continue in the BAcc Co-op program. If a student subsequently raises his/her major average and ACTG average to 70 percent, the student may be readmitted to the BAcc Co-op program only if approved by 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 Non-Co-op

1. A student with a minimum 70 percent major average, a minimum 60 percent non-major average, and a 70 percent average in ACTG courses, will be permitted to continue.

2. A student with a major average lower than 67 percent or a lower than 67 percent average in ACTG courses will not be permitted to continue.

## ACCOUNTING

3. Any student with averages that do not fit into categories 1 or 2 above, may be permitted to continue, but will be informed by letter that both a minimum 70 percent major average, and a minimum 60 percent non-major average, and a 70 percent average in ACTG courses must be achieved on or before the date of the next review.

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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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#### Bachelor of Accounting (Non Co-op)

##### Year 1

- ACTG 1P11, 1P12 and 1P71
- ECON 1P91 and 1P92
- ITIS 1P97
- MATH 1P97, 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, 3P22, 3P23, 3P33 and 3P41
- MGMT 3P82
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- one-half elective credit

##### Year 4

- ACTG 4P11, 4P12, 4P34 and 4P41
- MGMT 4P89
- one elective credit

#### Program A\*:

- ACTG 4P42, 4P61 and 4P62

#### 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 of the Accounting and Finance department.

#### Bachelor of Accounting (Co-op)

##### Year 1

- ACTG 1P11, 1P12 and 1P71
- ECON 1P91 and 1P92
- ITIS 1P97
- MATH 1P97, 1P98
- one Humanities context credit

##### Winter Term:

- ACTG 0N90

##### Year 2

##### Fall Term:

- ACTG 2P31 and 3P22
- ECON 2P23, 2P91
- FNCE 2P91

##### Winter Term:

- ACTG 0N01

##### Spring/Summer Sessions:

- ACTG 2P21, 2P32, 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, 3P41

- POLI 2P62

##### Year 4

##### Fall Term:

- ACTG 4P41
- MKTG 2P91
- OBHR 2P91
- OPER 2P91
- one-half elective credit

##### Winter Term:

- ACTG 0N04

##### Spring/Summer Sessions:

- ACTG 4P34, 4P42, 4P61
- one-half elective credit

##### Year 5

##### Fall Term:

- ACTG 4P11, 4P12, 4P62
- MGMT 4P89
- 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). The requirements for graduation with a Bachelor of Accounting are a minimum 70 percent major average and a minimum 60 percent non-major average. 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 Concentration in Accounting

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Consult the Business entry for a listing of course requirements.

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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
- FNCE 2P51
- MGMT 1P91, 1P92 and 3P81
- MKTG 2P51
- OBHR 2P51
- OPER 2P51

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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 credits (one of which may be in business) numbered 2(*alpha*)00 level or above

# Accounting and Finance

## *Chair*

Donald Cyr  
Sandra Felton (as of July 1, 2002)

## *Professor Emeritus*

J. Robert Hanrahan

## *Professors*

William Richardson, Robert Welch

## *Associate Professors*

Ian Adamson, Thomas H. Barnes, Gail Lynn Cook, Louis Culumovic, Donald Cyr, Maureen E. Donnelly, Sandra M. Felton, Raafat R. Roubi, Barbara Sainty, Paul Scarbrough, Linda Stillabower

## *Assistant Professors*

Mohamed Ayadi, H. Donald Brown, Ernest N. Biktimirov, Paul Dunn, Howard B. Nemiroff, Anamitra Shome, Allister W. Young

## *Lecturer*

Shari Leitch

## *Director, Co-operative Programs*

Cindy Dunne

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## General Information

---

*Administrative Assistant,  
Marisa Battista*

905-688-5550, extension 3918  
Taro Hall 233  
<http://www.bus.brocku.ca>

The Department of Accounting and Finance offers four-year, 20 credit programs in Accounting and Business Administration. Subsequent degrees are available in the Bachelor of Accounting and Bachelor of Business Administration programs for students holding an undergraduate degree in another discipline. A five credit minor in Business is open to Brock students pursuing degrees in other Faculties. The Faculty of Business also offers a Bachelor of General and

Applied Studies to qualified students from Seneca College.

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 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.

*Please consult the relevant entries for a listing of courses and program requirements.*

# Applied Language Studies

## *Chair*

John N. Sivell

## *Professor*

John N. Sivell

## *Associate Professors*

Glenwood H. Irons, Cheng Luo, Hedy M. McGarrell, Donna R. Patrick

## *Assistant Professors*

Monica Sanchez, Richard J. Welland

## *Undergraduate Co-ordinator*

Richard J. Welland

## *Co-ordinator, Master of Education with Specialization in TESL*

Hedy M. McGarrell

## *Director, Intensive English Language Program*

Glenwood Irons

---

## General Information

---

### *Administrative Assistant*

Leona Volterman

905-688-5550, extension 3374

Mackenzie Chown A242

<http://www.brocku.ca/appliedlang/>

The Department of Applied Language Studies offers programs leading to honours and pass BA degrees in applied language studies, with specializations in Communication Disorders, Linguistics, or Teaching English as a Second Language. A Certificate program in Teaching English as a Second Language is also offered. The department also offers courses in areas related to communication disorders and in structures of specific languages, including Sign Language and English as a Second Language.

English As A Second Language (APLS) courses are designed to enhance and develop the English speaking and writing ability of students whose native language is not English.

Students with scores below TOEFL 580, TOEFL CBT 237, MELAB 90, IELTS 7.0 who have been accepted into academic programs are required to register in APLS 1P80 and APLS 1P81 in Year 1 along with no more than four credits.

A background in linguistics is essential for language teachers, translators, speech-language pathologists, audiologists and many other language professionals. The study of linguistics involves not only the structure of languages but also their acquisition in first- and subsequent-language settings, their role in communication and their status as the products of particular cultures and other social groups.

Three specific streams allow students to develop a strong background in the core areas of linguistics and to specialize in their area of particular interest.

The Communication Disorders stream is a pre-professional program that provides background in normal speech and language processes, language development and disorders of human communication. While successful completion of these courses does not qualify students to evaluate or treat individuals with communication disorders, this stream is of particular interest to students who are pursuing careers as speech language pathologists or audiologists and who intend to pursue graduate studies in these fields.

The Linguistics stream provides background for the analysis of language. Along with the introductory courses (LING 1F91 and LING 1F94), there is a core of courses which focus on phonology, syntax, language and culture, ethnography, discourse analysis, language and gender, and language learning.

The Teaching English as a Second Language (TESL) stream is offered as a four-year honours program and provides background in theories and metho-

dologies relevant to the learning and teaching of English as a second or subsequent language.

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.

The Intensive English Language Program (IELP) provides 25 hours of English instruction per week in: grammar and writing, guided reading, spoken English and listening. This program is open to all non-native speakers who wish to improve their English for academic, professional or social purposes. Inquiries should be sent to the Director, Intensive English Language Program.

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## Language Requirement for Humanities Majors

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LING majors 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 (such as Mandarin Chinese or Japanese) or Sign Language courses are recommended.

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## Program Notes

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1. Context credits and language requirement must be completed within the first 10 credits.
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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**Communication Disorders stream**

*Year 1*

- LING 1F91 and 1F94
- PSYC 1F90
- one Science context credit
- one elective credit (see program note 1)

*Year 2*

- LING 2P50, 2P61, 2P93, 2P96, 2P97 and 2P98
- two elective credits (PSYC 2F23 strongly recommended) (see program note 1)

*Year 3*

- LING 3P51, 3P94, 3P98 and 3P99
- one credit from LING 2P99, 3P92, 3P96, 3Q91, CHYS 3P11, PSYC 3P88, 3P98, 3P99
- two elective credits (PSYC 2F12 or CHYS 2F10, and BIOL 2P97 or CHSC 2P09 recommended)

*Year 4*

- LING 3P95, 4P20, 4P21 and 4P30
- one credit from LING 4P40, 4P41, 4P50, 4P60, 4P99
- two elective credits (PSYC 3P94 recommended)

**Linguistics stream**

*Year 1*

- LING 1F91 and 1F94
- one Humanities context credit
- one Science context credit
- one elective credit (COMM 1F90 recommended) (see program note 1)

*Year 2*

- LING 2P50, 2P53, 2P61, 2P62, and 2P98
- one and one-half credits from COMM 2P15, FREN 2P57, LING 2P94, 2P95, 2P96, 2P99, SPAN 2P90
- one elective credit (see program note 1)

*Year 3*

- LING 3P92, 3P93, 3P94, 3P95 and 3P96
- one credit from LING 3P51, 3P98, 3P99, 3Q91, 3V80-3V99
- one and one-half elective credits

(COMM 3P88 and FREN 3P05 recommended)

*Year 4*

- One LING credit
- one LING credit numbered 2(alpha)90 or above
- two credits from COMM 4P50 or LING courses numbered 4(alpha)00 to 4(alpha)99
- one elective credit

**Teaching English as a Second Language stream (honours only)**

This stream is recognized by TESL Ontario for professional accreditation as an adult non-credit ESL instructor in Ontario.

*Year 1*

- LING 1F94
- one Science context credit
- one Social Science context credit
- two elective credits (see program note 1)

*Year 2*

- LING 2P50, 2P53, 2P61, 2P62, 2P98, and 2P99
- two elective credits (see program note 1)

*Year 3*

- LING 3P92, 3P94, 3Q91, and 3Q92
- one credit from LING 3P51, 3P93, 3P95, 3P96, 3V80-3V99
- two elective credits

*Year 4*

- LING 4P40, 4P41, 4P80, 4P82, 4P83 and 4P84
- two elective credits (LING 4P50 strongly recommended)

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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 Programs**

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Students proceeding towards a BA or BA (honours) in one of these streams may complete a combined major in conjunction with one other Humanities, Social Science or Science department/centre.

**Honours**

*Year 1*

- LING 1F91 and 1F94
- one credit from the co-major discipline
- two elective credits (see program note 1)

*Year 2*

- LING 2P50 and 2P61
- one credit from LING 2P53, 2P62, 2P93, 2P94, 2P95, 2P96, 2P97, 2P98, 2P99
- two credits from the co-major discipline
- one elective credit (see program note 1)

*Year 3*

- Two credits from LING 3P51, 3P92, 3P93, 3P94, 3P95, 3P96, 3P98, 3P99, 3Q91 and 3Q92
- two credits from the co-major discipline
- one elective credit

*Year 4*

- Two credits from LING 4P20, 4P21, 4P30, 4P40, 4P41, 4P50, 4P60
- 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.

**Linguistics and Child and Youth Studies**

**Honours**

*Year 1*

- LING 1F91 and 1F94
- CHYS 1F90
- PSYC 1F90
- SOCI 1F90

*Year 2*

- LING 2P50 and 2P98
- CHYS 2F10, 2P35 and 2P38
- MATH 1F92 or PSYC 2F23 (preferred)
- one Science context credit (BIOL 1F25 preferred)

*Year 3*

- LING 2P96, 2P97, 3P98 and 3P99
- CHYS 3P10 and 3P15
- one of CHYS 3P11, 3P25, 3P65
- one of CHYS 3P20, 3P23, 3P35, 3P38, 3P90, 3P92, 3P94, 3P96, 3Q93, 3Q94
- one humanities context credit

*Year 4*

- LING 4P20, 4P21, 4P30, 4P41
- CHYS 4F97
- one-half credit from CHYS 3P90, 3P91, 3P92, 3P94, 3P96, 3P97, 3P98, 3P99, 3Q90, 3Q91, 3Q93, 3Q94, 3V92-3V93, 4P31, 4P32
- one of CHYS 4P35, 4P38, 4P65
- one 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 Undergraduate Co-ordinator, Applied Language Studies or the Co-ordinator, Child and Youth Studies.

**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 2P50, 2P53, 2P61 and 2P62
- two ENGL credits (see program note 2)
- one elective credit

*Year 3*

- LING 3P92, 3P93, 3P94 and 3P95
- ENGL 3F91 or 3F92
- one ENGL credit (see program note 2)
- one elective credit

*Year 4*

- LING 4P50
- one and one-half LING credits numbered 2(*alpha*)90 or above (LING 4P60 strongly recommended)
- two ENGL credits (see program note 2)
- one elective credit

**Pass**

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

**Certificate in Teaching English as a Second Language**

The Department of Applied Language Studies offers a Certificate in Teaching English as a Second/Foreign Language (TESL/TEFL) for those who already possess an undergraduate degree. The program consists of five credits and introduces students to a wide range of practical and theoretical issues related to the teaching of English as a second 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 at least five credits in LING with an overall average of 60 percent.

- LING 1F94, 3Q91, 3Q92, 4P40, 4P80, 4P82, 4P83 and 4P84
- one of LING 2P50, 2P61, 3P92, 3P93, 3P94, 3P95, 4P41, 4P50

**Master of Education (MEd) with a Specialization in Teaching English as a Second Language**

Applied Language Studies, in collaboration with the Graduate Department of the Faculty of Education, offers courses leading to the MEd degree - Curriculum Studies (with specialization in TESL). Please refer to the Graduate Calendar for details. For further information, please contact the Co-ordinator, Master of Education with a Specialization in TESL.

# Biochemistry

*This program is co-ordinated by the Department of Biological Sciences and Chemistry.*

## Co-ordinators

Alan J. Castle, Department of Biological Sciences

Mary Frances Richardson, 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>

At Brock, Biochemistry courses were developed originally by the Department of Biological Sciences and are now offered by that department and by the Department of Chemistry.

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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., PHYS 1F25 or 1F90 rather than PHYS 1F20.

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. CHEM 4P27, together with CHEM 4P40, may be used to satisfy the CHEM credit requirement.

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 or MATH 1P97 and 1P98
- one of PHYS 1F20, 1F25, 1F90 (see program note 1)
- one Humanities context credit or one Social Science context credit

### Year 2

- BIOL 2F01
- one credit from BIOL 2P92, 2P93, 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 credit from BCHM 4P02, 4P03, 4P08, 4P21, 4P67
- one CHEM credit numbered 3(alpha)99 or above (see program note 3)
- 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.



## Biological Sciences

### Chair

Alan J. Castle

### Professors Emeriti

Arthur H. Houston, Ralph D. Morris, Peter Nicholls, R. Peter Rand, Donald J. Ursino

### Professors

Alan W. Bown, Douglas H. Bruce, Vincenzo De Luca, Yousef Haj-Ahmad, Fiona F. Hunter, A. Joffre Mercier, Andrew G. Reynolds

### Associate Professors

Michael Bidochka, Stefan Brudzynski, Robert L. Carlone, Alan J. Castle, J. Cameron Lewis (on leave), Daniel McCarthy, John Middleton, Gary Pickering

### Assistant Professors

Charles Déprés, David Gabriel, Debra L. Inglis, Sandra Peters, Miriam Richards, Adonis Skandalis, Gaynor Spencer, Glen Tattersall, Litsa Tsiani

### Adjunct Professors

Peter Bolli, Margaret Cliff, Peter Fernandez, Ken Giles, Javier Gracia-Garza, Dan Rinker, Lorne W. Stobbs, Ronald E. Subden

### Laboratory Instructors

John Ciolfi, 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://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 offered by the department is de-

signed to provide the student with a broad base in modern biological thought, to fulfil 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) program 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. Students registering for BIOL 1F90 should register in MATH 1P98 for the Fall Term, but should check with the Mathematics department regarding prerequi-

sites. 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., PHYS 1F25 or 1F90 rather than PHYS 1F20.

3. PHYS 1F20 or 1F25 is strongly recommended for students who do not have 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, 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 2F95 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. Students in year 3 are encouraged to take one-half credit from BIOL 2P92, 2P93, 2P96, 2P98 not taken in year 2.

7. 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.

8. 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.

9. PSYC 3F40 and 3P39 are required for students intending to complete an honours thesis in Psychology.

10. All courses numbered 2(*alpha*)00 - 2(*alpha*)99 require a minimum of 3.0 overall credits. All courses numbered 3(*alpha*)00 - 3(*alpha*)99 require a minimum of 8.0 overall credits.

## BIOLOGICAL SCIENCES

11. 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

- BIOL 1F90 (see program note 1)
- CHEM 1F92
- MATH 1P97 and 1P98
- one credit from COSC 1P93, 1P95, 1P96, ERSC 1F95, PHYS 1F20, 1F25, 1F90 (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, 2P93, 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 credits numbered 2(*alpha*)90 or above (see program notes 5, 6 and 7)
- 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

### Environmental Economics

Brock offers an honours BA program in Environmental Economics. Starting in the second year, students choose a secondary component normally in Biological Sci-

ences, Environment or Human Geography. Refer to the Environmental Economics entry for additional information.

### 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 Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent Pass BSc/BEEd program for students interested in teaching mathematics and science at the elementary level to grade 8. After graduation from the BSc/BEEd program, students may proceed to an honours Bachelor of Science degree in Integrated Studies. Refer to the Education-Concurrent BSc/BEEd Program listing for additional information.

### Combined Major Programs

#### Biology and Chemistry

##### Honours

###### Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- one of PHYS 1F20, 1F25, 1F90 (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, 2P93, 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 7)
- 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 8)
- one credit from the Department of Biological Sciences in the areas of biochemistry, biophysics or molecular biology or one half credit from one of those areas plus BCHM 3P02 or BIOL 3P50
- one CHEM credit numbered 2(*alpha*)90 or above
- one elective credit (see program note 10)

##### Pass

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

#### Biology 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)

###### Year 2

- BIOL 2P05 and 2Q04
- one credit from BIOL 2P92, 2P93, 2P96, 2P98
- GEOG 2P11
- one and one-half credits from GEOG 2P04, 2P05, 2P07, 2P09
- 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.

**Biology and Mathematics**

**Honours**

*Year 1*

- BIOL 1F90
- CHEM 1F92
- MATH 1P01, 1P02 and 1P98
- COSC 1P02
- one Humanities context credit or Social Science context credit

*Year 2*

- Two credits from BIOL 2F01, 2P05, 2P92, 2P93, 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 1P40, 3P81 and 3P82
- one-half MATH credit
- one elective credit

*Year 4*

- Two BIOL credits numbered 2(*alpha*)90 or above
- MATH 2F40, 4P81 and 4P82
- one elective credit (see program note 11)

**Pass**

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

**Biology 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, 2P93, 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 2(*alpha*)90 or above which must include either PSYC 3F40 or PSYC 3P30 (see program note 9)
- 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**

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

**Biology and Earth Sciences**

Consult the Earth Sciences entry for a listing of program requirements.

**Biology and Physics**

Consult the Physics entry for a listing of program requirements.

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**Master of Science (MSc) Program**

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The Department of Biological Sciences offers specialized training in a wide variety of research areas leading to the MSc degree. Candidates will normally have an honours BSc or BA degree for admission to the program. A minimum of one year of full-time study and research is required. This must include BIOL 5F90 (MSc thesis) and a minimum course program equivalent to two credits. For details, refer to the Graduate Calendar or contact the Chair of the Department.

# Biotechnology

## Director

Jeffrey K. Atkinson, Department of Chemistry

## Participating Faculty

Jeffrey K. Atkinson (Chemistry), Michael Bidochka (Biological Sciences), Alan W. Bown (Biological Sciences), Ian D. Brindle (Chemistry), Douglas H. Bruce (Biological Sciences), Alfredo Capretta (Chemistry), Robert L. Carlone (Biological Sciences), Alan J. Castle (Biological Sciences), Vince De Luca (Biological Sciences), Heather Gordon (Chemistry), Yousef Haj-Amad (Biological Sciences), H.L. Holland (Chemistry), James McNulty (Chemistry), Adonis 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

### Administrative Assistant

Christine Skorski

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).

Admission to the Biotechnology Co-op program is on the basis of marks, review of personal résumés and employer availability. An interview may be required. The normal requirement is an average of 80 percent or more on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Brock University Co-op Programs office and the Centre for Biotechnology will facilitate admission decisions for Biotechnology.

Students admitted to the Biotechnology Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Biotechnology Co-op program. 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

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

### Year 1

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- one of PHYS 1F20, 1F25, 1F90
- 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, 2P93, 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, 3P42, 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, 4P18, 4P21, 4P57, 4P58, BIOL 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 the program schedule as listed below. Failure to adhere may result in removal from the program.

*Year 1*

- BIOL 1F90
- CHEM 1F92
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- one of PHYS 1F20, 1F25, 1F90
- one Humanities context credit or Social Science context credit

*Year 2*

- BTEC 2P09 and 2P63
- BIOL 2F01
- CHEM 2P20 and 2P21
- SCIE 0N90
- one-half credit from BIOL 2P05, 2P92, 2P93, 2P96, 2P98 (recommended), 2Q04
- one of CHEM 2P12, 2P32, 2P42
- the Humanities context credit or Social Science credit not taken in year 1

*Year 2*

- Spring/Summer Sessions:
- BTEC 0N01

*Year 3*

## Fall Term:

- BTEC 3P09 and 3P50
- BCHM 3P01
- CHEM 3P20
- one of BIOL 3P28, 3P51, CHEM 3P21, 3P40, 3P41, 3P60

## Winter Term:

- BTEC 0N02

## Spring/Summer Sessions:

- BTEC 0N00 (optional)

*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, 3P40, 3P41, 3P60

## Spring/Summer Sessions:

- BTEC 0N04 (optional)

*Year 5*

- BTEC 4F90 and 4F91
- BTEC 3P62 or 3P63 (not taken in year 4)
- one credit from BCHM 4P02, BIOL 4P23, 4P51, 4P53, BTEC 4P06, 4P08, 4P18, 4P21, 4P57, 4P58
- one of BTEC 4P27, 4P67, 4P68

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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.

# Business Administration

## Department of Accounting and Finance

### *Chair*

Donald Cyr, Department of Accounting and Finance

Sandra Felton (as of July 1, 2002)

Eli Levanoni, Department of Management, Marketing and Human Resources

### *Director, Co-operative Programs*

Cindy Dunne

---

## General Information

### *Accounting and Finance*

#### *Administrative Assistant*

Marisa Battista

905-688-5550, extension 3918

Taro Hall 233

<http://www.bus.brocku.ca/>

### *Management, Marketing and Human Resources*

#### *Administrative Assistant*

Jila Boal

905-688-5550, extension 3944

Taro Hall 336

<http://www.bus.brocku.ca/>

The Department of Accounting and Finance and the Department of Management, Marketing and Human Resources offers a four-year, 20 credit program in Business Administration. A subsequent degree is available for students holding an undergraduate degree in another discipline. A five credit minor in Business is open to Brock students pursuing degrees in other Faculties.

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## Bachelor of Business Administration

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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 minimum grade requirement for admission to the Business Administration program is a 70 percent average on six OACs (or equivalent) including at least one Mathematics (calculus or finite preferred) and at least one OAC English. Students with an 80 percent average on six OACs and grade 12 mathematics are encouraged to apply for consideration by the Faculty. The curriculum in Business Administration is offered as a four-year 20-credit program and on a Co-operative work/study basis. On successful completion of the program, the degree of BBA (Honours) or 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 one of the areas of concentration. The requirements for admission are described under each area of concentration below. No student may take more than two of ACTG 4V90-4V99, ENTR 4V90-4V99, FNCE 4V90-4V99, MGMT 4V90-4V99, MKTG 4V90-4V99, OBHR 4V90-4V99. Please consult the Chair of the appropriate Department for details.

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## Business Administration Co-operative (Co-op)

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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.

Admission to the BBA 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 for admission is a minimum 80 percent average on six OACs (or equivalent) including at least one OAC Mathematics (calculus or finite preferred) and at least one OAC English. Students will be required to maintain honours standing (70 percent major average and 60 percent non-major average) in order to continue in the BBA Co-op program. The Faculty of Business BBA Co-op Admissions Committee will make admission decisions. 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).

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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### **BBA**

The eligibility of each student to continue in the Bachelor of Business Administration program will be reviewed following completion of the Fall/Winter Session. Eligibility to continue is based on a minimum 60 percent major average and a minimum 60 percent overall average.

**BBA Co-op**

Eligibility to continue is based on the student's major average and non-major average.

1. A student with a major average of at least 70 percent and a non-major average of at least 60 percent 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.

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**Program Notes**

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1. In the Business Administration programs, MGMT 1P96 is the prerequisite for all BBA, MGMT, MKTG and OBHR courses numbered 2(alpha)00 or above except.

2. 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.

3. There is a one-half credit overload for BBA Co-op students during the Fall Term of year 4.

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.

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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 to the appropriate Department 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 3P22
- ENTR 3P45
- FNCE 3P93
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one elective credit

*Year 4*

- ACTG 2P31, 2P32, 3P11 and 4P40
- MGMT 3P80 and 4P80
- one elective credit
- one 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 2)

*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 2)

*Year 3*

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER
- one elective credit

*Year 4*

- MGMT 3P80 and 4P80
- two credits from ENTR 3P52, 3P93, 3P94, 4P10, 4V20
- one credit from ACTG 4P40, ENTR 4P80, 4(alpha)90 to 4(alpha)99, MGMT 4P98, OBHR 4P63, 4P65
- one elective credit

**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 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 and 3P96
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one elective credit

### Year 4

- FNCE 4P04 and 4P16
- MGMT 3P80 and 4P80
- one and one-half FNCE credits numbered 4(*alpha*)00 or above
- one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one elective credit

### 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 2)

### 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 2)

program note 2)

### 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, MGMT, MKTG, OBHR, OPER

### Year 4

- FNCE 3P96
- MGMT 3P80 and 4P80
- MKTG 3P96
- OBHR 3P97
- one and one-half credits from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one elective credit

### 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 2)

### 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 2)

### Year 3

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97

- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42 and 3P97
- one elective credit

### Year 4

- MGMT 3P80 and 4P80
- OBHR 4P63
- two and one-half OBHR credits numbered 4(*alpha*)00 or above
- one elective credit

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, 3P97, 4P63, 4P66, 4P67, 4P69, 4P96, 4V98.

### 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 2)

### 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 2)

### 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 3P80 and 4P80
- two credits from ECON 3P13, 3P93, FNCE 3P96, 4P05, MGMT 4P82, MKTG 4P33, 4P34, OBHR 4P90
- one credit numbered 3(*alpha*)90 or above from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
- one elective credit or a language credit other than English numbered 1(*alpha*)90 or above

**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 2)

*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 2)

*Year 3*

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24 and 3P96
- OBHR 3P42
- one elective credit

*Year 4*

- MGMT 3P80 and 4P80
- MKTG 4P25 and 4P31
- one and one-half credits from MGMT 4P82, MKTG 4P23, 4P26, 4P27, 4P28,

4P29, 4P33, 4P34, 4P91, 4V90-4V99

- one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER, POLI 4P54
- one elective credit

**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 2)

*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 2)

*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, MGMT, MKTG, OBHR
- one elective credit

Students not in an area of concentration will complete the BBA program as follows:

*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 2)

*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 2)

*Year 3*

- ENTR 3P45
- FNCE 3P93
- ITIS 3P97
- MGMT 3P82 and 3P98
- MKTG 3P24
- OBHR 3P42
- one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER
- one elective credit

*Year 4*

- MGMT 3P80 and 4P80
- one credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER POLI 4P54 numbered 3(*alpha*)90 or above
- two credits from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER POLI 4P54
- one elective credit

**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 2)

## BUSINESS

### 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 2)

### 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 3P22
- ENTR 3P45
- MGMT 3P80 and 3P98
- one-half elective credit (see program note 3)

#### Spring/Summer Sessions:

- ACTG 2P32 and 3P11
- one elective credit

### Year 5

#### Fall Term:

- ACTG 4P40
- MGMT 4P80
- one elective credit numbered 3(alpha)90 or above
- one-half elective credit

#### Winter Term:

- ADMI 0N13

### 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 2)

### 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 2)

### Year 3

- Fall Term:
- ADMI 0N11

### Winter Term:

- ECON 2P23
- ENTR 3P45
- ITIS 3P97
- OPER 2P91

- one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR, OPER

#### Spring/Summer Sessions:

- ADMI 0N12

### Year 4

#### Fall Term:

- MGMT 3P80 and 3P98
- one credit from ACTG 4P40, ENTR 4P80, ENTR 4(alpha)90-4(alpha)99, MGMT 4P98, OBHR 4P63, 4P65
- one elective credit (see program note 3)

#### Winter Term:

- ADMI 0N13

#### Spring/Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

### Year 5

#### Fall Term:

- MGMT 4P80
- two credits from ENTR 3P52, 3P93, 3P94, 4P10, 4V20

### 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 2)

### 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 2)

### 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 3P80 and 3P98
- one elective credit (see program note 3)

#### Winter Term:

- ADMI 0N13

#### Spring/Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

### Year 5

#### Fall Term:

- MGMT 4P80
- one-half credit from ACTG, ENTR, FNCE, 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 2)

*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 2)

*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 3P80 and 3P98
  - one credit from FNCE 3P96, MKTG 3P96, OBHR 3P97 (not taken in year 3)
  - one elective credit (see program note 3)

## Winter Term:

- ADMI 0N13

## Spring Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

*Year 5*

- Fall Term:
- MGMT 4P80
  - two credits from ACTG, ENTR, FNCE, 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 2)

*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 2)

*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 3P80 and 3P98
  - OBHR 4P63
  - one OBHR credit numbered 4(alpha)00 or above
  - one-half elective credit (see program note 3)

## Winter Term:

- ADMI 0N13

## Spring Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

*Year 5*

- Fall Term:
- MGMT 4P80

- 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 2)

*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 2)

*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 3P80 and 3P98
  - one credit numbered 3(alpha)90 or above from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
  - one of ECON 3P13, 3P93, FNCE 3P96, 4P05, MGMT 4P82, MKTG 4P33, 4P34, OBHR 4P90
  - one-half non-business elective (see program note 3)

## Winter Term:

- ADMI 0N13

## BUSINESS

### 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 4P80
- one credit from ECON 3P13, 3P93, FNCE 3P96, 4P05, MGMT 4P82, 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 2)

#### 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 2)

#### 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 3P80 and 3P98
- MKTG 4P25 and 4P31
- one-half credit from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR,

### OPER, POLI 4P54

- one-half elective credit (see program note 3)

#### Winter Term:

- ADMI 0N13

### Spring/Summer Sessions:

- ACTG 2P40
- MGMT 3P82
- one elective credit

### Year 5

#### Fall Term:

- MGMT 4P80
- one and one-half credits from MGMT 4P82, MKTG 4P23, 4P26, 4P27, 4P28, 4P29, 4P33, 4P34, 4P91, 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 2)

#### 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 2)

### 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 Business Administration for Students Holding Other Degrees

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Students holding a university degree in which the major area of concentration is other than Business and with an overall average of at least 70 percent may be admitted and receive a maximum 10 unspecified credits towards the BBA degree at Brock. Students without advanced standing will be required to complete the program of study listed below.

Students who are granted credit in any of the courses listed below must complete a program consisting of at least 10 Brock credits that include the core courses below and substitute courses approved by a Faculty of Business academic adviser.

Students normally will enter the program in September. Applications for admission must be received at least two months before entry.

The requirement for graduation with a BBA (honours) is a minimum major average of 70 percent and a minimum non-major average of 60 percent in the remaining credits. The minimum major average for graduation with a BBA is a minimum major average of 60 percent and a minimum overall average of 60 percent.

### Year 1

- ACTG 1P91 and 2P12
- ECON 1P91 and 1P92
- MATH 1P98

- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- one credit from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER

#### *Year 2*

- FNCE 3P93
- MGMT 3P80 and 4P80
- MKTG 3P24
- OBHR 3P42
- two and one-half credits from ACTG, ENTR, FNCE, ITIS, MGMT, MKTG, OBHR, OPER (two of which must be numbered 3(alpha)90 or above)

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### Bachelor of Accounting

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Please consult the Accounting entry in Calendar.

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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
- FNCE 2P51
- MGMT 1P91, 1P92 and 3P81
- MKTG 2P51
- OBHR 2P51
- OPER 2P51

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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 at Brock, the student must complete the following:

- one Humanities context credit
- one Science context credit
- one Social Science context credit
- four credits (one of which may be in business) numbered 2(alpha)00 or above.

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### Combined Honours Programs

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Combined honours programs leading to a Bachelor of Arts (honours) degree are available in Business and Economics 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 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 3325  
Taro Hall 465  
<http://www.brocku.ca/economics/>

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 as well as a Co-op option.

The Business Economics Co-op stream combines 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 economics prior to taking the first work placement. Some employers may wish to extend a student's work placement, in such a case, the student must seek the approval of the Dean and Co-ordinator. While every attempt will be made to build flexibility into the work placement and study sequence, in some instances, extended work placement may not be possible. In addition to the current fees for courses in academic study terms, students are assessed an annual administrative fee (see the Schedule of Fees).

As this is a limited enrolment program, admission is on the basis of marks and a personal interview. The normal requirement is a minimum 80 percent average on six OACs. The Business

Economics Admissions Committee will make decisions.

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.

Computer Literacy is required for many of the upper year courses in this program. Students who are not computer literate should take COSC 1P95, 1P96 or both 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 Programs

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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, 2P31, 2P32, 2P90 and 2P94
- FNCE 2P91

- MKTG 2P91
- one elective credit

##### *Year 3*

- ECON 3P03, 3P04, 3P90, 3P91 and 3P92
- one ECON credit numbered 2(alpha)90 or above
- FNCE 3P93 and 3P96
- one-half 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 credit numbered 4(alpha)00 or above from ACTG, ENTR, FNCE, MGMT, MKTG, OBHR
- one-half 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, 2P31, 2P32, 2P90 and 2P94
- FNCE 2P91
- MKTG 2P91
- one elective credit

##### *Year 3*

- ECON 3P06, 3P16, 3P90, 3P91 and 3P92
- one of ECON 3P13, 3P18, 3P24, 3P93
- one ECON credit numbered 2(alpha)90 or above
- MKTG 3P24
- one-half 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 credit numbered 4(alpha)00 or above

from ACTG, ENTR, FNCE, MGMT,  
MKTG, OBHR  
•one-half elective credit

### Business Economics Co-op

#### *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 0N90, 2P21, 2P22, 2P31, 2P32,  
2P90 and 2P94
- FNCE 2P91
- MKTG 2P91
- one elective credit

#### *Year 3*

Fall Term:

- ECON 3P03 or 3P04
- ECON 3P90, 3P91 and 3P92
- FNCE 3P93
- one-half elective credit

Winter Term:

- ECON 0N01

Spring/Summer Sessions:

- one-half ECON credit numbered  
2(*alpha*)90 or above
- ECON 3P03 or 3P04
- one 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 elective credit

# Canadian Studies

## Director

Jane M. Koustas, Department of Modern Languages, Literatures and Cultures  
TBA (as of July 1, 2002)

## Assistant Professor

Donald Wright (History)

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## General Information

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### Administrative Assistant

Fran Meffe

905-688-5550, extension 4029  
Mackenzie Chown F242  
<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, Economics, English Language and Literature, Fine Arts, Modern Languages, Literatures and Cultures, Geography, History, Political Science and Sociology.

Students take required interdisciplinary Canadian Studies courses along with a number of Canada-centred courses offered by other departments. Emphasis is placed upon the unique nature of the Canadian experience and upon the value and practice of combining disciplinary approaches in the study of culture and society.

The Canadian Studies 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 and a Minor leading to a BA (honours or pass). 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 fulfil 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, 2P97, 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, Canadian Studies 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. For 2002-2003, CANA majors are required to take CANA 3V91 to satisfy the one-half credit in Canadian Cultural Studies I and CANA 3P16 to satisfy the one-half credit in Canadian Cultural Studies II.

9. Students contemplating a thesis or project must consult the Director at the end of year 3.

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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## Honours Program

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### Year 1

- CANA 1F91
- one credit from the co-major discipline
- one Social Science (see program note 4)
- one Science context elective
- one elective credit

### Year 2

- CANA 2F91
- POLI 2F12 or one credit from HIST 2P01, 2P02, 2P97, 2Q90 (see program note 4)
- two credits from the co-major discipline
- one elective credit

### Year 3

- One-half credit from CANA 3V90-3V94
- one-half credit from CANA 3V95-3V99 (see program note 8)
- one credit numbered 2(alpha)90 level or above from the list of approved Canadian Studies courses
- two credits from the co-major discipline
- one elective credit (see program note 9)

### 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 and 2F91
- 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.

ABST 2M90-2M95  
Aboriginal History

ABST 2M96-2M99  
Aboriginal Culture

COMM 3P16  
Mass Media  
(also offered as PCUL 3P16 and SOCI 3P16)

COMM 4P17  
Canadian Cultural and Communications Policy  
(also offered as PCUL 4P17)

COMM 4P55  
Advertising, Mass Media and Culture  
(also offered as HIST 4P55 and PCUL 4P55)

DART 2F97  
Canadian Drama

DART 2P91  
Canadian Radio and Television Drama

ECON 2P09  
Canadian Economic History

ECON 2P94  
Canadian Economic Issues  
(also offered as LABR 2P94)

ECON 2V60-2V69  
Topics in Canadian Economic Policy

ECON 3P19  
Regional Economics

ENGL 2P91  
Canadian Literature to 1920

ENGL 2P92  
Canadian Literature from 1920 to Present

ENGL 4V60-4V69  
Topics in Contemporary Canadian Writing

FILM 2F97  
Canadian Cinema  
(also offered as COMM 2F97)

FILM 2P21  
Canadian Popular Culture  
(also offered as COMM/ PCUL 2P21)

FILM 3P21  
Canadian Television

\*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 to 1939

\*FREN 3P74  
French Canadian Literature from 1939-1960

\*FREN 4P75  
French Canadian Literature after 1960

GEOG 2P03  
Urban Geography

GEOG 2P06  
Cultural and Historical Geography

GEOG 2P91  
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 2P97  
Canada: Social Control or Social Reform

HIST 2Q90  
Canada: A Nation Transformed

HIST 2Q95  
Women in North America  
(also offered as WISE 2Q95)

HIST 3P01  
Canadian Prime Ministers, 1867 to the present

HIST 3P74  
Canada: A Land of Immigrants

## CANADIAN STUDIES

HIST 3P91 North America's First Nations	POLI 3P13 The Politics of Labour (also offered as LABR 3P13)	SOCI 2P22 Education and Society
HIST 3P92 Aspects of Ontario History, 1784-1914	POLI 3P15 Politics in Ontario	SOCI 2P32 The Sociology of Work (also offered as LABR 2P32)
*HIST 3P98 French Canada	*POLI 3P16 Politics in Québec (also offered as CANA 3P16)	SOCI 2P62 The Criminal Justice System
HIST 3Q95 Canadian Labour History (also offered as LABR 3Q95)	POLI 3P17 Politics and the Mass Media in Canada (also offered as COMM/ PCUL 3P17)	SOCI 3P33 Law and Society
ITAL 2P85 Italians in Canada and Italy-Canada Relations	POLI 3P18 Law and Politics	SOCI 3P36 Critical Issues in Contemporary Society
LABR 2F00 Labour Law and Labour Unions	POLI 3P28 Canadian Foreign Policy	SOCI 3P46 Native Peoples and Canadian Society (also offered as ABST 3P46)
LABR 2P34 Trade Unions (also offered as SOCI 2P34)	POLI 3P66 Environmental Policy, Law and Administration	SOCI 3P47 Race and Ethnicity
LING 4P50 Topics in Sociolinguistics	POLI 4P14 Federalism in Canada	SOCI 3P51 Gender and Society (also offered as WISE 3P51)
LING 4P60 Structure and Oral Narrative (also offered as CHYS 4P60)	POLI 4P15 Canadian Political Economy (also offered as LABR 4P15)	SOCI 4P33 Advanced Seminar in Law and Society
MUSI 2P53 History of Music in Canada	POLI 4P19 The Canadian Judicial Process	SOCI 4P41 Advanced Seminar in Social Policy
PEKN 4P50 Social History of Sport and Leisure in Canada	POLI 4P50 Machinery of Government	SOCI 4P70 Social Issues in the Community
POLI 2F12 The Government and Politics of Canada	POLI 4P52 Managing the New Public Organization	VISA 2P50 Canadian Identities: From Nouvelle France to the Group of Seven
POLI 2F98 Canadian Public Administration (also offered as COMM/ LABR 2F98)	POLI 4P54 Business-Government Relations (also offered as LABR 4P54)	VISA 2P51 Themes in 20th-Century Canadian Art
POLI 2P72 Politics and Health	POLI 4V10-4V69 Issues in Canadian Politics	WISE 2P86 Women in the Economy (also offered as ECON/LABR/SOCI 2P86)
POLI 3P05 Canadian Political Thought	POLI 4V60-4V69 Selected Topics in Canadian Public Policy	WISE 2P99 Canada in a Global Context
POLI 3P11 Local Government		*Courses which may be used to fulfil the French/French Canadian requirement.

## Chemistry

### *Chair*

Mary Frances Richardson

### *Professors Emeriti*

Martin S. Gibson, Richard R. Hiatt,  
David C. Moule

### *Professors*

Ian D. Brindle, J. Stephen Hartman,  
Herbert L. Holland, Jack M. Miller,  
Andrew G. Reynolds, Mary Frances  
Richardson, Stuart M. Rothstein

### *Associate Professors*

Jeffrey K. Atkinson, Fred Capretta, James  
McNulty, Art van der Est

### *Assistant Professor*

Heather L. Gordon

### *Research Professor (honorary)*

Mikio Chiba

### *Adjunct Professor*

Klaus Kaiser

### *Senior Demonstrator*

Gail Neff

### *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, as well as the related fields of bio-inorganic and bio-organic chemistry and chemical physics. Research interests of the department include development of sol-gel derived materials for use as catalysts, oxidation of organic molecules by fungi, the chemistry of plant-insect interactions, new chiral ligands for asymmetric catalysis, new approaches in natural product synthesis, molecular spectroscopy, nuclear magnetic resonance spectroscopy, mass spectrometry including organometallic mass spectrometry, quantum chemistry, pesticide and trace element analysis, protein affinity labelling, 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 of the 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).

Admission to the 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 for admission is a minimum 80 percent on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Co-op Programs Office and the Department of Chemistry will facilitate admission decisions.

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. Students admitted to the Chemistry Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Chemistry Co-op program. 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.

## CHEMISTRY

Instrumentation includes 200- and 300-MHz NMR cryospectrometers for solution and high-resolution solids studies. A high resolution double focussing magnetic mass spectrometer interfaced to a data acquisition system allows for acquisition of positive and negative ion spectra with EI, CI and FAB sources. A GC interface and linked scanning add to the suite of capabilities of this instrument. A modern ion trap HPLC/MS/MS spectrometer is available with ESI and APCI sources and full MS/MS scanning. A dedicated HP quadrupole GC/MSD is also available. The research laboratories are all equipped with modern computer-interfaced equipment including liquid and gas chromatography systems for analytical and preparative work, UV/Visible spectrophotometers, FT-IR spectro-photometers, lasers, DCP and ICP spectrometers, AA spectrometers and an autopolarimeter. 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 a 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 and is also a major participant in the Biochemistry, Biotechnology, Environment, and Oenology and Viticulture programs.

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### Program Notes

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1. PHYS 1F90 is preferred; note that professional schools may require an introductory PHYS credit with a lab.

2. The elective credits are normally taken from the Faculty of Mathematics and Science (except ASTR 1F00, BIOL 1F25, ERSC 1F90 and SCIE 1F30).

3. 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.

4. CHEM 3P40 and 3P41 are required for CHEM majors and are highly recommended for combined majors. At least one of these is a prerequisite for most projects in CHEM 4F90 and 4F91 and should be taken in year 3 by students intending to proceed to a year 4 thesis in Chemistry. Combined majors proceeding to research in organic and inorganic chemistry must take CHEM 3P40 while combined majors proceeding to research in analytical, physical, and theoretical chemistry must take CHEM 3P41.

5. Students planning to pursue graduate studies in Chemistry are strongly recommended to take at least two and one-half CHEM credits numbered 3(*alpha*)90 or above covering at least three of the sub-disciplines of physical, inorganic, analytical and organic chemistry, in addition to CHEM 4F90 and 4F91. Chemistry majors planning to pursue graduate studies in biochemistry or biological chemistry are strongly recommended to take CHEM 4P27, 4P67, or 4P68, and two additional year 4 CHEM credits.

6. Students with a minimum 70 percent in OAC 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.

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## Honours Programs

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### Year 1

- CHEM 1F92 (see program note 6)
- one of PHYS 1F20, 1F25, 1F90 (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

- CHEM 4F90 and 4F91
- one credit from CHEM 3P20, 3P21, 3P31, 3P32, 3P51, 3P53 (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 the program schedule as listed below. Failure to adhere may result in removal from the program.

### Year 1

- CHEM 1F92 (see program note 6)
- one of PHYS 1F20, 1F25, 1F90 (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

## Spring/Summer Sessions:

- CHEM 0N00 (optional)

*Year 4*

## Fall Term:

- CHEM 0N03

## Winter Term:

- CHEM 3P21, 3P32, 3P41, 3P53
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2) or one-half elective credit

## Spring/Summer Sessions:

- CHEM 0N04 (optional)

*Year 5*

- CHEM 4F90 and 4F91
- two CHEM credits numbered 3(alpha)90 or above
- two elective credits

**Research-oriented Co-op (honours only)***Year 1*

- CHEM 1F92 (see program note 6)
- one of PHYS 1F20, 1F25, 1F90 (see program note 1)
- MATH 1P01 and 1P02
- one Humanities context credit
- one Social Science context credit

## Spring/Summer Sessions:

- one-half elective credit

*Year 2*

- CHEM 2P12, 2P20, 2P21, 2P32, 2P42 and 2P63
- COSC 1P93
- MATH 2F05 or 2P81 and 2P82
- one of PHYS 2P20, 2P31, 2P50, 2P51
- SCIE 0N90

## Spring/Summer Sessions:

- CHEM 0N01 and CHEM 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

## Spring/Summer Sessions:

- CHEM 0N00 (optional)

*Year 4*

## Fall Term:

- CHEM 0N03 and 3P98

## Winter Term:

- CHEM 3P21, 3P32, 3P41 and 3P53
- one of PHYS 2P20, 2P31, 2P50, 2P51 (not taken in year 2), or one-half elective credit

## Spring/Summer Sessions:

- CHEM 4F90 and 4F91
- one-half elective credit (see program note 7)

*Year 5*

## Fall Term:

- one-half CHEM credit numbered 3(alpha)90 or above
- one elective credit

**BSc with a 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)
- one of PHYS 1F20, 1F25, 1F90 (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 CHEM 3P63 recommended)

**Pass Program**

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

**BSc Honours in Chemistry: Environmental Stream**

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.

## CHEMISTRY

### Year 1

- CHEM 1F92 (see program note 6)
- BIOL 1F90
- ENVI 1P90 and 1P91
- MATH 1P01 and 1P02 or MATH 1P97 and 1P98
- PHYS 1F25 or 1F90

### Year 2

- CHEM 2P12 or 2P63
- CHEM 2P20, 2P21, 2P32 and 2P42
- BIOL 2Q04
- ENVI 1P10
- 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 and 4F91
- ENVI 4P88
- one CHEM credit numbered 3(*alpha*)90 or above
- one and one-half elective credits (CHEM or BIOL recommended)

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## Biochemistry

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Consult the Biochemistry calendar entry for a listing of program requirements.

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## Biotechnology

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Consult the Biotechnology calendar entry for a listing of program requirements.

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## Concurrent BSc/BEEd

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The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent pass BSc/BEEd program for students interested in teaching mathematics or science at the elementary level to grade 8. Consult the

Education-Concurrent BSc/BEEd calendar entry for a listing of course requirements.

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## Combined Major Programs

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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. 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 and 1P12
- one of PHYS 1F20, 1F25, 1F90
- COSC 1P02
- one Humanities context credit or Social Science context credit

##### Year 2

- CHEM 2P12 or 2P63
- CHEM 2P20, 2P32 and 2P42
- MATH 1P40
- one credit from MATH 2F05, 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 and 2P82
- MATH 2P12 and 3P60 or MATH 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
- one credit from MATH 2P12 and 3P60, 3P08 and 3P09 (not taken in year 3)
- 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)
- one of PHYS 1F20, 1F25, 1F90 (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 75 percent overall average in the Chemical

Engineering Technology Program to the honours BSc program in Chemistry. Students receive credit for the first two years of the honours BSc program and can complete the requirements for the honours degree within two years. Many Mohawk transfer students elect to take the pass BSc degree, which can be completed with just five additional credits taken at Brock.

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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 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.

# Child Health

*This program is co-ordinated by the Department of Community Health Sciences*

## *Chair*

John Hay

## *Nursing Clinical Administrator*

Eileen MacRae

## *Director, Co-operative Programs*

Cindy Dunne

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## General Information

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### *Administrative Assistant*

Joanne Falovo

905-688-5550, extension 4228

Shaver Residence Room 300

<http://arnie.pec.brocku.ca/~health/CHSC.html>

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 grade of 60 percent in CHSC 1F90 and one of CHSC 1P99 or COSC 1P95 and have submitted a declaration to major.
2. At least one credit each year must be taken outside the Department of Community Health Sciences.
3. In 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 (only)

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### *Year 1*

- CHSC 1F90
- CHSC 1P99 or COSC 1P95
- CHYS 1F90
- one Humanities context credit (English recommended)
- one Science context credit (Biology 1F90 recommended)
- one-half elective credit

### *Year 2*

- CHSC 2P09, 2P21, 2P50, 2P91 and 2Q07
- CHYS 2F10, 2P35 and 2P38
- one-half elective credit

### *Year 3*

- CHSC 3P50 and 3P80
- CHSC 3Q07 or 3Q17
- one and one-half credits from CHSC 3P26, 3P27, CHYS 3P20, 3P35, 3P38, 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, 4P99, SOCI 4P26
- one credit from CHYS 3P90, 3P93, 3P94, 3P97
- one and one-half elective credits

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## Pass Program

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Students who do not achieve honours standing (minimum 70 percent major average and a minimum 60 percent non-major average) after completion of the first three years may apply for the Community Health pass degree.



## Child and Youth Studies

### *Chair*

Christine Blais  
Dorothy Griffiths (as of July 1, 2002)

### *Professors*

Mohammed Dore, Zopito Marini

### *Associate Professors*

Christine Blais, Dorothy Griffiths, Jane Helleiner, Frances Owen, Teena Willoughby

### *Assistant Professor*

Thomas O'Neill

### *Co-ordinator*

Rosamund Battye

---

## General Information

### *Administrative Assistant*

Carol Penner

905-688-5550, extension 3740

Mackenzie Chown D332

<http://www.brocku.ca/childandyouthstudies/>

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 four-year 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, U/C courses or OACs; Grade 12 U or OAC English is required and 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/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.

Entrance into the BA (honours) Child and Youth Studies requires a minimum major average of 65 percent and department approval. Application forms for the Child and Youth Studies, BA and BA/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. Late applications will not be accepted. 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 June 1, in addition to the University honours application form. Students must apply to complete either a thesis or a project for an honours degree.

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/BEd stream in year 2, they may receive up to one and one-half additional transfer credits. All applicants must take CHYS 1F90.

### 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. It is recommended that Child and Youth Studies majors seek academic advice from the Co-ordinator. See the Child and Youth Studies Handbook for more information.

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## Concurrent CHYS BA/BEd

The Department of Child and Youth Studies and the Faculty of Education cooperate in offering a concurrent BA/BEd program. The Child and Youth Studies BA/BEd program combines the BA pass program with the teacher education program for students interested in teaching at the Primary/Junior level (grades K-6). Refer to the Education-Concurrent BA/BEd Child and Youth Studies program listing for additional information.

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## Program Notes

1. Students wishing to proceed to years 2 and 3 of the BA program must have achieved a minimum of 65 percent in Child and Youth Studies required courses.

## 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 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).

2. All Child and Youth Studies majors are encouraged to choose electives from other departments to broaden their academic experience. If CHYS majors register in more than one-half credit from required CHYS courses as electives, they may be deregistered.

3. Combined CHYS/SOCI majors who change to a single CHYS major will be required to take MATH 1F92 or PSYC 2F23.

4. SOCI 4F90 is restricted to students with a minimum major average of 80 percent.

5. SOCI 4F91 is restricted to students with a minimum major average of 75 percent.

6. CHYS and CHYS BA/BEed majors cannot take PSYC 2F12, 3P18 or 3P93 in fulfillment of their degree requirements.

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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### 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 3P11, 3P25, 3P65
- one of CHYS 3P20, 3P35, 3P90, 3P94, 3P96
- one of CHYS 3P23, 3P38, 3P92, 3Q93, 3Q94
- two and one-half elective credits

#### Year 4

- CHYS 4F97 and one-half elective credit, or CHYS 4F99 and 4P99
- one credit from CHYS 3P90, 3P91, 3P92, 3P93, 3P94, 3P96, 3P97, 3P98, 3P99, 3Q90, 3Q91, 3Q93, 3Q94, 3V92-3V93, 4P31, 4P32, PSYC 4F11
- one of CHYS 4P35, 4P38, 4P65
- 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 Programs

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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 Linguistics

Consult the Applied Language Studies entry for a listing of program requirements.

### Child and Youth Studies and Psychology

#### Honours

Entrance to the CHYS/PSYC combined honours program requires application to the Psychology department and a minimum of 9.0 overall credits.

#### 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
- the Humanities context credit or Science context credit not taken in year 1

#### Year 3

- CHYS 3P10 and 3P15
- one of CHYS 3P11, 3P25, 3P65
- one of CHYS 3P20, 3P23, 3P35, 3P38, 3P90, 3P92, 3P94, 3P96, 3Q93, 3Q94
- PSYC 3P30 and 3P39
- one PSYC credit numbered 2(alpha)90 or above
- one elective credit

#### Year 4

- CHYS 4F97 and one elective credit or CHYS 4F99, 4P99 and one-half elective credit
- one-half credit from CHYS 3P90, 3P91, 3P92, 3P93, 3P94, 3P96, 3P97, 3P98, 3P99, 3Q90, 3Q91, 3Q93, 3Q94, 3V92-3V93, 4P31, 4P32
- PSYC 4P92
- one of CHYS 4P35, 4P38, 4P65
- one and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99

#### 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
- SOC1 1F90
- one Humanities context credit or one Science context credit
- one elective credit

## Year 2

- CHYS 2F10, 2P35 and 2P38
- SOC1 2P11 and 2P13 (see program note 3)
- one SOC1 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
- SOC1 3P00 and 3P01
- one of CHYS 3P11, 3P25, 3P65
- one of CHYS 3P20, 3P23, 3P35, 3P38, 3P90, 3P92, 3P94, 3P96, 3Q93, 3Q94
- one SOC1 credit numbered 2(alpha)90 or above
- one elective credit

## Year 4

Students may select one of three streams:

## 1. CHYS project stream:

- CHYS 4F97 and 4P38
- one-half credit from CHYS 3P90, 3P91, 3P92, 3P93, 3P94, 3P96, 3P97, 3P98, 3P99, 3Q90, 3Q91, 3Q93, 3Q94, 3V92-3V93, 4P31, 4P32, 4P35, 4P65
- SOC1 4F91 or one of SOC1 3P99, 4P10, 4P11, 4P15, 4P16, 4P70 and one-half SOC1 credit numbered 3(alpha)90 or above (see program note 5)
- one SOC1 credit numbered 3(alpha)90 or above
- one elective credit

## 2. CHYS thesis stream:

- CHYS 4F99 and 4P99
- SOC1 4P38
- one-half credit from CHYS 3P90, 3P91, 3P92, 3P93, 3P94, 3P96, 3P97, 3P98, 3P99, 3Q90, 3Q91, 3Q93, 3Q94, 3V92-3V93, 4P31, 4P32, 4P35, 4P65

- one and one-half SOC1 credits numbered 3(alpha)90 or above
- one elective credit

## 3. SOC1 thesis stream:

- CHYS 4P38
- one and one-half credits from CHYS 3P90, 3P91, 3P92, 3P93, 3P94, 3P96, 3P97, 3P98, 3P99, 3Q90, 3Q91, 3Q93, 3Q94, 3V92-3V93, 4P31, 4P32, 4P35, 4P65
- SOC1 4F90 and 4P01
- one-half credit from SOC1 4V90-4V99 (see program note 4)
- 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.

## Classics

### *Chair*

Richard W. Parker

### *Undergraduate Program Adviser*

Michael J. Carter

Carol U. Merriam (as of July 1, 2002)

### *Professors*

Noel D. Robertson, David W. Rupp

### *Associate Professors*

Frederick H. Casler (on leave), Richard W. Parker

### *Assistant Professors*

Michael J. Carter, Carol U. Merriam, Danielle A. Parks

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## General Information

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### *Administrative Assistant*

Leslie Longo-Vicica

905-688-5550, extension 3575

Schmon Tower 1121

<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 and 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 at 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.

A study tour of Rome is offered jointly by Classics and Modern Languages, Literatures and Cultures.

The brochure *Classics at Brock* contains further information about the Classics department and its programs. Students are encouraged to consult the Department Chair to discuss their educational objectives and career plans.

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## Language Requirement for Humanities Majors

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Students majoring in Classics are required to complete one credit in one language other than English to fulfill the Humanities language requirement. 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, as required for a Classics degree, also fulfills the Humanities language requirement.

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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## 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 labeled CLAS, GREE or LATI are required for an honours degree:

- CLAS 2P91, 2P92, 2P98 and 2P99
- 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 Social Science context credit
- one 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 2P91, 2P92, 2P98 and 2P99
- six credits from CLAS 2P30, 2P32, 2P36, 2P38, 2P48, 3P22, 3P23, 3P24, 3P25, 3P26, 3P75 (or 4F75), 4M00-4M09, 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 Social Science context credit
- one Science context credit
- four elective credits

**Classical Studies stream**

Twelve credits labelled CLAS, GREE or LATI are required for an honours degree:

- CLAS 2P91, 2P92, 2P98 and 2P99
- six CLAS, GREE or LATI credits (see program note 2)
- four GREE or LATI credits (see program note 2)
- one Social Science context credit
- one Science context credit
- six elective credits

**Pass Program**

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 and art and archaeology. Pass majors should consult with their departmental 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 2P91, 2P92, 2P98 and 2P99
- two CLAS, GREE or LATI credits (see

program note 2)

- five GREE or LATI credits (see program note 2)
- one Social Science context credit
- one 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 2P91, 2P92, 2P98 and 2P99
- six CLAS, GREE or LATI credits (see program note 2)
- one GREE or LATI credit (see program note 2)
- one Social Science context credit
- one Science context credit
- five elective credits

**Combined Major Program**

A student may combine either an honours or a pass program in Classical Studies with another major field.

The honours program consists of a minimum of seven credits labelled CLAS, GREE or LATI, four of which must be numbered 2(*alpha*)90 or above and of these, two must be numbered 3(*alpha*)90 or above; two must be GREE or LATI.

The pass program consists of a minimum of five credits labelled CLAS, GREE or LATI, two of which must be numbered 2(*alpha*)90 or above; one must be a GREE or LATI credit.

**Minor in Classics**

Students in other disciplines can obtain a minor in 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

- CLAS 3P05 and 3P06
- one credit from CLAS 2P91, 2P92, 2P98, 2P99
- one credit from CLAS 2P40, 2P50, 2P61, 3P00 3P02, 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 2P91, 2P92, 2P98, 2P99
- 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

# Communications, Popular Culture and Film

## *Chair*

Jim Leach

## *Undergraduate Program Adviser*

Russell Johnston

## *Professors*

Barry K. Grant, Jim Leach

## *Associate Professors*

Nicolas Baxter-Moore, Barry W. K. Joe,  
John Lye, Joan Nicks, Jeannette  
Sloniowski, Bohdan Szuchewycz

## *Assistant Professors*

Marian Bredin, Russell Johnston

## *Lecturer*

M. Sharon Broderick

## *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  
Academic North 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 an interdisciplinary program, which studies

human communicative behaviour, the institutions of communication and the social production of meaning. It has four 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 Communications Policy stream focusses on relations between the mass media and cultural industries on the one hand, and political, economic and social forces on the other, including the study of media ownership, cultural regulation and public policies in Canada and elsewhere.

The Information Technology stream integrates the study of communications with the study of theoretical and applied aspects of the new information technology.

The Media and Culture stream is oriented toward an understanding of the role of mass media in the construction of meaning and the creation of national identity in our culture through the study of the cultural, cognitive and textual aspects of film, television, literature and popular culture.

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 program is a sequence of critical and historical courses which 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 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**

Popular Culture is a series of critical and historical courses which examines popular culture and its relation to folk, mass and high culture. Popular Culture is studied in its wide variety of forms (including film, television, literature, music and advertising) and its economic, political and historical contexts.

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 co-ordinated by the Department of Communications, Popular Culture and Film.*

*Chair*  
Jim Leach

*Undergraduate Program Adviser*  
Russell Johnston

*Director, Co-operative Programs*  
Cindy Dunne

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### General Information

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*Administrative Assistant*  
Bridget Cahill

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Academic North 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 is an interdisciplinary program, which studies human communicative behaviour, the institutions of communication and the social production of meaning. It has four 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 Communications Policy stream focusses on relations between the mass media and cultural industries on the one hand, and political, economic and social forces on the other, including the study of media ownership, cultural regulation and public policies in Canada and elsewhere.

The Information Technology stream integrates the study of communications with the study of theoretical and applied aspects of the new information technology.

The Media and Culture stream is oriented toward an understanding of the role of mass media in the construction of meaning and the creation of national identity in our culture through the study of the cultural, cognitive and textual aspects of film, television, literature and popular culture.

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. 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).

Admission to the Communications Studies Co-op program is on the basis of

marks, a review of personal resumes and employer availability. An interview may be required. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Brock University Co-op Programs Office will facilitate admission decisions.

Students admitted to the Communications Studies Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Communications Studies Co-op program. 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.

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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 intending to go on to graduate studies are advised to take COMM 4F99. Students may not register for this course without permission of the Undergraduate Program Adviser who should be consulted before June 30 of the previous year.

## COMMUNICATIONS STUDIES

3. Students in the Information Technology stream are advised to take MATH 1P66 and 1P67 as electives if they wish to take upper year programming and graphics courses in Computer 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.

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### Honours Programs

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#### Business Communications stream

##### Year 1

- COMM 1F90
- FILM 1F94
- MGMT 1P91 and 1P92
- POLI 1F90
- one Science context credit

##### Year 2

- COMM 2F50, 2P15, 2P20 and 2P21
- MKTG 2P51 and 2P52
- OBHR 2P91
- one elective credit

##### Year 3

- COMM 2F98, 3P16, 3P62 and 3P65
- OBHR 3P42
- one COMM credit
- one elective credit

##### Year 4

- One credit from COMM 4P17, 4P30, 4P31, 4P50, 4P51, 4P55, 4V50-4V59
- 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

- COMM 1F90
- ENGL 1F91, 1F95 or FILM 1F94
- MGMT 1P91 and 1P92 or SOCI 1F90
- POLI 1F90
- one Science context credit

##### Year 2

- COMM 2F50, 2P15, 2P20 and 2P21
- POLI 2F12
- one and one-half elective credits

##### Year 3

- COMM 2F98, 3P16, 3P17, 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

#### Information Technology stream

##### Year 1

- COMM 1F90
- COSC 1P02 and 1P03
- ENGL 1F95 or FILM 1F94
- POLI 1F90 or SOCI 1F90
- one Science context credit

##### Year 2

- COMM 2F50, 2P15, 2P20 and 2P21
- COSC 1P95, 1P96 and 2P50
- one elective credit (see program note 3)

##### Year 3

- COMM 2P90, 2P91, 3P16, 3P17, 3P65 and 3P90
- COSC 2P89 and 3P94
- one credit from COMM courses numbered 2(*alpha*)90 or above or SOCI 3P34

##### Year 4

- Two credits from COMM 4F80, 4F99, 4P17, 4P22, 4P23, 4P30, 4P31, 4P50, 4P51, 4P55, 4V50-4V59

- two COMM credits numbered 3(*alpha*)90 or above
- one elective credit

#### Media and Culture stream

##### Year 1

- COMM 1F90
- ENGL 1F91, 1F95, or 1F99
- FILM 1F94
- PSYC 1F90 or SOCI 1F90
- one 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 1F90
- one and one-half elective credits

##### Year 3

- COMM 3P16, 3P17, 3P20 and 3P21
- two COMM credits
- one elective credit

##### Year 4

- Two credits from COMM 4F80, 4F99, 4P17, 4P23, 4P30, 4P31, 4P50, 4P51, 4P55, 4V50-4V59
- two COMM credits numbered 3(*alpha*)90 or above
- one elective credit

#### Communications Studies Co-op (honours only)

Students admitted to the Business Communications Studies Co-op stream must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

#### Business Communications stream

##### Year 1

- COMM 1F90
- FILM 1F94
- MGMT 1P91 and 1P92
- POLI 1F90
- one Science context credit

##### Year 2

- COMM 0N90, 2F50, 2F98, 2P15 and 3P65
- one COMM credit
- MKTG 2P51 and 2P52



## COMMUNICATIONS STUDIES

### Spring/Summer Sessions:

- COMM 0N01

#### *Year 3*

##### Fall Term:

- COMM 3P16
- one-half COMM credit
- one-half COMM credit numbered 3(*alpha*)90 or above
- OBHR 2P91 and 3P42

##### Winter Term:

- COMM 0N02

### Spring/Summer Sessions:

- COMM 2P20 and 2P21
- two elective credits

#### *Year 4*

##### Fall Term:

- COMM 0N03

##### Winter Term:

- one and one-half COMM credits numbered 3(*alpha*)90 or above
- one credit from COMM 4P55, ENTR, MGMT, MKTG, OBHR numbered 3(*alpha*)90 or above

### Spring/Summer Sessions:

- one credit from ENTR, MGMT, MKTG, OBHR numbered 3(*alpha*)90 or above
- one elective credit

### Communications Policy stream

#### *Year 1*

- COMM 1F90 and 2F50
- ENGL 1F91, 1F95 or FILM 1F94
- POLI 1F90
- one Science context credit

### Spring/Summer Sessions:

- COMM 2P20 and 2P21
- two elective credits (MGMT 1P90 and 1P91 strongly recommended)

#### *Year 2*

- COMM 0N90, 2F98 and 2P15
- COMM 3P16 or 3P20
- COMM 3P17 or 3P21
- one COMM credit
- one and one-half elective credits (MKTG 2P51 and 2P52 strongly recommended)

### Spring/Summer Sessions:

- COMM 0N01

#### *Year 3*

##### Fall Term:

- COMM 3P16 or 3P20 (not taken in year 2)
- two COMM credits numbered 3(*alpha*)90 or above

##### Winter Term:

- COMM 0N02

### Spring/Summer Sessions:

- POLI 2F12
- one elective credit

#### *Year 4*

##### Fall Term:

- COMM 0N03

##### Winter Term:

- COMM 3P17 or 3P21 (not taken in year 2)
- two COMM credits numbered 3(*alpha*)90 or above

### Information Technology stream

#### *Year 1*

- COMM 1F90 and 2F50
- COSC 1P02, 1P03, 1P95 and 1P96
- ENGL 1F95 or FILM 1F94

### Spring/Summer Sessions:

- COMM 2P20 and 2P21
- two Social Science context credits
- one elective credit

#### *Year 2*

- COMM 0N90, 2P15, 2P90, 2P91, 3P16, 3P17 and 3P65
- COSC 2P50, 2P89 and 3P94
- one-half COMM credit numbered 2(*alpha*)90 or above or SOCI 3P34

### Spring/Summer Sessions:

- COMM 0N01

#### *Year 3*

##### Fall Term:

- One-half COMM credit numbered 2(*alpha*)90 or above or SOCI 3P34 (if not taken in Year 2)
- two COMM credits numbered 3(*alpha*)90 and above

### Winter Term:

- COMM 0N02

### Spring/Summer Sessions:

- one Science context credit
- one elective credit

#### *Year 4*

##### Fall Term:

- COMM 0N03

##### Winter Term:

- COMM 3P90
- two COMM credits numbered 3(*alpha*)90 or above

### Media and Culture stream

#### *Year 1*

- COMM 1F90 and 2F50
- ENGL 1F91, 1F95 or 1F99
- FILM 1F94
- PSYC 1F90 or SOCI 1F90

### Spring/Summer Sessions:

- COMM 2P20 and 2P21
- two elective credits (MGMT 1P90 and 1P91 strongly recommended)

#### *Year 2*

- COMM 0N90 and 2P15
- COMM 3P16 or 3P20
- COMM 3P17 or 3P21
- two and one-half COMM credits
- one elective credit (MKTG 2P51 and 2P52 strongly recommended)

### Spring/Summer Sessions:

- COMM 0N01

#### *Year 3*

##### Fall Term:

- COMM 3P16 or 3P20 (not taken in year 2)
- one-half COMM credit
- one and one-half COMM credits numbered 3(*alpha*)90 or above

##### Winter Term:

- COMM 0N02

### Spring/Summer Term:

- one Science context credit
- one elective credit

## COMMUNICATIONS STUDIES

### *Year 4*

#### Fall Term:

- COMM 0N03

#### Winter Term:

- COMM 3P17 or 3P21 (not taken in year 2)
- one-half COMM credit
- one and one-half COMM credits numbered 3(alpha)90 or above

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### 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.

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### Combined Major Program

Students may take a combined major in Communications Studies and in a second discipline. For requirements in the other discipline, the student should consult the relevant department. Note that not all departments provide a combined major option.

#### Honours

- COMM 1F90, 2F50, 2P20, 2P21, 3P16, 3P20 and 3P21
- one of COMM 2P90, 3P17, 3P65, 3P93
- one credit from COMM 4P17, 4P23, 4P30, 4P31, 4P50, 4P51 4P55
- two credits from COMM 3P17, 3P65, 3P90, 3P92, 3P93, 4F80, 4F99, 4P17, 4P23, 4P30, 4P31, 4P32, 4P50, 4P51, 4P55

#### Pass

- COMM 1F90, 2F50, 2P20, 2P21, 3P16, 3P20 and 3P21
- one of COMM 2P90, 3P17, 3P65, 3P93

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### Minor in Professional Writing

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With the exception of students in the Co-op streams, it is possible for Communications Policy and Media and Culture stream majors to earn a Minor in Professional Writing. For details see the calendar entry for the Department of English Language and Literature.

## Community Health

*This program is co-ordinated by 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  
Shaver Residence Room 300  
<http://arnie.pec.brocku.ca/~health/CHSC.html>

The BA programs in Community Health Sciences focus 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 postgraduate study in a wide range of health related areas.

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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 CHSC 1F90, and CHSC 1P99 or COSC 1P95 and 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

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#### *Year 1*

- CHSC 1F90
- CHSC 1P99 or COSC 1P95
- one Humanities context credit
- one Science context credit
- one and one-half elective credits

#### *Year 2*

- CHSC 2Q07
- two credits from CHSC 2F95, 2P15, 2P21, 2P40, 2P49, 2P50, 2P51, 2P60, 2P91, 2P94, 2P99
- two and one-half elective credits (see program note 3)

#### *Year 3*

- CHSC 3F20 and 3P50
- CHSC 3Q07 or 3Q17
- one of CHSC 3P26, 3P27, 3P40, 3P59, 3P80, 3P91, 3P92, 3P96, 3P99, 3Q07, 3Q17, 3V50-3V99
- two 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, SOCI 4P26)
- three elective credits (see program note 4)

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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.

# Community Health Sciences

## *Chair*

John Hay

## *Associate Professor*

John Hay, Anthony F. Bogaert, Kelli-an G. Lawrance

## *Assistant Professors*

John Cairney, Brent E. Faught, Brian Jeynes, Heather Lee Kilty, Candace Redden, Ana L. Sanchez, Andréa Toepell, Evangelia L. Tsiani

## *Lecturer*

Melanie MacNeil

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## General Information

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### *Administrative Assistant*

Joanne Falovo

(905) 688-5550, extension 4228

Shaver Residence Room 300

<http://arnie.pec.brocku.ca/~health/CHSC.html>

The Department of Community Health Sciences offers four-year programs of study leading to a BA honours in Child Health, Community Health both a BA honours in Workplace Health, and a Workplace Health Co-op option, a BSc in Health Sciences, a BSc with a Major in Health Sciences and a BA pass degree.

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 in Community Health program focuses on community health and wellness with an emphasis on 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 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 BA honours in Workplace Health prepares students for careers as corporate or workplace health and wellness coordinators. Courses offered through the Faculties of Applied Health Sciences and Business provide a strong background in health, economics and human resource management.

The Workplace Health 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 relevant entries for a listing of courses and program requirements.*

## Computer Science

### *Chair*

Jonathan Radue  
Ivo Düntsch (as of July 1, 2002)

### *Professor*

Ivo Düntsch

### *Associate Professors*

Jerzy Barchanski, David Hughes, Thomas Jenkyns, David McCarthy, Jonathan Radue, Brian Ross, Vladimir Wojcik

### *Assistant Professors*

Sheridan Houghten, Beatrice Ombuki

### *Adjunct Professor*

Jack Miller

### *Instructor*

David Bockus

### *Student Support Co-ordinator*

Gordon Dunkley

### *Mentor*

Bao-ling Bork

### *Director, Co-operative Programs*

Cindy Dunne

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## General Information

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### *Administrative Assistant*

Deborah Shiers

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 a Major in Computer Science, combined BA (honours) and a three year 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 and the Information Technology stream in the Department of Communications, Popular Culture and Film.

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.

Students admitted to the Computer Science Co-op program must follow an approved Co-op pattern. Failure to adhere to the pattern may result in the removal from the Computer Science Co-op program. Eligibility to continue is based on the student's major average and non-

major average. Students will be required to maintain a minimum 70 percent major average and a minimum 60 percent non-major average in order to continue in the Co-op program. If a student subsequently raises his/her major average to 70 percent, the student may be readmitted only if approved by the Computer Science Co-op Admissions Committee.

The Computer Science Co-op program designation will be awarded to those students who have honours standing and have successfully completed a minimum of twelve months Co-op work experience.

### **Internship Option**

The Internship option combines academic and work experience in a five-year program. It is available in Computer Science honours (single or combined), Computing and Business and Computing and Solid-State Device Technology programs. Students complete the normal four-year honours program and an 8-16 month work placement after second or third year. In order to complete the Internship placement, students will be required to submit an acceptable placement report 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 3, respectively). As this is a limited enrolment program admission is not guaranteed by attainment of the minimum requirement. Admission will be based on the achievement (as of January of the application year) and maintenance of a minimum 70 percent major average. Prior to the placement, the student must have completed at least 10, but preferably 15 credits, including COSC 1P12, 2P03, 2P32 and 2P90 and one or more of COSC 2P13, 2P50, 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

## COMPUTER SCIENCE

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, transputers, computer graphics software (Bryce, Poser, SoftImage), and database software (ORACLE, Access).

### Wireless Access

In order to accommodate students who own laptops, the Department has wireless Internet connection available. Suitable PCMCIA cards need to be fitted to the laptop.

### Printer Usage Fees

A non-refundable printer usage fee may be charged for all courses which use departmental or User Services laboratories. Additional 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 students or Computing and Solid-State Device Technology 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 honours and pass degrees. 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, 2P92 and 3P92 within their Computer Science program. One of PHYS 1F20, 1F25 or 1F90 is a prerequisite for PHYS 2P31. Students may also wish to consider the Computing and Solid-state Device Technology program. (See separate calendar entry.)

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## Program Notes

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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 1P91, 1P92, 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. PHYS 1F20 or 1F90 for Chemistry and Earth Sciences.

5. PHYS 2P20, 2P50 and 2P51 are prerequisites for year 3 PHYS courses.

6. 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.

7. 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.

8. 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.

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 Programs

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### Year 1

- COSC 1P02, 1P03 and 1P12 (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, 2P13, 2P32, 2P50 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 1P12 (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, 2P13 and 2P90
  - MATH 1P01 and 1P12
  - SCIE 0N90

## Winter Term:

- COSC 0N01

## Spring/Summer Sessions:

- COSC 2P32 and 2P50
- 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)

## Spring/Summer Sessions:

- COSC 0N04 (optional)

*Year 5*

## Fall Term:

- two COSC credits (see program note 9)
- MATH 4P61

**BSc with a Major Program***Year 1*

- COSC 1P02, 1P03 and 1P12 (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, 2P13, 2P32, 2P50 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)

**Pass Program***Year 1*

- COSC 1P02, 1P03 and 1P12 (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, 2P13, 2P32, 2P50 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)

**Computer Science as a Second Degree Program**

A student holding an honours or pass degree in another discipline may obtain a BSc (honours) in Computer Science, a BSc with a Major in Computer Science or a BSc (pass) degree. Students should refer to the University regulations concerning "Requirements for a Second or Subsequent Degree" section for further information. Previous or transfer credits may be used to satisfy some of the following requirements.

## COMPUTER SCIENCE

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 1P12
- MATH 1P12, 1P66, 1P67 and 1P97

#### Spring/Summer Sessions:

- COSC 2P03

#### Year 2

- COSC 2P13, 2P32, 2P50, 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 a Major

#### Year 1

- COSC 1P02, 1P03 and 1P12
- MATH 1P12 or 1P98
- MATH 1P66, 1P67 and 1P97

#### Spring Term:

- COSC 2P03

#### Year 2

- COSC 2P13, 2P32, 2P50, 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.

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## Combined Major Programs

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The COSC requirements for combined major programs with all other disciplines are outlined below. For specific co-major requirements, consult the co-major department.

### 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 1P12 and 2P03
- one Science credit (see program note 4)
- two credits in the co-major discipline
- one Humanities context credit

#### Year 3

- COSC 2P13, 2P32, 2P50 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 1P12, 2P03, 2P32 and 2P90
- MATH 1P12, 1P40, 2P03 and 2P81
- one Humanities context credit

#### Year 3

- COSC 2P13, 2P50 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)
- one of PHYS 1F20, 1F25, 1F90 (preferred)
- MATH 1P01, 1P02, 1P66 and 1P67
- one Social Science context credit



*Year 2*

- COSC 1P12 and 2P03
- MATH 2F05
- PHYS 2P20, 2P31, 2P50 and 2P51 (see program note 5)
- one Humanities context credit

*Year 3*

- COSC 2P13, 2P32, 2P50 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 4F50, 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 6)

*Year 2*

- COSC 1P12, 2P03, 2P32 and 2P90
- two credits in the co-major discipline
- one Humanities context credit (see program note 6)

*Year 3*

- COSC 2P13, 2P50 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

**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 7)
- one Science context credit

*Year 2*

- COSC 1P12, 2P03, 2P32 and 2P90
- ECON 2P21, 2P22, 2P31 and 2P32
- one Humanities context credit

*Year 3*

- COSC 2P13, 2P50 and 3F00
- ECON 2P90
- one and one-half ECON credits numbered 2(alpha)90 or above
- one elective credit

*Year 4*

- Two COSC credits numbered 3(alpha)90 or above
- ECON 3P90, 3P91, 4P13 and 4P14
- 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 1P12, 2P03, 2P32 and 2P90
- GEOG 2P07 and 2P10
- one credit from GEOG 2P02, 2P03, 2P06
- MATH 1P97 and 1P98

*Year 3*

- COSC 2P13, 2P50 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 8)
- one elective credit

*Year 4*

- Two COSC credits numbered 3(alpha)90 or above (see program note 8)
- 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 1P12, 2P03, 2P32 and 2P90
- GEOG 2P07 and 2P11
- one credit from GEOG 2P04, 2P05, 2P09
- MATH 1P97 and 1P98

*Year 3*

- COSC 2P13, 2P50 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 8)
- one elective credit

*Year 4*

- Two COSC credits numbered 3(alpha)90 or above (see program note 8)
- 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 Programs

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### Concentration in Software Engineering

This concentration does not lead to a professional engineering degree.

## COMPUTER SCIENCE

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

Upon completion of the sequence, the designation "Concentration in Intelligent Systems" will be added to the student's transcript and diploma.

## Computing and Business

*This program is co-ordinated by the Department of Computer Science.*

### *Co-ordinator*

David Hughes, Department of Computer Science

### *Advisers*

Sanjay Putrevu, Faculty of Business  
David Hughes, Department of Computer Science

### *Director, Co-operative Programs*

Cindy Dunne

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## General Information

### *Administrative Assistant*

Deborah Shiers

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.

The program requires a minimum 80 percent admission average on 6 OACs and 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 Computer 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).

Admission to the Computing and Business 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 (with a minimum 75 percent average) and one OAC English. As this is a limited enrolment program admission is not guaranteed by attainment of the minimum requirement. The Computing and Business Co-op Admissions Committee will facilitate admissions decisions. Prospective students with lower grades may be accepted. For additional information, prospective students should contact the department.

Students admitted to the Computing and Business Co-op program must follow an approved Co-op pattern. Failure to adhere to the pattern may result in the removal from the Computing and Business Co-op program. 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

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

### *Year 1*

- COSC 1P02 and 1P03
- ACTG 1P91
- MGMT 1P93 and 1P96
- ECON 1P91 and 1P92
- MATH 1P66, 1P67 and 1P97

### *Year 2*

- COSC 1P12, 2P03 and 2P32
- ACTG 2P12 and 2P40
- MATH 1P98
- one credit from ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91
- one Humanities context credit or one Science context credit

### *Year 3*

- COSC 2P13, 2P50, 2P90 and 3F00
- one credit from ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91 (not taken in year 2)
- one-half COSC or business credit
- the Humanities context credit or Science context credit not taken in year 2

### *Year 4*

- One COSC credit numbered 3(alpha)90 or above
- one and one-half credits from business (see program note 1)

## COMPUTING AND BUSINESS

- one-half COSC or business credit (not taken in year 3)
- two elective credits (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. Failure to adhere to an approved pattern may result in removal from the program.

#### *Year 1*

- COSC 1P02, 1P03 and 1P12
- ACTG 1P91
- ECON 1P91 and 1P92
- MATH 1P66 and 1P67
- MGMT 1P93 and 1P96

#### *Year 2*

Fall Term:

- COSC 2P03 and 2P90
- ACTG 2P12
- MATH 1P98
- SCIE 0N90
- one of ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91

Winter Term:

- COSC 0N01

Spring/Summer Sessions:

- COSC 2P32 and 2P50
- ACTG 2P40
- MATH 1P97
- one of ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91 (not taken in Fall Term)

#### *Year 3*

- COSC 2P13 and 3F00
- one-half COSC credit
- one credit from ENTR 2P51, FNCE 2P91, MKTG 2P91, OBHR 2P91 (not taken in year 2)
- one Humanities context credit
- one Science context credit

Spring/Summer Sessions:

- COSC 0N02

#### *Year 4*

Fall Term:

- COSC 0N03

Winter Term:

- one-half COSC credit numbered 3(alpha)90 or above
- one business credit (see program note 1)
- one elective credit (see program note 1)

Spring/Summer Sessions:

- COSC 0N00 (optional)

#### *Year 5*

Fall Term:

- one half COSC credit numbered 3(alpha)90 or above
- one business credit (see program note 1)
- one elective credit (see program note 1)

# Computing and Solid-State Device Technology

*This program is co-ordinated by 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

---

## General Information

---

### Administrative Assistant

Alice Witvoet

905-688-5550, extension 3412  
Mackenzie Chown B210  
<http://www.brocku.ca/cast>

Computing and Solid-State Device Technology is a unique undergraduate program of studies 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.

The faculty encourages and facilitates students' summer internship placement in relevant industrial positions.

This is an interdisciplinary program with emphasis on the practical aspects of

computing and applications of solid-state device technology. Students who want a deeper theoretical understanding might want to consider a Physics and Computer Science combined major program.

Students are urged to give careful consideration to their choice of program, keeping in mind their areas of interest and capabilities, as well as their long-term career goals. Students should consult a faculty adviser when planning years 3 and 4 of the BSc programs.

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).

Admission to the 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 six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Co-op Programs Office and the Faculty of Mathematics and Science will facilitate admission decisions.

Students admitted to the Computing and Solid-State Device Technology Co-op program must follow the Co-op program. Failure to adhere to the schedule may result in removal from the Computing and Solid-State Device Technology Co-op program. 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 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 2P50 and one of COSC 3P92, 3P93, 3P98, 4P14.
2. COSC 2P13 must be taken in Year 3 or Year 4.
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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## Honours Program

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### Year 1

- PHYS 1F25 or 1F90 (preferred)
- COSC 1P02 and 1P03
- MATH 1P01, 1P02, 1P66 and 1P67
- one Humanities context credit or one Social Science context credit

### Year 2

- PHYS 2P31 and 2P92
- CHEM 1P90
- COSC 1P12, 2P03, and 2P90
- MATH 2F05 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
- COSC 2P32, 2P91, 3F00 and 3P71
- one of COSC 2P13, 3V95, 4P78 (see program note 2)
- MATH 1P12

## COMPUTING AND SOLID-STATE DEVICE TECHNOLOGY

### *Year 4*

- PHYS 3P70, 3P93, 4F90 and 4P92
- one of COSC 2P13 (if not taken in year 3), 3V95, or 4P78 (see program note 2)
- one of PHYS 3P35, 3P36, 3P41
- one and one-half elective credits (see program note 1)

### **Computing and Solid-State Device Technology Co-op**

Students admitted to the Computing and Solid-state Device Technology 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*

- PHYS 1F25 or 1F90
- COSC 1P02, 1P03 and 1P12
- MATH 1P01, 1P02, 1P12, 1P66 and 1P67

### Spring/Summer Sessions:

- one Humanities context credit or Social Science context credit
- one-half elective credit

### *Year 2*

- PHYS 2P31, 2P50, 2P51 and 2P92
- COSC 2P03, 2P13, 2P32 and 2P90
- MATH 2F05 or MATH 2P03 and 2P08
- SCIE 0N90

### Spring/Summer Sessions:

- PHYS 0N01

### *Year 3*

- PHYS 3P35, 3P70 and 3P92
- PHYS 3P36 or 3P41
- COSC 2P91, 3F00 and 3P71
- the Humanities context credit or Social Science context credit not taken in Year 1

### Spring/Summer Sessions:

- PHYS 0N02

### *Year 4*

#### Fall Term:

- PHYS 3P93 and 4P92
- CHEM 1P90
- COSC 3V95 or 4P78
- one-half elective credit

#### Winter Term:

- PHYS 0N03

#### Spring/Summer Sessions:

- PHYS 0N00 (optional)

### *Year 5*

#### Fall Term

COSC 4F90 or PHYS 4F90

# Contemporary Arts

(as of July 1, 2002)

*Director*  
TBA

*Co-operating faculty from:*  
Canadian Studies, Communications,  
Dramatic Arts, Music, Physical  
Education and Kinesiology, Popular  
Culture and Film, 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/finearts/>

Centre for the Study of Contemporary Arts, part of the School of Fine and Performing Arts, is concerned with nature, function and history, 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 the 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 at collaborating effort.

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## Language Requirement for Humanities Majors

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Students in the Centre for the Study of Contemporary Arts 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 fulfil this requirement by year 2.

# Contemporary Cultural Studies

*This program is co-ordinated by the Department of Fine Arts Centre for the Study of Contemporary Arts (as of July 1, 2002)*

*Chair*  
Murray Kropf

*Director*  
TBA (as of July 1, 2002)

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## General Information

*Administrative Assistant*  
Monika Lederich

905-688-5550, extension 3214  
Thistle west 135  
<http://www.brocku.ca/finearts/>

This program is designed for students who wish to gain a critical view of contemporary culture from a number of different perspectives. Students are required to discuss their program with the Department Chair/Director.

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## Language Requirement for Humanities Majors

Students in the Centre for the Study of Contemporary Arts 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 fulfil this requirement by year 2.

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## Program Notes

1. Students preparing for graduate studies are advised to take DART 4F94 or FILM 4F99.

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.

and 3P21 or 3P93, 3P95, 3P96, 3P97 and 3P98, VISA 3P90, 3P91  
•one elective credit

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## Pass Program

Satisfactory completion of the first three years of the honours program entitles students to apply for a pass degree.

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## Honours Program

### Year 1

- DART 1F93 or VISA 1F98
- CANA 1F91 or COMM 1F90
- FILM 1F94
- one language credit (see language requirement)
- one Science context credit or one Social Science context credit

### Year 2

- DART 1F93 or VISA 1F98 (not taken in year 1)
- FILM 2P20 and 2P21
- two credits from CANA 2F91, COMM 2F92, DART 2F97, FILM 2F54, 2F90, 2F97, VISA 2F26, 2P50, 2P51, 3P05, 3P06
- the Science context credit or Social Science context credit not taken in year 1

### Year 3

- FILM 3P20 and 3P21 or FILM 3P97 and 3P98
- two credits from DART 3F93, FILM 2P95, VISA 3P90, 3P91
- one credit from COMM 3F10, DART 2F97, FILM 2F54, 2F97, 3P93, 3P95, 3P96, VISA 2P50, 2P51, 3P05, 3P06
- one elective credit

### Year 4

- DART 4F90 or FILM 4P30 and 4P31
- three credits from COMM 4P50, 4P51, DART 3F93, 4F94, FILM 2P94, 3P20



## Co-operative Programs

*Director*  
Cindy Dunne

*Associate Director*  
Lainie Wagner

*Co-ordinators*  
Valerie Coppard, Kerry Lazerby

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### General Information

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*Administrative Assistant*  
Betty Leveille

*Taro 4<sup>th</sup> Floor,*  
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.

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### What is a Co-op or Internship?

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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 yr)

Applied Environmental Science and Technology  
(BSc Honours, 4.5 yr)

Biotechnology  
(BSc Honours, 4.5 yr)

Business Administration  
(BBA Honours, 4.5 yr)

Business Economics  
(BBE, 4.5 yr)

Chemistry  
(BSc Honours, 5 yr)

Communications, Business Communications  
(BA Honours, 4 yr)

Communications - Information Technology  
(BA Honours, 4 yr)

Communications - Media and Culture  
(BA Honours, 4 yr)

Communications - Communications Policy  
(BA Honours, 4 yr)

Computer Science  
(BSc Honours, 4.5 yr)

Computing and Business  
(BCB Honours, 4 1/2 yr)

Computing and Solid-State Device Technology  
(BSc Honours, 4 1/2 yr)

Dramatic Arts  
Drama in Education, Dramatic Literature, Theatre  
(BA Honours, 5 yr)

Film Studies  
(BA Honours, 4.5 yr)

Neuroscience  
(BSc Honours, 4.5-5 yr)

Oenology and Viticulture  
(BSc Honours, 4.5 yr)

Physics  
BSc Honours, 4.5 yr

## CO-OPERATIVE PROGRAMS

Popular Culture  
(BA Honours, 4 yr)

Psychology  
(BA Honours, 5 yr)

Sport Management  
(BSM Honours, 4.5 yr)

Workplace Health  
(BA Honours, 4.5 yr)

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### Admission to Co-operative Programs

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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): Students applying to the co-op stream normally require an 80% average; some co-op degree programs also require at least one math with a 75%. Applicants must submit a resume for consideration.
- Admission from university year 1 or 2: Students are eligible to apply for admission to the co-op stream with a minimum major average of 70% and a non-major average of 60%, 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.

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### Work Study Sequence

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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.

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### Program continuation

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All co-op students are evaluated according to the academic regulations of their degree program, and continuation in the co-op stream is contingent on maintaining the required academic performance. All co-op stream students must also maintain a minimum major average of 70% and a minimum non-major average of 60%. Students with lower averages may not be permitted to continue in the co-op stream. 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.

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### Graduation requirements

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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 stream 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.

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### Placement of co-op students

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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.

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### Co-op administration fee

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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. Currently co-op students pay an administrative fee of \$500 for each work term. Co-op fees may increase each year.

## Dramatic Arts

*This program is co-ordinated by the Department of Fine Arts Department of Dramatic Arts (as of July 1, 2002)*

### *Chair*

Murray Kropf  
Mary Jane Miller (as of July 1, 2002)

### *Professor*

Mary Jane Miller

### *Associate Professor*

Glenys McQueen-Fuentes

### *Assistant Professors*

Marlene Moser, Gyllian Raby

### *Technical Director*

Adrian Palmieri

### *Wardrobe Co-ordinator*

Margaret Molokach

### *Part Time Instructors:*

Dramatic Literature: Terrance Cox

Theatre: Judith Marquis (*scenic painting*), Ken Garrett (*lighting design*), Peter Feldman (*scene study*) TBA (*makeup and wigs*), TBA (*props*), TBA (*voice*), TBA (*stage management*), TBA (*scenic design*)

Drama in Education: TBA

### *Resident Theatre Company:*

Theatre Beyond Words  
Artistic Committee Members  
Harro Maskow, *Artistic Director*  
Terry Judd, *Co-Artistic Director*  
Robin Patterson, *Artistic Producer*  
Kevin Stewart, *Associate Director*  
P.O. Box 1690  
Niagara-on-the-Lake, ON L0S 1J0  
www.theatrebeyondwords.com

## General Information

### *Administrative Assistant*

Monika Lederich

905-688-5550, extension 3214

*Thistle west 135*

The Department of Dramatic Arts (DART, as of July 1, 2002), 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 leading to a BA honours, a three-year BA pass degree program in Dramatic Arts degree with streams in Drama in Education, Dramatic Literature, and Theatre and a four year (20 credit) BA with a Major in Theatre degree. The Department also offers both a Concentration and Certificate program in Drama in Education 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.

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 five-year period. Students spend two years 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).

Admission to the Co-op program is on the basis of marks, a personal interview, audition and short essay handwritten on site. The normal requirement for admission is a minimum 80 percent

average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Co-op Programs Office and the Department of Dramatic Arts will facilitate admission decisions.

Students admitted to one of the Dramatic Arts Co-op programs must follow the appropriate Co-op program schedule for their degree as outlined below. Failure to adhere to the schedule may result in removal from the Dramatic Arts Co-op program. Eligibility to continue is based on the student's major average and non-major average. A student with a minimum 70 percent major average and a minimum 60 percent non-major average will be permitted to continue. A student with a major average lower than 70 percent will not be permitted to continue in the Dramatic Arts Co-op program.

The Dramatic Arts Co-op program designation will be awarded to those students who have honours standing and who have successfully completed a minimum of twelve months of Co-op work experience.

## Language Requirement for Humanities Majors

Students in the Department of Dramatic Arts are required to complete one credit in a language other than English. Where half credit courses are used to satisfy the requirements, both half credits must be in the same language. It is recommended that students fulfil this requirement by year 2. (Theatre stream students are urged to fulfil this requirement in year 1).

## Program Notes

1. An audition is required prior to enrolment in DART 1F99.
2. Students must satisfy context requirements before year 3.

## DRAMATIC ARTS

3. 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.

4. Course cycling pattern for courses in Dramatic Literature is as follows:

### *Year A:*

DART 2F95, 2F97, 3F93

### *Year B:*

DART 2F98, 3F97

In 2002-2003 students may substitute DART 2V93 and 2V94 for either DART 2F95 or 2F98.

5. Year 3 courses are normally restricted to students with at least three *2(alpha)00* credits or permission of the instructor.

6. Students seeking admission to the honours program must have a minimum 70 percent average in their DART courses. Enrolment in some courses may be restricted due to space limitations.

7. 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.

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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### Drama in Education stream

#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit

- one Social Science context credit
- one language credit (see language requirement)

#### *Years 2, 3 and 4*

- DART 2P01, 3F00 and 4F90
- one of DART 2F04, 2P51 and 2P52, 3F12
- DART 3F93 or 3F97
- three credits from DART 2P02, 3F12, 3P03, 3P04, 3P05, 3P06, 3P07
- two credits from DART 2F95, 2F97 or 2P91, 2F98, 2V93, 2V94
- two credits from DART 2F41, 2P62 and 3P62, 3F50, 3F52, 3F91, 3P42, 3Y43, 3Y44, 3Y45, 3Y46
- one of DART 3F96, 4F56, 4F94, CCST 4F40
- two and a half elective credits

### Dramatic Literature stream

#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### *Years 2, 3 and 4*

- DART 2F97, 3F00, 3F93, 3F97, 4F90 and 4F94
- two credits from DART 2F95, 2F98, 2V93 and 2V94
- one DART credit
- one DART credit numbered *3(alpha)* or above
- five elective credits

### Theatre stream

#### *Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

#### *Years 2, 3 and 4*

- DART 2F41, 2P42, 3F00 and 4F90
- one of DART 2F04, 2P51 and 2P52, 3F12
- two credits from DART 2P62, 3F50, 3F52, 3F91, 3P06 and 3P07, 3P62, 3P42, 3Y43, 3Y44, 3Y45, 3Y46
- three credits from DART 2F95, 2F97 or 2P91, 2F98, 2V93, 2V94, 3F93, 3F97
- one of DART 4F56, 4F94, CCST 4F40
- four and one-half elective credits

### Dramatic Arts Co-op (honours only)

Students admitted to Dramatic Arts Co-op programs must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

### Drama in Education 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 0N90, 2P01, 2P02, 3F00 and 3F12
- DART 2F04 or DART 2P51 and 2P52
- one credit from DART 2F95, 2F97, 2F98, 2P91, 2V93, 2V94

#### Spring/Summer Sessions:

- DART 0N00 (optional)

#### *Year 3*

- DART 3F93 or 3F97
- CCST 4F40
- two credits from DART 3P03, 3P04, 3P05, 3P06, 3P07
- one credit from DART 2F41, 2P62 and 3P62, 3F50, 3F52, 3F91

#### Spring/Summer Sessions:

- DART 0N01

#### *Year 4*

- Fall term:  
•DART 0N02

#### Winter term:

- DART 0N03

#### *Year 5*

- DART 4F90
- DART 4F56 or 4F94
- three elective credits

### 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 0N90 and 3F00
- two of DART 2F95, 2F97, 2F98, 2V93 and 2V94
- one DART credit
- one elective credit

Spring/Summer Sessions:

- DART 0N00 (optional)

*Year 3*

- DART 3F93 or 3F97
- CCST 4F40
- one of DART 2F95, 2F97, 2F98, 2V93 and 2V94 (not taken in year 2)
- two elective credits

Spring/Summer Sessions:

- DART 0N01

*Year 4*

- Fall term:
- DART 0N02

Winter term:

- DART 0N03

*Year 5*

- DART 3F93 or 3F97 (not taken in year 3)
- DART 4F90 and 4F94
- two elective credits

**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 0N90 2F41, 2P42 and 3F00
- one of DART 2F04, 2P51 and 2P52, 3F12
- one of DART 2F95, 2F97, 2F98, 2V93 and 2V94

Spring/Summer Sessions:

- DART 0N00 (optional)

*Year 3*

- DART 3F93 or 3F97
- DART 3P42
- CCST 4F40
- one-half credits from DART 3F50, 3F52, 3F91, 3Y43, 3Y44, 3Y45, 3Y46
- one elective credit

Spring/Summer Sessions:

- DART 0N01

*Year 4*

- Fall term:
- DART 0N02

Winter term:

- DART 0N03

*Year 5*

- DART 4F90
- DART 4F56 or 4F94
- three elective credits

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**BA with a 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, 2P42, 2P51, 2P52 and 3F00
- one and one-half elective credits

*Year 3*

- two credits from DART 2F95, 2F97, 2F98, 3F93, 3F97
- one credit from DART 2P62 and 3P62, 3F12, 3F50, 3F52, 3F91, 3P06 and 3P07, 3P42, 3Y43, 3Y44, 3Y45, 3Y46
- two elective credits

*Year 4*

- DART 3F93 or 3F97
- DART 4F56 or CCST 4F40
- 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 stream**

- DART 1F93 and 1F99
- one language credit (see language requirement)

- one Science context credit
- one Social Science context credit

*Years 2 and 3*

- DART 2P01 and 3F00
- DART 3F52 or 3F91
- one of DART 2F04, 2F41, 2P51 and 2P52, 3F12
- two credits from DART 2F95, 2F97, 2F98, 3F93, 3F97, 2V93 and 2V94
- two credits from DART 2P02, 3F12, 3P03, 3P04, 3P05, 3P06, 3P07
- two and one-half elective credits

**Dramatic Literature stream**

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

*Years 2 and 3*

- DART 3F00
- DART 3F93 or 3F97
- three credits from DART 2F95, 2F97, 2P91, 2F98, 2V93, 2V94
- one DART credit
- four elective credits

**Theatre stream**

*Year 1*

- DART 1F93 and 1F99
- one Science context credit
- one Social Science context credit
- one language credit (see language requirement)

*Years 2 and 3*

- DART 2F41, 2P42 and 3F00
- one of DART 2F04, 2P51 and 2P52, 3F12
- two credits from DART 2F95, 2F97, 2P91, 2F98, 2V93, 2V94, 3F93, 3F97
- one credit from DART 2P62, 3F50, 3F52, 3F91, 3P06, 3P07, 3P42, 3P62, 3Y43, 3Y44, 3Y45, 3Y46
- three and one-half elective credits

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**Combined Major Program**

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Combinations within the Dramatic Arts program and with other academic units will be allowed subject to a coherent plan

## DRAMATIC ARTS

of study approved in advance by the Chair and the relevant academic unit. Please consult the Chair for more information.

### Honours

#### Dramatic Literature stream

- DART 1F93, 1F99, 3F00 and 4F90
- DART 3F93 or 3F97
- three credits from DART 2F95, 2F97 or 2P91, 2F98, 2V93, 2V94, 4F94

#### Theatre stream

- DART 1F93, 1F99, 3F00 and 4F90
- DART 2F41 and 2P42
- one of DART 2F04, 2P51 and 2P52, 3F12
- DART 4F56 or CCST 4F40
- one DART credit numbered 2(*alpha*)00 or above

Note: it is recommended that students take one additional credit from the Dramatic Literature stream before registering in DART 4F90.

#### Dramatic Arts (Dramatic Literature stream) and English Language and Literature

A student pursuing a combined degree must: (i) meet the requirements of each department for a combined major; (ii) take at least seven credits from each department for an honours degree.

### Pass

#### Dramatic Literature stream

- DART 1F93, 1F99 and 3F00
- three credits from DART 2F95, 2F97 or 2P91, 2F98, 2V95, 2V94, 3F93, 3F97

#### Theatre stream

- DART 1F93, 1F99 and 3F00
- DART 2F41 and 2P42
- one credit from DART 2P51, 2P52, 2F04, 3F12, 3P06, 3P07
- one credit from DART 2F95, 2F97 or 2P91, 2F98, 2P62, 2V93, 2V94, 3F50, 3F52, 3F91, 3F93, 3F97, 3P62, 3P42, 3Y43, 3Y44, 3Y45, 3Y46,

#### Dramatic Arts (Dramatic Literature stream) and English Language and Literature

A student reading for a combined degree in English and Drama must: (i) meet the requirements of each department for a combined pass; (ii) five from each department for a pass degree.

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### Certificate in Drama in Education

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The Certificate in Drama in Education would be of particular interest to social workers, drama therapists, psychotherapists, prison counsellors, 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. The DIET certificate will develop 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 at least five credits as set out below with a minimum 60 percent overall average.

- DART 2P01, 2P02, 3F12, 3P04 and 3P07
- two credits from BIOL 1F25, CANA 1F91, MUSI 1F00, PSYC 1F90, RECL 1P90 and 1P91, VISA 1F98

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### Concentration in Drama in Education

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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, 2P02, 3F12, 3F91, 3P03, 3P04, 3P05, 3P06 and 3P07
- ENGL 2P10

## Earth Sciences

### *Chair*

Gregory C. Finn  
Frank Fueten (as of July 1, 2002)

### *Undergraduate Program Adviser*

Richard J. Cheel

### *Professors*

Uwe Brand, Richard J. Cheel, Simon J. Haynes, Wayne T. Jolly, John Menzies, Keith Tinkler

### *Associate Professors*

Gregory C. Finn, Jean-Jacques Flint (on leave), Frank Fueten, Daniel McCarthy, Francine McCarthy

### *Adjunct Professors*

Kent Novakowski, Andy Panko

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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 a Major in Earth Sciences, a BSc with a Major in Environmental Geoscience and a three-year BSc pass degree program.

The four-year BSc honours and BSc with a 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 a Major programs.

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, X-ray diffraction, cathodoluminescence microscopic analysis, atomic absorption spectrometry, halogen analysis, image analysis, digitizer, water quality analysis equipment, fluorometric analysis and stable isotope preparation. These are supported by rock specimen preparation and drafting facilities, dark rooms and cold rooms. Departmental as well as University computing facilities are available. The department shares the facilities of electronic, woodworking and glass blowing shops with other departments.

### **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 Geoscientists). 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. Students are expected to cover some costs of transportation, accommodation and food on full day or weekend trips. Field trip costs, where applicable, are in addition to the regular tuition fees associated with the course.

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## Program Notes

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1. COSC 1P93 recommended to fulfill the APGO requirements.
2. The unspecified science elective credit is to be taken from BIOL, CHEM, COSC, MATH or PHYS (except ASTR 1F90, BIOL 1F25, CHEM 1P00, MATH 1F92 or 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 a Major program into BSc honours program are required to have minimum 70 percent major average and a minimum 60 percent average in the remaining credits.

## EARTH SCIENCES

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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### Honours Program

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#### Earth Sciences

##### Year 1

- ERSC 1F01
- CHEM 1F92
- one of BIOL 1F90, PHYS 1F25 or 1F90
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit (see program note 5)

##### Year 2

- ERSC 2P05, 2P10, 2P12, 2P21, 2P22 and 2P32
- one of BIOL 1F90, PHYS 1F25 or 1F90 (not taken in year 1)
- the Humanities context credit or Social Science context credit not taken in year 1

##### Year 3

- ERSC 3P01, 3P10, 3P21, 3P24, 3P31, and 3P61
- one ERSC credit numbered 2(alpha)00 to 3(alpha)99
- WRIT 2P15
- one-half elective credit (see program note 1)

##### Year 4

- ERSC 3P99
- three and one-half credits from ERSC 3P94, 3P98, 3V80-3V99, 4F91, 4P01, 4P10, 4P16, 4P22, 4P52, 4P61
- one elective credit (see program note 7)

#### Environmental Geoscience

##### Year 1

- ERSC 1F01
- one of BIOL 1F90, PHYS 1F25 or 1F90

- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit (see program note 5)

##### Year 2

- ERSC 2P05, 2P09, 2P10, 2P12, 2P21 and 2P32
- one of BIOL 1F90, PHYS 1F25 or 1F90 (not taken in year 1)
- the Humanities context credit or Social Science context credit not taken in year 1

##### Year 3

- ERSC 3P01, 3P10, 3P24, 3P25 3P31, 3P36, 3P61 and 3Q99
- WRIT 2P15
- one-half elective credit (see program note 1)

##### Year 4

- Four credits from ERSC 3P26, 3P33, 3P85, 3V80-3V99, 4F91, 4P15, 4P26, 4P28, 4P31, 4P61, 4P80
- one elective credit (see program note 7)

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### BSc with a 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
- CHEM 1F92
- one of BIOL 1F90, PHYS 1F25 or 1F90
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit

##### Year 2

- ERSC 2P05, 2P10, 2P12, 2P21, 2P22 and 2P32
- one of BIOL 1F90, PHYS 1F25 or 1F90 (not taken in year 1)
- the Humanities context credit or Social Science context credit not taken in year 1

##### Year 3

- ERSC 3P01, 3P10, 3P21, 3P24, 3P31 and 3P61
- one ERSC credit numbered 2(alpha)00 to 3(alpha)99
- WRIT 2P15
- one-half elective credit (see program note 1)

##### Year 4

- ERSC 3P99
- three and one-half credits from ERSC 3P94, 3P98, 3V80-3V99, 4P01, 4P10, 4P16, 4P22, 4P52, 4P61
- one elective credit (see program note 7)

#### Environmental Geoscience

##### Year 1

- ERSC 1F01
- one of BIOL 1F90, PHYS 1F25 or 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- one Humanities context credit or one Social Science context credit (see program note 5)

##### Year 2

- ERSC 2P05, 2P09, 2P10, 2P12, 2P21 and 2P32
- one of BIOL 1F90, PHYS 1F25 or 1F90 (not taken in year 1)
- the Humanities context credit or Social Science context credit not taken in year 1

##### Year 3

- ERSC 3P01, 3P10, 3P24, 3P25 3P31, 3P36, 3P61 and 3Q99
- WRIT 2P15
- one-half elective credit (see program note 1)

##### Year 4

- Four credits from ERSC 3P26, 3P33, 3P85, 3V80-3V99, 4P15, 4P26, 4P28, 4P31, 4P61, 4P80
- one elective credit (see program note 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/BEEd

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The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent Pass BSc/BEEd program for students interested in teaching mathematics or science at the elementary level to grade 8. Refer to the Education-Concurrent BSc/BEEd Program listing for additional information.

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## Combined Major Programs

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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. Prospective students should have their programs approved by the two departments concerned and are advised to follow one of the following patterns:

### Earth Sciences and Biology

#### 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 2P10 and 2P32
- two credits from BIOL 2F01, 2P05, 2P92, 2P93, 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 elective credit in BIOL or ERSC (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

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 1F90
- 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
- MATH 1P97 and 1P98
- one Social Science context credit (GEOG 1F90 strongly recommended)
- one Humanities context credit

##### Year 2

- ERSC 2P00, 2P11, 2P12 and 2P21
- one-half ERSC credit numbered 2(alpha)00 to 2(alpha)99
- one and one-half credits from ERSC 2P05, 2P09, GEOG 2P04, 2P07
- one elective credit

##### Year 3

- ERSC 2P10
- GEOG 3P56
- one and one-half ERSC credits numbered 2(alpha)00 to 3(alpha)99
- one and one-half GEOG credits numbered 2(alpha)90 to 3(alpha)99 from groups B and C (see Geography department)
- one Science credit from BIOL, CHEM, COSC, MATH or PHYS (see program note 2)

##### Year 4

- Two ERSC credits numbered 2(alpha)90 or above
- GEOG 4F99
- one GEOG credit numbered 3(alpha)90 or above from group B
- one elective credit (see program note 7)

## EARTH SCIENCES

### 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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### 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 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.

The following are possible foci of this program: Quaternary geology, sedimentology, hydrogeology, fluvial and glacial geomorphology, isotope geochemistry, limnogeology, palynology, paleoecology, paleoclimatology, volcanology, structural geology and ore genesis.

For details, see the Graduate Calendar or consult the Chair of the department.

## Economics

### Chair

Robert W. Dimand

### Professors Emeriti

Maurice F. Perkins, Gabriel Temkin

### Professors

Robert W. Dimand, Mohammed H. Dore, Joseph Kushner, Felice F. Martinello, Isidore J. Masse (on leave), Roberta E. Robb, Lewis A. Soroka

### Associate Professors

Diane P. Dupont, Zisimos Koustas, David R. F. Love, Steven J. Renzetti, William Veloce, Anthony J. Ward

### Assistant Professor

Hasan Imam

### Lecturer

Jean-François Lamarche

---

## General Information

### Administrative Assistant

Karen Phillips

905-688-5550, extension 3325

Taro Hall 465

<http://www.brocku.ca/economics/>

Economics studies how scarce resources are allocated to produce goods and services and the distribution of those goods and services across individuals and different groups in society. The basic theoretical framework is divided into two parts: microeconomic theory, where the focus is on the determination of prices and the allocation of scarce resources among competing uses; and macroeconomic theory, where the focus is on the levels of utilization of resources, especially the levels of employment, unemployment and inflation. The theoretical tools are applied to issues in the labour market, industrial organization, international trade, economic development, urban studies, taxation and government expenditure. 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.

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 1P93 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 take COSC 1P95 or 1P96, or both, as elective credits.

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## Program Notes

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

### 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, 2P31, 2P32, 2P90 and 2P92
- one-half ECON credit
- one and one-half elective credits

### Year 3

- ECON 3P91
- two and one-half ECON credits numbered 2(alpha)90 or above
- two elective credits

### Year 4

- ECON 3P90, 4P13 and 4P14
- one ECON credit numbered 3(alpha)90 or above
- one-half ECON credit
- two elective credits

## International Political Economy (honours only)

Consult International Political Economy entry for a listing of program requirements.

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## Pass Program

### 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, 2P31, 2P32, 2P90 and 2P92
- one-half ECON credit
- one and one-half elective credits

### Year 3

- one ECON credit
- two ECON credits numbered 2(alpha)90 or above
- two elective credits

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## Combined Major Programs

Students may take Economics as part of a combined major. Students should consult the department about other possible programs.

## ECONOMICS

### 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, 2P31, 2P90 and 2P91
- FNCE 2P91
- MKTG 2P91
- OBHR 2P91
- the Humanities context credit or Science context credit not taken in Year 1

#### Year 3

- ECON 2P32, 3P90 and 3P91
- ACTG 2P40
- FNCE 3P93
- MKTG 3P24
- OPER 2P91
- one-half ECON credit
- one elective credit

#### Year 4

- ECON 4P13 and 4P14
- MGMT 3P80 and 3P82
- one and one-half ECON credit 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, 2P31 and 2P32
- GEOG 2P10
- one and one-half credits from GEOG 2P02, 2P03, 2P06, 2P07
- one elective credit

#### Year 3

- ECON 2P90
- GEOG 3P57
- one and one-half ECON credits numbered 2(alpha)90 or above
- one and 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

- ECON 3P90, 3P91, 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 elective credit

#### Pass

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

### Economics and Labour Studies

#### Year 1

- ECON 1P91 and 1P92 (see program note 1)
- LABR 1P91 and 1P92
- 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, 2P31 and 2P32
- LABR 2F00 and 2P15
- one-half LABR credit
- the Humanities context credit or Science context credit not taken in year 1

#### Year 3

- ECON 2P90
- LABR 3F00, 3P24 and 3P25
- one and one-half ECON credits numbered 2(alpha)90 or above
- one elective credit

#### Year 4

- ECON 3P90, 3P91, 4P13 and 4P14
- LABR 4F90 or 4F91
- LABR 4P91
- one half LABR credit
- one elective credit (see program note 2)

#### Pass

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

### Economics and Mathematics (honours)

#### Year 1

- ECON 1P91 and 1P92 (see program note 1)
- MATH 1P01, 1P02 and 1P12
- COSM 1P02
- one Humanities context credit
- one Science context credit

#### Year 2

- ECON 2P21, 2P22, 2P31 and 2P32
- MATH 1P40, 2P03, 2P72, 2P81 and 2P82
- one-half elective credit

#### Year 3

- MATH 2F40, 3P81 and 3P82
- two ECON credits numbered 2(alpha)90 or above
- one elective credit

#### Year 4

- ECON 3P90, 4P13 and 4P14
- MATH 3P72, 4P72, 4P81 and 4P82
- one-half ECON credit numbered 3(alpha)90 or above
- one elective credit

## Education - Aboriginal Studies and Native Teacher Education

*Director*  
Merle Richards

*Co-ordinator*  
Claudine Van Every-Albert

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### General Information

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*Administrative Assistant*  
Leslie Wenzl

905-688-5550, extension 4112  
Welch Hall 126

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.

Three programs are offered to prepare Native elementary school teachers.

Aboriginal candidates in Program A may opt to participate in a group emphasizing Native issues in teaching and culture.

Program B of the Native Teacher Education program is designed to meet the need for Aboriginal teachers. It includes courses that are similar to those in the standard program but adapted to the needs of teachers working in Aboriginal schools, and at least eight weeks of practice teaching. Course work focusses on the Ontario curriculum from Kindergarten to Grade 6, and includes Aboriginal culture and language methods.

Program C of the Native Teacher Education program is open to speakers fluent in an Onkwehonwe language. It prepares teachers to instruct language classes in elementary or secondary schools.

Successful candidates of Program A of the 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. 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.

Successful candidates of Program A of the 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. 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.

Successful candidates of Program B 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 Program C of the Native Teacher Education program leads to certification in Native as a Second Language (NSL). To qualify for the NSL certificate, candidates must complete at least one year of successful teaching after completing the first year of the NSL program.

Those interested in a teaching career in Ontario are advised to refer to the *Ontario College of Teachers Act 1966* and (Regulation 184/97 Teachers Qualifications) with respect to teachable subjects, definitions, basic qualifications and regulations.

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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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#### *Program A*

Candidates must hold an accredited bachelor's degree (see Education-Pre-service Education).

## EDUCATION - ABORIGINAL STUDIES AND NATIVE TEACHER EDUCATION

### *Program B*

Candidates may be admitted to this program with Grade 12 or equivalent.

### *Program C*

Candidates must be fluent in an Onkwehonwe language.

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## Program Requirements

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### *Program A*

- EDUC 8L09, 8P30, 8P33, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38 and 8Y39
- EDUC 8F08 or 8F09
- EDUC 8P06 or 8P07

### *Program B*

- EDUC 8L09, 8P06, 8P08, 8P10, 8P30, 8P33, 8P93, 8P94, 8P96, 8P99, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38 and 8Y39

### *Program C*

- EDUC 8P08, 8P10, 8P11, 8P33, 8P91, 8P93, 8P94, 8P96, 8P97, 8P98, 8P99

# Education - Adult Studies and Distance Learning

*Director*

W. Richard Bond

*Co-ordinators*

John Hodson, Adult Education  
Aboriginal stream  
Sandra Plavinskis, Adult Education

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## General Information

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*Administrative Assistant*

Janie Hodson

905-688-5550, extension 3971  
Welch Hall 8E  
<http://adult.ed.brocku.ca>

The Centre for Adult Studies and Distance Learning offers a B.Ed. in Adult Education and a certificate in Adult Education both of which offer an Aboriginal stream.

Each option is designed to provide an opportunity to enhance the abilities of individuals working with, or aspiring to work with, adult populations to deliver educational services consistent with the needs of the adult in a variety of educational/training contexts.

The Adult Education Aboriginal stream recognizes Aboriginal learning preferences and cultural diversity. This community-based curriculum model relies on qualified local Aboriginal educators for facilitation and Elders for guidance during course and program delivery.

The BEd in Adult Education degree 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 venues across the province, and on-line. For further information contact 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 B.Ed. 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.

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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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### Adult Education Aboriginal stream

•ADED 4F84, 4F85, 4F86, 4F87 and 4F88

### Adult Education

•ADED 4F04, 4F05, 4F06, 4F07 and 4F08

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## Programs B and C

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### Adult Education Aboriginal stream

•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)

### Adult Education

•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)

## EDUCATION - ADULT STUDIES AND DISTANCE LEARNING

- five credits numbered 2(*alpha*)00 or above (see program note 4)

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### Certificate Program

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The Centre for Adult Studies and Distance Learning also offers a Certificate in Adult Education. It provides an overview for interested persons 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 contact the Co-ordinator before beginning the certificate program.

The certificate is awarded upon completion of the five ADED credits listed below, with a minimum 60 percent overall average.

#### Adult Education Aboriginal stream

- ADED 4F84, 4F85, 4F86, 4F87 and 4F88

#### Adult Education

- ADED 4F04, 4F05, 4F06, 4F07 and 4F08



## Education - Continuing Studies

*Director*

Donald H. Dworet

---

### General Information

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*Administrative Assistant*

Marie McCallum

905-688-5550, extension 3342

Education Room 124

<http://www.ed.brocku.ca/Departments/conti.html>

The Centre for Continuing Studies 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. 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 open to educators wishing to further their professional education beyond the 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 Continuing Studies Program 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 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 Studies 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 Studies.

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 Continuing Studies Program in the Faculty of Education. 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 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

## CENTRE FOR CONTINUING STUDIES

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 Studies 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 Studies.

# Education - Graduate and Undergraduate Studies in Education

*Chair*

Rosemary E. Young

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## General Information

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*Administrative Assistant*

Lynn Duhaime

905-688-5550, extension 3340

Welch Hall 127

<http://www.ed.brocku.ca/Departments/grad/>

### Graduate programs

The Faculty of Education offers a Master of Education degree in Curriculum Studies; Studies in Teaching and Learning; Organizational and Administrative Studies; and Integrated Studies. For further information and course listings, refer to the Graduate Calendar or contact the Office of the Registrar.

### 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, 2F00, 2F01, 3F01, 3P40, 3P50, 3P52, 3P60, 4P01, 4P02 and 4P03.

## Education - Pre-service Education

### *Chair*

James W. Kerr

### *Professors*

Ralph D. Connelly, Anthony S. Mollica,  
Eric R. Muller, Sybil E. Wilson

### *Associate Professors*

Sharon Abbey, Rodger Beatty, Sheila M.  
Bennett, Joyce Castle, W. L. Roger Crane,  
Donald H. Dworet, Anne Elliott, Lynette  
Fast, James W. Kerr, Merle Richards,  
Ruth L. Scott, Adele Thomas

### *Assistant Professors*

Joe Engemann, Joanne Graham, David  
Hutchison, John Kearns, Debra  
McLauchlan, Susan Sydor

### *Lecturer*

Tony DiPetta

### *Adjunct Professor*

Eugene Luczkiw

### *Co-ordinators*

Raymond Chodzinski (Intermediate/  
Senior Program, Hamilton Campus)  
Roger Crane (Intermediate/Senior  
Program, St. Catharines Campus)  
Lynette Fast (Counselling Groups and  
Practice Teaching)  
Robert Moulton (Technological Studies)  
Maureen Bergart (French Teaching  
Specialization Program)  
Joanne Graham (Hamilton Campus)  
Claudine VanEvery-Albert (Native  
Teacher Education Programs)  
Sybil Wilson (Enterprise Education  
Extended Program)

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## General Information

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preserv/](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/OAC) at the St. Catharines and Hamilton campuses.

Two extensions of the Intermediate/Senior program are offered in partnership with the Institute for Enterprise Education and University of Waterloo.

In addition, the Pre-service Department co-operates with other Departments in offering concurrent programs leading to the conferring of a BA/BEEd, BSc/BEEd or BPhEd/BEEd. An honours BA/BEEd program in French (Intermediate/Senior), an honours BPhEd/BEEd (Primary/Junior), a pass BA/BEEd program in Child and Youth Studies (Primary/Junior), a pass BSc/BEEd program in Science (Junior/Intermediate) and a pass BSc/BEEd program in Mathematics (Junior/Intermediate).

Bachelor of Education programs are field-oriented and are based on an approach unique in Ontario. Much of the orientation to and instruction in professional practice takes place through supervised cohort groups of teacher candidates in schools throughout the Niagara Peninsula and the regions of Hamilton-Wentworth, Halton and Peel. Candidates who are accepted into the BEEd program to teach in secondary schools are assigned to work with specialized subject area tutors from secondary schools.

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.

Three programs are offered to prepare Native elementary school teachers.

Aboriginal candidates in Program A may opt to participate in a group emphasizing Native issues in teaching and culture.

Program B of the Native Teacher Education program is designed to meet the need for Aboriginal teachers. It includes courses that are similar to those in the standard program, but adapted to the needs of teachers working in Aboriginal schools and at least eight weeks of practice teaching. Course work focusses on the Ontario curriculum from Kindergarten to Grade 6, and includes Aboriginal culture and language methods.

Program C of the Native Teacher Education program is open to speakers fluent in an Onkwehonwe language. It prepares teachers to instruct language classes in elementary or secondary schools.

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*. The Handbook is normally mailed along with information from the Office of the Registrar to those who have been offered admission into the Pre-service program.

In addition to the required courses, the Department offers a limited number of optional courses: Outdoor/Environmental Education, Aboriginal Studies, Early Primary Education, Early Secondary Education, Children's Literature, Student Assessment, French as a Second Language, Religion (Roman Catholic) and Religion (non-Roman Catholic). Special topics courses may be added. An additional tuition cost is levied for optional credit courses.

Successful candidates of the Pre-service Primary/Junior, Junior/Intermediate and Intermediate/Senior program will be awarded a BEd, and are normally recommended to the Ontario College of Teachers for membership and to receive their Ontario Certificate of Qualification. 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.

Successful candidates of the Technological 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. 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.. Non-degree candidates will awarded an Ontario Certificate of Qualification and 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 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.

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.

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. 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.

Successful candidates of Program A of the 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. 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..

Successful candidates of Program B 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 Program C 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.

Teacher candidates who have successfully completed all required courses in the program for a BEd and who have obtained a P1 or P2 in EDUC 8L09 (mark range is P1, P2, P3, F) 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.

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 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.

## EDUCATION - PRE-SERVICE

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, on experience as submitted on the Brock Work Experience Profile Form and on acceptable references. 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 in the Registrar's Office 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 September 2003 program. All supporting documentation (a university transcript, Work Experience Profile and two letters of reference) 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.

Candidates who have already completed part of their teacher training elsewhere may be accepted for the BEd on a part-time basis. For regulations and program details, see the Chair.

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).

Candidates admitted to both the Technological Studies and Design and Technology streams must also submit the following before classes begin:

- (a) a full résumé
  - (b) evidence of academic qualifications satisfactory to the University
- All candidates must:
- (a) 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;
  - (b) have a basic level of computer skills.

#### 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 and 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

SCIE 1P10 Principles of Science for Primary and Junior Teachers or other Science context credit

LING 1P95 Fundamentals of English Grammar

GEOG 2P03, 2P06, 2P09 or other one-half Canadian geography credit  
one-half Canadian history credit

Teacher candidates are also encouraged to take arts and physical education courses. Some preference will be given to Primary/Junior candidates with a major in Child and Youth Studies.

#### Junior/Intermediate (Grades 4-10)

Candidates must have at least three credits, averaging 75 percent, in one of the teachable subjects as listed under program components.

#### Intermediate/Senior (Grades 7-12/OAC)

Candidates must have at least five credits, averaging 75 percent, in one teachable area (see Clarification of Teachable Subjects for Business Studies below) 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.

#### Technological Education Intermediate/Senior (Grades 7-12/OAC)

There are two streams in this program.

##### 1. *Design and Technology Stream*

Candidates must hold a degree from a recognized university and proven aptitude. They also must have a definite interest and experience in technology. The degree must include at least three credits in an academic teachable subject.

##### 2a. *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 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 from personnel managers and/or other appropriate persons, on company letterhead and must specify the nature of the work and experience, and years and months of experience. It must be in the subject area or areas in which the teacher candidates 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 subject to an

interview process by which they will be able to demonstrate or prove their competency in a specific technology area.

*2b. Technological Studies Stream Candidates Not Holding a Degree*

Applicants holding a minimum of a diploma from a College of Applied Arts and Technology or equivalent, 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 ineligible to receive the Bachelor of Education degree.

*Enterprise Education Intermediate/Senior (Grades 7-12/OAC)*

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.

*French Teaching Specialization Intermediate/Senior (Grades 7-12/OAC)*

Admission is limited to students enrolled at the University of Waterloo and Brock University with a major in French. For details see the Co-ordinator, French Teaching Specialization.

*Native Teacher Education*

*Program A*

Candidates must hold an accredited bachelor's degree.

*Program B*

Candidates may be admitted to this program with Grade 12 or equivalent.

*Program C*

Candidates must be fluent in an Onkwehonwe language.

*Program components:*

1. Candidates specializing in Grades 4-10 must identify one teachable subject at the Junior/Intermediate level. Depending on the teacher candidates' undergraduate major, Junior/Intermediate certification recommendations will be as follows:

- Dramatic Arts
- English
- Environmental Science
- French (second language)
- Geography
- History
- Mathematics
- Music-Vocal
- Physical and Health Education
- Science-General
- Visual Arts

Candidates specializing in Grades 7-12/OAC must select two teachable subjects (two tutorials in the range EDUC 8P65 - 8P90, 8F76) at the Intermediate/Senior level. Teaching subjects offered are as follows:

- Business Studies Accounting
- Business Studies Data Processing
- Business Studies Marketing and Merchandising
- Business Studies Information Management
- Computer Science
- Dramatic Arts
- English (first language)
- French (second language)
- Geography
- History
- International Languages Italian
- International Languages Spanish
- 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 (instruction of Grades 9 and 10) level and the Advanced (instruction of Grades 11, 12/OAC) level and consist of 40 contact hours. Students are placed in a Basic or Advanced course according to their

## EDUCATION - PRE-SERVICE

technological background and ability. In addition to satisfactorily completing the 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. 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 must 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.)

Clarification of teachable subjects:

(a) For Business Studies (Accounting, Data Processing, Marketing and Merchandising, Information Management), all candidates must provide evidence of having current knowledge of computer applications in business. This can be evidenced on the university transcript, the Work Experience Profile or other supplementary material. To have a first teachable subject, candidates require two credits from the specified subject area and an additional three credits from either the specified or other business studies subject(s). A second teachable subject requires two credits from the specified subject area and a third credit from either that area or other business studies subjects.

(b) For Science - General, Junior/Intermediate, candidates must present a minimum of three credits from biology, chemistry and physics, including two credits in one of the areas and a third credit in one of the remaining areas. For Intermediate/ Senior, as a first teachable subject, the five credits must be from at least two of biology, chemistry and physics. As a second teachable subject, an additional three credits must be from at least two of biology, chemistry and physics.

(c) For History, preference will be given to candidates who have at least one credit in Canadian history.

(d) For French as a Second Language, teacher candidates taking EDUC 8F76 as one of their tutorials must select a second tutorial.

2. Teaching methods designed to meet individual needs of pupils
3. The acts and regulations governing education
4. A review of the curriculum guidelines related to all of the divisions and a study of curriculum development
5. At least 10 weeks of practical experience in schools.
6. At least 4 weeks practicum in a

community or business organization for Enterprise Education teacher candidates.

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## Program Requirements

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Candidates are expected to select one of the following areas of concentration:

- (a) Primary/Junior level (Grades K-6)
- (b) Junior/Intermediate level (Grades 4-10)
- (c) Intermediate/Senior level (Grades 7-12/OAC)
- (d) Intermediate/Senior Technological Education (Grades 7-12/OAC)
- (e) Intermediate/Senior - Enterprise Education (Grades 7-12/OAC)

The program requirements as outlined may be met through the successful completion of a combination of compulsory and optional 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.

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## Program Notes

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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 are taken at the basic (instruction at Grades 9 and 10) level and only one may be taken at the advanced (instruction at Grades 11, 12/OAC where indicated) level, depending on the extent of technological ability as determined by the Program Co-ordinator.



**Primary/Junior**

- EDUC 8L09, 8P30, 8P33, 8Y04, 8Y05, 8Y31, 8Y36, 8Y38 and 8Y39
- EDUC 8F08 or 8F09
- EDUC 8P06 or 8P07

**Junior/Intermediate**

- EDUC 8F08, 8L09, 8P06, 8P20, 8P23, 8Y04, 8Y05, 8Y21, 8Y26, 8Y28 and 8Y29

**Intermediate Senior**

- EDUC 8D10, 8L09, 8P06, 8P70, 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, 8P06, 8P70, 8Y04 and 8Y05
- one credit from EDUC 8R00-8R67 (see program note 2)

**Design and Technology stream**

- EDUC 8D10, 8L09, 8P06, 8P70, 8R98, 8Y04 and 8Y05
- one-half credit from EDUC 8F76, 8P65, 8P66, 8P67, 8P68, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90 (see program 1)

**Enterprise Education Extended Program**

- EDUC 8D10, 8L09, 8P06, 8P61, 8P64, 8P70, 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

*Certificate in Enterprise Education*

- EDUC 6F91, 6F92 and 6F93

**French Teaching Specialization**

- EDUC 8L09, 8F11, 8F76, 8P12, 8P70, 8Y04 and 8Y05
- one-half credit from EDUC 8P65, 8P66, 8P67, 8P68, 8P69, 8P72, 8P73, 8P74, 8P77, 8P80, 8P81, 8P82, 8P83, 8P84, 8P86, 8P87, 8P88, 8P90

# Education - Concurrent BA/BEEd (Child and Youth Studies)

## Director

Christine Blais, Department of Child and Youth Studies  
Dorothy Griffiths (as of July 1, 2002)

## Co-ordinator

Rosamund Battye

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## General Information

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### Administrative Assistant

Carol Penner

905-688-5550, extension 3740

Mackenzie Chown D332

<http://www.brocku.ca/childandyouthstudies/>

The Department of Child and Youth Studies and the Faculty of Education cooperate in offering a concurrent four-year program combining a (pass) BA degree with a BEEd 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 Child and Youth Studies BA/BEEd program are available from the Child and Youth Studies office 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 Child and Youth Studies BA/BEEd program should consult the Child and Youth Studies Co-ordinator regarding program requirements and continuance in the program. For further information about the Child and Youth Studies BA/BEEd program see the *Child and Youth Studies Handbook*.

Because the CHYS BA/BEEd program integrates teacher education courses with academic courses, the student should note that the Pre-service Education courses are credited toward the BEEd while the remaining courses are credited to the BA. For this reason, a student who transfers out of the CHYS BA/BEEd program may not have credit in Pre-service Education courses applied to a BA degree. Students should note that credits for the concurrent Child and Youth Studies BA/BEEd 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. 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.

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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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## Admissions

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Students interested in the Child and Youth Studies BA/BEEd 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 BEEd degree before completing the Child and Youth Studies BA/BEEd program.

Candidates must have completed Grade 12 advanced, OAC courses or, under the new curriculum, university or university/college preparation courses in Canadian geography and 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 courses or equivalents will be accepted: MATH 2P52 Principles of Mathematics for Primary and Junior Teachers; SCIE 1P10 Principles of Science for Primary and Junior Teachers; LING 1P95 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.

*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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## 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 3P11, 3P25, 3P65
- one of CHYS 3P20, 3P35, 3P90, 3P94, 3P96
- one of CHYS 3P23, 3P38, 3P92, 3Q93, 3Q94
- one of EDUC 2F00, 2F01, 3F01
- one-half elective credit (see program note 1)

# Education - Concurrent BA (Honours)/BEd (French Teaching Specialization)

*Co-ordinator*  
Claudine Van Every Albert  
(as of July 1, 2002)

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## General Information

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*Administrative Assistant*  
Lesla Mansfield

905-688-5550, extension 3341  
Welch Hall 126

The Department of Modern Languages, Literatures and Cultures and the Faculty of Education co-operate in offering a concurrent five-year program combining an (honours) BA degree with a BEd for students interested in teaching at the Intermediate/Senior level (grades 7-12/OAC). It will include a year of study in a French-speaking environment as approved by the department.

Students in the program must be registered full-time and follow the prescribed program. Any exceptions must have the approval of the Co-ordinator.

Students in the French Teaching Specialization BA (Honours)/BEd program should consult the French Teaching Specialization Co-ordinator regarding program requirements and continuance in the program.

Because the BA (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 BA. For this reason, a student who transfers out of the BA (Honours)/BEd program may not have credit in Pre-service Education courses applied to a BA degree. Students

should note that credits for the concurrent BA (Honours)/BEd program are not evenly distributed between the years because of the structure of Education courses. Students are responsible to note Calendar and scheduling differences between the Undergraduate and Pre-service departments.

Successful graduates of the French Teaching Specialization program will receive a Bachelor of Arts honours degree in French 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. 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.

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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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## Admissions

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Students applying to the French Teaching Specialization BA/BEd program must have six OAC credits, an overall average of at least 80 percent and completed OAC French, (Core, Français or Immersion) or the Grade 12U French equivalent. 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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## Program Notes

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1. FREN credits should be in language and literature in a French-speaking environment to be chosen in consultation with the department.
2. This will be a teacher placement term. Transportation will be the student's responsibility.
3. Three credits in a second teachable are required for the Intermediate/Senior Pre-Service BEd degree. Consult the Pre-service Education admissions requirements.
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.

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## Honours Program

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8P69, 8P72, 8P73, 8P74, 8P77, 8P80,  
8P81, 8P82, 8P83, 8P84, 8P86, 8P87,  
8P88, 8P90

### *Year 1*

- FREN 1F90
- one Science context credit
- one Social Science context credit
- two elective credits

### Spring/Summer Sessions:

- one elective credit numbered 2(*alpha*)00 to 2(*alpha*)99

### *Year 2*

- FREN 2F00 and 2F03
- one FREN credit numbered 2(*alpha*)00 or above
- two elective credits

### Spring/Summer Sessions:

- one FREN credit numbered 3(*alpha*)00 or above

### *Year 3*

- FREN 4P92
- three FREN credits numbered 2(*alpha*)90 or above
- one-half FREN credit numbered 3(*alpha*)90 or above
- one-half elective credit

### Spring/Summer Sessions:

- one-half elective credit

### *Year 4*

#### Fall Term:

- FREN 4P03
- EDUC 8F76
- one and one-half FREN credits numbered 4(*alpha*)00 or above

#### Winter Term:

- (see program note 2)

#### Spring and Summer Sessions:

- EDUC 8P08
- one elective credit

### *Year 5*

#### Fall Term:

- (see program note 2)

#### Winter Term:

- EDUC 8F11, 8L09, 8P12, 8P70, 8Y04 and 8Y05
- one of EDUC 8P65, 8P66, 8P67, 8P68,

# Education - Concurrent BPhEd(Honours)/ BEd

## Director

Nancy R. Murray, Department of  
Physical Education and Kinesiology

## Co-ordinator

Rosamund Batye

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## General Information

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### Administrative Assistant

Susan Gale-Wolbert

905-688-5550, extension 4358

Physical Education 283

<http://arnie.pec.brocku.ca/~phed/>

The Department of Physical Education and Kinesiology and the Faculty of Education co-operate in offering a concurrent five-year program combining an (honours) BPhEd degree with a 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/BEd program are available from the Physical Education and Kinesiology office from March 15. The forms must be completed and returned to the office by May 15. Late applications may be considered. Students in the BPhEd/BEd program should consult the Director or Co-ordinator regarding program requirements and continuance in the program. Students are strongly recommended to take an emergency First Aid/CPR course.

Because the BPhEd/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/BEd program may not have credit in Pre-service Education courses applied to a BPhEd degree. Students should note that credits for the concurrent BPhEd/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 concurrent BPhEd (Honours)/BEd courses reflect national accreditation standards established by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). The Department of Physical Education and Kinesiology has applied for accreditation by this council. 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. 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.

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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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## 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.

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 12 advanced, OAC courses or, university or university/college preparation courses in Canadian geography and 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 courses or equivalents will be accepted: MATH 2P52 Principles of Mathematics for Primary and Junior Teachers; SCIE 1P10 Principles of Science for Primary and Junior Teachers; LING 1P95 Fundamentals of English Grammar; one-half university Canadian geography credit; one-half university Canadian history credit. Students are also encouraged to take arts courses.

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## Program Notes

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1. Recommended to be taken in Spring or Summer Session, prior to year 5, to avoid conflicts with Education requirements.
2. Unless otherwise indicated, elective credits must be taken outside the Department of Physical Education and Kinesiology.
3. Students must complete the admissions requirements for the Primary/Junior/ Pre-Service BEd degree before completing the BPhEd/BEd program.
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.

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## Honours Program

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### Year 1

- PEKN 1P90 and 1P93
- PEKN 1P99 or COSC 1P95
- one Humanities context credit
- one Science context credit
- one Social Science context credit
- one-half elective credit

### Year 2

- PEKN 2P03, 2P04, 2P05, 2P06, 2P08, 2P09, 2P41 and 2P84
- one of PEKN 2P00, 2P93, 2P94
- EDUC 8Y04 and 8Y05
- one-half elective credit

### Year 3

- PEKN 2P95, 2P97, 3P03 and 3P70
- PEKN 2P44 or 2P92
- CHYS 2F10
- EDUC 8P14
- one elective credit

### Year 4

- PEKN 3P10, 3P32, 3P93, 3P97, 4P31 and 4P32
- EDUC 8Y36 and 8Y39
- one PEKN credit numbered 4(alpha)90 or above
- one-half elective credit

### Year 5

- EDUC 4P02, 8F08, 8L09, 8P30, 8P33, 8Y31 and 8Y38
- one-half elective credit (see program note 1)

# Education - Concurrent BSc/BEEd

## *Director*

Eric Muller, Department of Mathematics

## *Co-ordinator*

Rosamund Battye

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## General Information

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### *Program inquiries*

Sandra Regier

### *Administrative Assistant*

Carol Penner

905-688-5550, extension 4271

Mackenzie Chown D332

<http://www.brocku.ca/bscbed/>

The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent four-year program combining a (pass) BSc degree with a BEEd for students interested in teaching mathematics or science at the elementary level to grade 8.

Students in the BSc/BEEd 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, Physics. For all students, the BSc/BEEd program combines a focus on contemporary science and mathematics with the development and application of pedagogical techniques.

Because the BSc/BEEd program integrates teacher education courses with academic courses, the student should note that the

Pre-service Education courses are credited toward the BEEd while the remaining courses are credited to the BSc. For this reason, a student who transfers out of the BSc/BEEd program will not have credit in Pre-service Education courses applied to a BSc degree. Students should note that credits for the concurrent BSc/BEEd 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 four-year program will receive a Bachelor of Science degree in Integrated Studies and a Bachelor of Education degree. After graduation from the BSc/BEEd 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. 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.

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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 certi-

cate 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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Those applying to the science concentration of the program must have six OAC credits and an overall average of at least 80 percent in two science OAC credits, one mathematics OAC credit (OAC calculus is required for a concentration in Chemistry or Physics and strongly recommended for Biology and Earth Sciences) and one English OAC credit. Those applying to the mathematics concentration must have six OAC credits and an overall average of at least 80 percent in two mathematics OAC credits, including calculus, one science OAC credit and one English OAC credit.

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/BEEd program. The program has a limited enrolment and therefore admission into year 2 is limited.

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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 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.

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### Honours Program

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Students may register for an honours program in Integrated Studies after completing their BSc/BEd with a concentration in Biological Sciences or Mathematics.

BSc/BEd students with a concentration in Chemistry, Earth Science or Physics should consult with those departments regarding an honours degree.

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### Programs for Science BSc/BEd

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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
- CHYS 2F10
- EDUC 8P14
- MATH 1P97
- CHEM 1F92

##### Year 3

- One-half credit from 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
- SCIE 3P91
- PHYS 1F25 or 1F90

##### Year 4

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit (see program note 3)

#### Honours Program

##### 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 1F25 or 1F90

##### Year 3

- Two CHEM credits numbered 3(*al-*

*pha*)00 to 3(*alpha*)99

- EDUC 3F01
- EDUC 8Y26 and 8Y29
- ERSC 1F01
- SCIE 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
- 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
- PHYS 1F25 or 1F90
- SCIE 3P91

##### Year 4

- EDUC 4P01
- EDUC 8F08, 8L09, 8P20, 8P23, 8Y21 and 8Y28
- one elective credit (see program note 3)

#### Physics

##### Year 1

- PHYS 1F90
- 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, 8Y05
- MATH 2F05

## EDUCATION - CONCURRENT BSc/BEd

### Year 3

- Two PHYS credits numbered 3(*alpha*)00 or above
  - BIOL 1F90 or ERSC 1F01
  - EDUC 2F01 or 3F01
  - EDUC 8Y26 and 8Y29
  - SCIE 3P91
- one-half EDUC credit numbered 3(*alpha*)90 or above
  - two elective credits

### 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
- MATH 1P98, 2P90 and 3P90, or MATH 2P71, 2P93 and 3P93 (see program note 4)
- CHYS 2F10
- COSC 1P02
- EDUC 8P14
- one of CHEM 1F92, PHYS 1F25 or 1F90

### Year 3

- MATH 3P12, 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 Program

### Year 5

- Two credits from MATH 2F40, 2P72, 2P81, 2P82, 3P60
- MATH 4P71

# English Language and Literature

## Chair

Marilyn J. Rose  
John Lye (as of July 1, 2002)

## Undergraduate Officer

Marilyn J. Rose

## Professor Emeritus

Michael S. Hornyansky

## Professors

David W. Atkinson, R. Douglas MacDonald (on leave), Kenneth M. McKay (on leave), Marilyn J. Rose, Elizabeth Sauer

## Associate Professors

Brian Crick, John Lye, Ian C. Shaw, Angus A. Somerville, Susan Spearey

## Assistant Professors

Robert John Alexander, Klay Dyer, Mathew Martin, Steven D. Scott, Barbara K. Seeber

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## General Information

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### Administrative Assistant

Marg Bernat

905-688-5550, extension 3469  
Mackenzie Chown A310  
<http://www.brocku.ca/english/>

The English Department administers degrees in English Literature and in English and Professional Writing. The Department of English Language and Literature aims to foster an informed and critical intelligence. To achieve this end our programs require choices from a broad range of historical period courses, as well as from various genre courses and courses in the history of the language, criticism, and critical theory.

The department offers two four-year programs leading to a BA honours in English Language and Literature, a four-year degree with major in English and

Professional Writing, and a three-year program leading to the BA pass degree. 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 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 specific Drama courses as outlined in Program Note 2.

Prerequisites for English students are as follows. Students must have successfully completed one ENGL credit numbered 1(*alpha*)00 to 1(*alpha*)99 before registering in ENGL courses numbered 2(*alpha*)00 to 2(*alpha*)99, or have received permission from the instructor. They must have completed two credits from 2(*alpha*)00 to 2(*alpha*)99 before registering in courses numbered 3(*alpha*)00-3(*alpha*)89, or have received permission from the instructor. Students may register in ENGL courses numbered 3(*alpha*)90 or above after completing one ENGL credit numbered 1(*alpha*)00 to 1(*alpha*)99, and two ENGL credits numbered 2(*alpha*)90 or above, or receiving the permission of the instructor.

English courses are available to students in other disciplines who do not have the prerequisites listed above, by permission of the instructor in each case.

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## Language Requirement for Humanities Majors

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English majors must complete one credit in a language other than English or, in special cases, ENGL 3F92. 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 one of ENGL 3F93 or 4F70.
2. The following Dramatic Arts courses are available for English credit: DART 1F93, 2F95, 2F97, 2F98, 3F93 and 3F97.
3. 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.
4. The department recommends that students take one credit in dramatic literature from ENGL 2F97, 2M90 - 2M99 or DART 3F97.
5. The department advises students in English programs to have their programs reviewed each year by the Undergraduate Officer of the Department of English Language and Literature. Students planning to enter fourth year are required to have their programs approved by the Chair during their third year of studies.
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.

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## Core courses

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Core courses in English reflect historical periods, as follows:

List A: Literature before 1800:  
•ENGL 2F97, 2M90-2M99, 2P21, 2P22, 2P24, 2P25, 2V91, 3P10, 3P22, 3P25, 3P95, 4V00-4V09

## ENGLISH LANGUAGE AND LITERATURE

List B: Literature of the 19th Century:  
•ENGL 2P30, 2P31, 2P61, 2P91, 3P30,  
3P31, 4V30-4V39, 4V70, 4V71

List C: Literature of the 20th Century:  
•ENGL 2F55, 2P51, 2P52, 2P53, 2P62,  
2P92, 3F42, 3P38, 3P39, 3V95, 4V40-  
4V49, 4V60-4V69

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### Honours Program

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Honours English students must complete an array of historical period courses, and are strongly advised to take courses in literary criticism or theory and in the history of the English language. 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, 1F99
- ENGL 3F91 or 3F92
- two ENGL credits from List A (see core courses)
- one ENGL list B credit from ENGL 2P30, 2P31, 3P30, 3P31, 4V30-4V39, 4V70, 4V71
- one additional ENGL credit from List B (see core courses)
- two ENGL credits from List C (see core courses)
- three additional ENGL credits (see program note 6)
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- six elective credits (see program note 6)

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### BA with a Major in English and Professional Writing

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This program combines study in English literature with training in professional writing, and is designed for students planning to seek work in areas which

require demonstrated proficiency in writing for the workplace.

Seven ENGL and four WRIT credits are required for a BA with a Major degree.

- One of ENGL 1F91, ENGL 1F95, 1F99
- one ENGL credit from List A (see core courses)
- one ENGL credit from List B (see core courses)
- one ENGL credit from List C (see core courses)
- three additional ENGL credits (see program note 6)
- four WRIT credits
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- six elective credits (see program note 6)

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### Pass Program

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Seven ENGL credits are required for a pass degree.

- One of ENGL 1F91, 1F95, 1F99
- one ENGL credit from List A (see core courses)
- one ENGL credit from List B (see core courses)
- one ENGL credit from List C (see core courses)
- one additional ENGL credit from List A, List B or List C (see core courses)
- two additional ENGL credits (see program note 6)
- one language credit other than English (see language requirement)
- one Science context credit
- one Social Science context credit
- five elective credits (see program note 6)

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### English Plus

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English Plus 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 Plus program in a second teachable discipline.

Nine ENGL credits are required for an Honours English Plus degree.

- One of ENGL 1F91, ENGL 1F95, 1F99
- ENGL 3F91 or 3F92
- COMM 1F90
- two ENGL credits from List A (see core courses)
- one ENGL List B credit from ENGL 2P30, 2P31, 3P30, 3P31, 4V30-4V39, 4V70, 4V71
- one additional ENGL credit from List B (see core courses)
- two ENGL credits from List C (see core courses)
- one additional ENGL credit (see program note 6)
- 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 6)

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### Combined Major Programs

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#### Honours

- One of ENGL 1F91, ENGL 1F95, 1F99
- ENGL 3F91 or 3F92
- one ENGL credit from List A (see core courses)
- one ENGL credit from List B (see core courses)
- one ENGL credit from List C (see core courses)
- two additional ENGL credits (see program note 6)
- seven credits form 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 (see program note 6)

**Pass**

- One of ENGL 1F91, ENGL 1F95, 1F99
- one ENGL credit from List A (see core courses)
- one ENGL credit from List B (see core courses)
- one ENGL credit from List C (see core courses)
- one additional ENGL credit (see program note 6)
- 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 (see program note 6)

- One of ENGL 1F91, 1F95, 1F99
- 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 of WRIT 1P80 and 1P81, ENGL 1F91, ENGL 1F95, ENGL 1F99
- three WRIT credits numbered 2(*alpha*)00 or above

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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.

The certificate is awarded upon the successful completion of the designated courses with a minimum 70 percent overall average.

- Three credits from WRIT 1P80, 1P81, 2P15, 2P16, 3F05, 3F10, 3P09, 3P12, 3P63, 4F99, 4P98, 4P99
- two credits from COMM 1F90, 2P90, 2P91, LING 3P94, 3P95

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**Minor Programs**


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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:

# Environment

## Director

John Middleton  
Anthony Ward (as of July 1, 2002)

## Professor Emeritus

Robert C. Hoover

## Professor

Mohammed H. Dore

## Associate Professors

David T. Brown, Diane P. Dupont,  
Francine McCarthy, John Middleton,  
Steven J. Renzetti, Anthony J. Ward

## Assistant Professors

Karen L. Krug, Cheryl Teelucksingh

## Co-operating Faculty

Biological Sciences, Chemistry, Earth  
Sciences, Economics, Geography,  
Political Science, and Sociology

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## General Information

### Administrative Assistant

Fran Meffe

905-688-5550, extension 3292

Mackenzie Chown F242

<http://www.brocku.ca/envi>

The Centre for the Environment offers programs in conjunction with seven other departments. It consolidates the former Environmental Sciences and Environmental Policy programs, and coordinates them with Environmental Economics. The Centre provides a core of interdisciplinary 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, as well as 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, Earth Sciences, or Geography. As well the Centre offers a Concentration and Certificate in Environment.

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## Program Notes

1. Due to their primary focus on environmental sciences the following are designated as ENVI Science List courses: ENVI 1P10, 2P04, 2P05, 2P09, 2P61, 2P92, 2P93, 2Q04, 3P01, 3V10-3V15, 4F92.

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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## BSc Honours Program

### 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, 2P20, 2P32 and 2P42
- one-half credit from ENVI Science list (see program note 1)
- PHYS 1F20 or 1F90

#### Year 3

- ENVI 3P02
- one ENVI credit
- one-half credit from ENVI 3V10-3V15, 3V20-3V24, 3V25-3V29, 3V30-3V34
- one CHEM credit
- one credit from CHEM 3P20, 3P30, 3P31, 3P60
- 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
- one-half elective credit

### Physical Geography stream

#### Year 1

- ENVI 1P90 and 1P91
- CHEM 1F92
- GEOG 1F91
- MATH 1P97 and 1P98
- 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
- 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*)90 or above from group B or C (see Geography department calendar entry)
- one elective credit

**Environmental Geoscience**

Consult the Earth Science entry for a listing of program requirements

**Applied Environmental Science and Technology Co-op (honours only)**

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 0N90, 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

*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).

**BSc Pass Program**

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

**BA Honours Program****Human Geography stream***Year 1*

- ENVI 1P90 and 1P91
- GEOG 1F90
- 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 2P02, 2P03, 2P06, 2P07
- one elective credit

*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

## ENVIRONMENT

- 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 elective credit and one-half ENVI 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
- SOC 1F90
- one Humanities context credit
- one Science context credit
- one-half elective credit

#### Year 2

- ENVI 2P28 and 2P91
- SOC 2P11 and 2P13
- one ENVI credit
- one SOC credit
- one elective credit

#### Year 3

- ENVI 3P02
- SOC 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 SOC credit
- one elective credit

#### Year 4

- ENVI 4F90 and 4F91, or SOC 4F90, SOC 4P01 and one-half SOC credit
- SOC 4F91 or one credit from SOC 3P99, 4P10, 4P11, 4P15, 4P16
- one SOC credit
- one-half SOC credit numbered 3(alpha)90 or above
- one-half elective credit

### Environmental Economics (honours only)

Consult Environmental Economics entry for a listing of program requirements.

### BA Pass Program

Satisfactory completion of the first three years of the honours program entitles a student to apply for a pass degree.

### Combined Major Programs

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. The admission requirements are the same as for the degree programs. Prospective students should consult with the Director before beginning the certificate program.

The Certificate is awarded upon completion of the five 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.)

### Concentration in Environment

Students earn a Concentration in Environment by successfully completing the courses listed below together with the requirements for a BSc or BA honours degree.

- ENVI 1P90, 1P91 and 4P88
- one and one-half ENVI or approved credits
- two ENVI or approved credits numbered 2(alpha)00 level or above
- one of BIOL 1F90, ECON 1P91 and 1P92, ERSC 1F90, 1F95, GEOG 1F90, 1F91, POLI 1F90, SOC 1F90

The words "Concentration in Environment" will be added to the student's transcript if the Director approves the program.

### Approved Environment Courses Offered by Other Departments

BIOL 1F90  
Concepts in Biology

BIOL 2P05  
Principles of Population and Behavioural Ecology

BIOL 3P64  
Introductory Insect Biology

BIOL 3P71  
Ontario Universities Field Biology Course



BIOL 3P72 Ontario Universities Field Ecology Course	GEOG 3P83 Geography of Water Resources
BIOL 3P80 Evolution	GEOG 3P84 Themes in Political Geography
BIOL 4P60 Advanced Seminar in Population and Behavioural Ecology	GEOG 3P88 Globalization and Sustainability
BIOL 4P64 Insect Behaviour	MGMT 2P82 Business Ethics (also offered as PHIL 2P82)
ECON 1P91 Principles of Microeconomics	POLI 1F90 Introduction to Political Science
ECON 1P92 Principles of Macroeconomics	POLI 3P11 Local Government
ECON 3P27 The Economics of Natural Resources	POLI 3P33 The State and Economic Life (also offered as LABR 3P33)
ECON 3P28 Environmental Economics	RECL 1P98 Introduction to Tourism (also offered as TOUR 1P98)
ECON 3P97 Cost-Benefit Analysis	RECL 3P18 Tourism Planning and Development (also offered as TOUR 3P18)
ECON 4F28 Advanced Environmental Economics	RECL 3P78 International Tourism (also offered as TOUR 3P78)
ENVI (all courses, including cross lists)	SOCI 1F90 Introduction to Sociology
ERSC 1F90 Geology and the Environment	SOCI 2P73 Globalization, Inequality and New World Disorders
ERSC 3P33 Biodiversity (also offered as GEOG 3P33)	SOCI 2P85 Animals and Human Society
GEOG 1F90 Introduction to Human Geography	TOUR 4F01 Contemporary Issues in Tourism
GEOG 1F91 Principles of Physical Geography	
GEOG 3P53 Community Development and Social Planning	
GEOG 3P74 Geography and Gender (also offered as COMM 3P74 and WISE 3P74)	
GEOG 3P81 Environmental and Developmental Problems in the Third World	

•Any other course approved by the Director.

# Environmental Economics

*This program is co-ordinated by the Centre  
for the Environment*

*Director*

Anthony J. Ward

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## General Information

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*Administrative Assistant*

Fran Meffe

905-688-5550, extension 3292

MacKenzie Chown F242

[http://www.brocku.ca/economics/programs/  
envirecon.html](http://www.brocku.ca/economics/programs/envirecon.html)

The Bachelor of Arts in Environmental Economics is a four-year honours degree designed for students who wish to apply the methods and techniques of economics to environmental issues. The program includes courses in physical geography, which focus on the scientific methods used for obtaining evidence of air, water and ground pollution.

Economics courses provide the foundation for assessing the socio-economic calculations and the institutional aspects affecting environmental policy and regulation. In year one, students choose a secondary but related area of study in Biological Sciences, Environment, Human Geography or any other secondary area of study with the approval of the Director. This cross-disciplinary program is designed for students contemplating a career with government, public interest groups or firms involved in environmental assessment, monitoring and review or the cost-benefit analysis of environmental regulation. A graduate of this program may pursue graduate work in environmental studies, law, public policy or other interdisciplinary studies.

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## Program Notes

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1. Students planning to pursue graduate studies in Economics should include ECON 3P91, 4P13 and 4P14 among their ECON electives.

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*

- ECON 1P91 and 1P92
- GEOG 1F91
- MATH 1P97 and 1P98
- one Humanities context credit
- one credit from the chosen secondary area of study

### *Year 2*

- ENVI 2P09 or 2Q04
- ENVI 2P28
- ECON 2P21, 2P22, 2P31, 2P32 and 2P90
- one of ENVI 2P04, 2P05, GEOG 2P11
- one credit from the chosen secondary area of study

### *Year 3*

- ENVI 3P02
- ECON 3P27, 3P28, 3P90 and 3P97
- GEOG 3P81 (when offered, otherwise ERSC 3P33)
- one-half ECON credit numbered 2(alpha)00 or above
- one-half ECON credit numbered 2(alpha)90 or above
- one credit from the chosen secondary area of study

### *Year 4*

- ECON 4F28
- one ECON credit numbered 2(alpha)90 or above
- one ECON credit numbered 3(alpha)90 or above
- 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:

- BIOL 1F90, 2P05 and 2Q04
- one elective credit

### Human Geography:

- GEOG 1F90
- one credit from GEOG 2P02, 2P03, 2P06, 2P07, 2P10
- one elective credit

### Environment:

- ENVI 1P90 and 1P91
- two ENVI credits numbered 2(alpha)90 or above

## Film Studies

*This program is co-ordinated by the Department of Communications, Popular Culture and Film.*

*Chair*  
Jim Leach

*Undergraduate Program Adviser*  
Russell Johnston

*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  
Academic North 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.

Film Studies is a sequence of critical and historical courses which 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).

Admission to the Film Studies Co-op program is on the basis of marks, a review of personal resumes and employer availability. An interview may be required. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Brock University Co-op Programs Office will facilitate admission decisions.

Students admitted to the Film Studies Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Film Studies Co-op program. 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. FILM 4F99 is strongly recommended for honours students intending to continue their studies at the graduate level. Students may not register for this course without permission of the Undergraduate Program Adviser, who should be consulted before June 30 of the previous year.

4. FREN 1F90 is strongly recommended for honours students intending to continue their studies at the graduate level.

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*

- FILM 1F94
- COMM 1F90
- one Social Science context credit
- one Science context credit
- one elective credit

#### *Year 2*

- FILM 2F90, 2P20, 2P21, 2P54, 2P56, 2P94 and 2P95
- one elective credit

#### *Year 3*

- FILM 3P20 and 3P21
- FILM 3P54 or 3P56
- FILM 3P93 or 3P95
- FILM 3P92 or 3P96
- FILM 3P97 or 3P98
- two 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)
- FILM 3P92 or 3P96 (not taken in year 3)
- FILM 3P97 or 3P98 (not taken in year 3)
- one credit from FILM 2P80, 2P81, 2P82, 3F27, 3F28, 4F80, 4F99, COMM 2F50, 2F92, 2F95, 2P15, 3P16, 3P93, 4P23, POLI 2V71
- one elective credit

## FILM

### Film Studies Co-op (honours only)

Students admitted to the Co-op program must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

#### *Year 1*

- FILM 1F94
- COMM 1F90
- one Social Science context credit
- one Science context credit
- one elective credit

#### *Year 2*

- FILM 0N90, 2F90, 2P20, 2P21, 2P54, 2P56, 2P94 and 2P95
- one elective credit (MKTG 2P51 and 2P95 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 and 4P31
- FILM 3P54 or 3P56 (not taken in year 3)
- FILM 3P93 or 3P95 (not taken in year 3)
- FILM 3P92 or 3P96
- FILM 3P97 or 3P98
- one credit from FILM 2P80, 2P81, 2P82, 3F27, 3F28, 4F80, 4F99, COMM 2F50, 2F95, 2P15, 3P16, 3P93, 4P23, POLI 2V71
- one-half elective credit

Spring/Summer Sessions:

- FILM 0N03

#### *Year 5*

- Fall Term:
- FILM 4P30
  - FILM 3P92 or 3P96 (not taken in year 4)
  - FILM 3P97 or 3P98 (not taken in year 4)
  - 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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#### Honours

- FILM 1F94, 2F90, 2P54, 2P56, 2P94, 2P95, 3P20, 3P21, 4P30 and 4P31
- two credits from FILM 2P20 2P21, 3F27, 3F28, 3P54, 3P56, 3P92, 3P93, 3P95, 3P96, 3P97, 3P98, 4F80, 4F99

#### Pass

- FILM 1F94, 2F90, 2P54, 2P56, 2P94 and 2P95
- one credit from FILM 2P20, 2P21, 3F27, 3F28, 3P20, 3P21, 3P54, 3P56, 3P92, 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.

## French

*This program is co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

### Chair

H. Schutz  
TBA (as of July 1, 2002)

## General Information

### Administrative Assistant

Hajnalka Bela-Zavodni

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 coverage 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. In addition, the concurrent French Teaching Specialization BA (honours)/BEd includes a year of study in a French-speaking environment approved by the department.

## Program Notes

1. Students with OAC standing or equivalent in French take FREN 1F90, and may not take FREN 1P01, 1P02 and 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 OAC standing or equivalent take FREN 1P01, 1P02 or 1P03, according to their background. See individual course descriptions.

3. FREN 1P01, 1P02 and 1P03 are introductory language courses. Students who register in any of these courses must bring their official high school transcript to the department as proof of their level of competency 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 the languages concerned.

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. 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 and combined honours programs may include no more than two credits in such courses; combined pass programs may include no more than one and one-half credits in such courses.

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.

## Honours Program

### 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 3(alpha)00 or above (see program note 7)
- two elective credits

### Year 4

- FREN 4P03
- two and one-half FREN or MLLC credits numbered 4(alpha)00 or above (see program note 7)
- one FREN credit numbered 3(alpha)00 or above
- one elective credit

## Concurrent BA (Honours)/BEd

The Department of Modern Languages, Literatures and Cultures and the Faculty of Education co-operate in offering a

## FRENCH

concurrent BA (Honours)/BEd program. The French Teaching Specialization BA (Honours)/BEd program combines the BA honours program with teacher education for students interested in teaching at the Intermediate/Senior level (grades 7 - 12/OAC). Consult the Education - Concurrent BA (Honours)/BEd French Teaching Specialization entry for additional a listing of program requirements.

### 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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### 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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#### 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
- two credits from the co-major discipline
- one elective credit

##### *Year 4*

- FREN 4P03
- one and one-half FREN or MLLC credits numbered 3(*alpha*)90 or above
- two credits from the co-major discipline
- one elective credit

## General 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 either a Bachelor of Arts (pass only) or Bachelor of Science (honours or pass) with a General Studies major.

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### Bachelor of Arts

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The BA in General Studies is available as a pass (15 credits) 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.

#### Program requirements

- A student may select a maximum of three and one-half credits from any one discipline (including courses cross-listed with that discipline) with the exception of courses from the faculties of Applied Health Sciences, Education and Business.
- A maximum of three 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 the faculties of Humanities, Social Sciences and Mathematics and Science.
- Students must take eight credits at the 2(alpha)00 level or above (a maximum of seven credits at the 1(alpha)00 level or above are allowed), including a minimum of three credits at the 2(alpha)90 level or above.
- A Bachelor of Arts General degree will carry no major or area of concentration.
- 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 consult with the appropriate dean, the Assistant Registrar, Advising or an undergraduate program adviser when choosing courses.

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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 with a General Studies major 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 planning their program. 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.

#### Program requirements

Graduation from the two-year General Arts and Science Diploma program with a Grade Point Average (GPA) of B (70%) or better (with a minimum grade of B in SOCL 100, 200 and 104), and a minimum grade of 70 percent in CANA 1F91.

To complete the BA program with a General Studies Major, students will be required to complete 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)

In this program five of the seven credits must be numbered 2(alpha)00 or above, and of these three 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 and must be approved by the Dean, or designate. Of the 20 credits required for an honours degree, at least seven credits must be chosen in one subject and five in another. In addition to the normal University requirements, a student must include at least five credits in one subject and three in another as part of the 15 credits required for a pass degree. It should be noted that a maximum of seven credits from any combination of courses from the faculties of Business, Education, Physical Education, Recreation and Leisure Studies can be included in an honours BSc; a maximum of five 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. One credit in mathematics or computer science is required. BSc students must include three credits at the 2(alpha)90 level or above, with a minimum of two credits from the areas of concentration. In addition, General Studies (honours) students must offer three credits at the 3(alpha)90 level or above, with a minimum of two credits from the areas of concentration.

Students electing to pursue a General Studies program should consult with the appropriate dean, the Assistant Registrar, Academic Advising or an undergraduate program adviser when choosing courses.

# Geography

## Chair

Hugh J. Gayler

## Undergraduate Program Adviser

David Butz

## Professor Emeritus

John N. Jackson

## Professors

John Menzies, Keith J. Tinkler

## Associate Professors

David Butz, Hugh J. Gayler, Alun O. Hughes, Deborah Leslie, Daniel McCarthy, Michael Ripmeester, Anthony B. Shaw

## Assistant Professor

Xinxia Jiang

## Senior Demonstrator/Instructor

Daryl F. Dagesse

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## General Information

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### Administrative Assistant

Virginia Wagg

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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.

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 during registration week in early September, with follow-up seminars 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.

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## Program Notes

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1. Certain courses (GEOG 2P07, 2P96, 3F95, 3P01, 3P04, 3P05, 3P07, 3P81, 3P83, 3P95, 4F99, 4P02, 4P03) 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 2P10, 3P61 and 4P61.
5. Two Social Science credits are required and must be other than GEOG.
6. Three Science credits are required and must be from: BIOL/BCHM, CHEM, COSC, ERSC, MATH and PHYS (excluding ASTR 1F00, BIOL 1F25, CHEM 1P00, COSC 1P93, ERSC 1F90, 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 2P02, 2P03, 2P06, 2P10, 2P91, 2P96
- GEOG 3F90, 3F95, 3F96, 3P45, 3P52, 3P53, 3P57, 3P60, 3P65, 3P74, 3P81, 3P83, 3P84, 3P86, 3P87, 3P88, 3V60-3V69, 3V90-3V99
- GEOG 4F90, 4F99, 4P60, 4P61, 4P70, 4P71, 4P95, 4P96

*Group B:*

- GEOG 1F91
- GEOG 2P04, 2P05, 2P09, 2P11, 2P96
- GEOG 3F95, 3P10, 3P12, 3P24, 3P25, 3P26, 3P31, 3P33, 3P36, 3P56, 3P81, 3P83, 3P85, 3V60-3V69, 3V90-3V99
- GEOG 4F90, 4F99, 4P12, 4P13, 4P20, 4P26, 4P28, 4P80, 4P95, 4P96

*Group C:*

- GEOG 2P07
- GEOG 3P01, 3P04, 3P05, 3P07, 3P90, 3P91, 3P95
- GEOG 4P02, 4P03

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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)
- MATH 1P98
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one-half elective credit

*Year 2*

- GEOG 2P02, 2P03, 2P06, 2P07 and 2P10
- one Social Science credit (see program note 5)
- one and one-half elective credits (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, 4P60, 4P61, 4P70, 4P71, 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 and 1P98
- one Humanities context credit
- one Science context credit (see program note 6)

*Year 2*

- GEOG 2P04, 2P05, 2P07, 2P09 and 2P11
- one Science credit (see program note 6)
- one and one-half elective credits (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, 4P12, 4P13, 4P20, 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 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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## Bachelor of Arts in Geography

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### Honours

*Year 1*

- GEOG 1F90 and 1F91
- MATH 1P98
- one Humanities context credit
- one Social Science context credit (see program note 5)
- one-half elective credit

*Year 2*

- GEOG 2P07 or 2P11
- GEOG 2P10
- one credit from GEOG 2P02, 2P03, 2P06
- one credit from GEOG 2P04, 2P05, 2P09
- one Social Science credit (see program note 5)
- one 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

## GEOGRAPHY

- 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.

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## Bachelor of Science in Geography

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### Honours

#### Year 1

- GEOG 1F90 and 1F91
- MATH 1P97 and 1P98
- one Humanities context credit
- one Science context credit (see program note 6)

#### Year 2

- GEOG 2P07 or 2P10
- GEOG 2P11
- one credit from GEOG 2P02, 2P03, 2P06
- one credit from GEOG 2P04, 2P05, 2P09
- one Science credit (see program note 6)
- one 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.

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## Combined Major Programs

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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 involved. As in the single major programs, students pursuing a combined major may be admitted to the honours program at any time. The honours 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 3P56 or 3P57
- GEOG 4F99
- MATH 1P98 or equivalent

In addition, BSc Combined majors are required to complete MATH 1P97.

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## Concentration in Geographic Information Science

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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 involves courses offered through Brock/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 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 and 3P95 and receive the 4.5 transfer credits will satisfy the concentration in Geographic Information Science. Students in this program may not

take GEOG 3P01, 3P07 and 4F99 for credit.

4. The courses in the Niagara College certificate program are listed below. The 100-level courses are normally taught in the fall term and the 200-level courses in the winter term.

**GEOG 112**  
**Project Management**

**GEOG 114**  
**Database Systems**

**GEOG 115**  
**Introduction to Arc/Info**

**GEOG 116**  
**Computers and Programming**

**GEOG 117**  
**Spatial Analysis**

**GEOG 118**  
**Foundations of Mapping**

**GEOG 230**  
**Surveying and Data Collection**

**GEOG 231**  
**Remote Sensing**

**GEOG 232**  
**GIS Applications**

**GEOG 234**  
**Applied GIS Project**

**GEOG 235**  
**Advanced GIS Operations**

**GEOG 236**  
**Digital Image Processing**

Brock students are exempt from GEOG 118, and take GEOG 232 or 235.

### **BA (Honours) Geography with Concentration in Geographic Information Science**

#### *Year 1*

- GEOG 1F90 and 1F91
- COSC 1P95
- MATH 1P98
- one Social Science context credit
- one Humanities context credit

#### *Year 2*

- GEOG 2P02, 2P03, 2P06, 2P07, 2P10, 3P05 and 3P95
- one and one-half elective credits

#### *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
- 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 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
- MATH 1P98
- one Science context credit
- one Humanities context credit

#### *Year 2*

- GEOG 2P04, 2P05, 2P07, 2P09, 2P11, 3P05 and 3P95
- MATH 1P97
- one 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
- 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 elective credit (see program notes 2 and 7)

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### **Environmental Economics**

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Brock offers an honours BA program in Environmental Economics. Starting in the second year, students choose a secondary component normally in Biological Sciences, Environment or Human Geography.

Consult the Environmental Economics entry for a listing of program requirements.

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### **Minor in Geography**

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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.

## German

*This program is co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

### Chair

H. Schutz

TBA (as of July 1, 2002)

---

## General Information

### Administrative Assistant

Hajnalka Bela-Zavodni

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<http://www.brocku.ca/modernlanguages/index.html>

The Department aims to provide students with a thorough and comprehensive coverage of spoken and written German, its literature and culture. In addition to the courses taught in German, the department offers a series of courses taught in English that may be acceptable for credit toward a degree in German. Students are encouraged to participate in the study program in Germany.

### 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.

### German Area Studies

Students who wish to pursue German studies beyond the language and literature orientation as contained in the honours single and combined major description, a co-ordinated program leading to an honours BA in German Area Studies is available. Participating departments are Classics, English Language and Literature, Geography, History, Music, Philosophy, Political Science and Psychology. Contact the department regarding the program.

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## Program Notes

1. Students with OAC standing or equivalent in German take GERM 1F90 and may not take GERM 1F00 without permission of the department. Permission is granted only in the most exceptional cases.

2. Students without OAC standing or equivalent would normally take GERM 1F00 in year 1, which would count towards their degree, and GERM 1F90 in year 2.

3. GERM 1F00 is an introductory language course. Students who register in this course must bring their official high school transcript to the department as proof of their level of competency 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. 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 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.

6. 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 and combined honours programs may include no more than two credits in such courses; combined pass programs may include no more than one and one-half credits in such courses.

7. 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.

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

### Year 1

- GERM 1F90, 1P93 and 1P94 (see program note 1)
- one Science context credit
- one Social Science context credit
- one elective credit

### Year 2

- GERM 2F90, 2F92, 2P30 and 2P31 (or GERM 1F90 if GERM 1F00 taken in year 1)
- three elective credits

### For students in Freiburg:

- a maximum of three GERM credits
- two elective credits

*Year 3*

- Three credits from GERM (including GERM 2F90, 2F92, 2P30, 2P31 if not taken in year 2), MLLC 3P91, 3P92, 3P93, 3P94, 3P95 (see program note 6)
- two elective credits (see program note 8)

*Year 4*

- Three credits from GERM, MLLC 3P91, 3P92, 3P93, 3P94, 3P95 (see program note 6)
- two elective credits (see program note 8)

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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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### 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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**Honours***Year 1*

- GERM 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*

- GERM 2F90, 2P30 and 2P31 (see program note 1)
- two credits from the co-major discipline
- one elective credit

*Year 3*

- Two GERM or MLLC credits numbered 2(alpha)90 or above
- two credits from the co-major discipline
- one elective credit

*Year 4*

- Two GERM or MLLC credits numbered 3(alpha)90 or above
- two credits from the co-major discipline
- one elective credit

# Great Books/Liberal Studies

## Director

Francine M. McCarthy, Earth Sciences

## Participating Faculty

David W. Atkinson (English Language and Literature), Brian Crick (English Language and Literature), Michael Driedger (Great Books/Liberal Studies and History), 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), Mary Frances Richardson (Chemistry)

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## General Information

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### Administrative Assistant

Barb Alexander

905-688-5550, extension 4752

MacKenzie Chown C331

<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 which 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 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, 2P91, 2P93, 3P90, 3P93, 4P10) which 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 which 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, 2P91, 2P93, 3P90, 3P93, 4P10) 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, 2P91, 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 one-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, MKTG, OBHR; MGMT 3P98, 4P12 or 4P82.

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. 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

Years 1 and 2 of the Honours program as a single major is now closed

- GBLS 3P90, 4P10 and 4P99
- one credit from GBLS 1P92, 3P93, 3P97, 3P98, 3P99, 3V90-3V99, 4P40
- four and one-half credits from GBLS 1F98, 1P91, 1P93, 1P99, 2F97, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P93, 3P97, 3P98, 3P99, 3V90-3V99, 4P01, 4P02, 4P04, 4P06, 4P40, 4V00-4V09, 4V70-4V79
- three elective credits

#### Combined Honours

- GBLS 1F90, 1P91, 2P91, 3P90, 4P10 and 4P99
- one credit from GBLS 1P93, 1P99, 2P70, 2P92, 2P93, 3P93, 3P97, 3P98, 3P99, 3V90-3V99, 4P40
- two and one-half credits from GBLS 1F98, 2F97, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P93, 3P95, 3P97, 3P98, 3P99, 4P01, 4P02, 4P04, 4P06, 4P40, 4V00-4V09, 4V70-4V79
- one Science context credit (SCIE 1F30 recommended)
- seven credits from the co-major discipline
- one language credit (see language requirement)
- four elective credits

#### Combined Pass

- GBLS 1F90, 1P91 and 2P91
- two credits from GBLS 1F98, 1P93, 1P99, 2F97, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P97, 3P98, 3P99, 3V90-3V99
- one credit from GBLS 3P90, 3P93, 3P97, 3P98, 3P99, 4P10
- one Science context credit (SCIE 1F30 recommended)
- one language credit (see language requirement)
- five credits from the co-major discipline
- three elective credits

### 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 BA (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 2P91 and 2P92
- one credit from GBLS 2F97, 2P70, 2P93, 2P99, 2Q90, 2Q91, 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 GBLS credit numbered 2(*alpha*)90 level or above
- one elective credit

#### Year 4

- GBLS 4P99
- MGMT 3P80 and 4P80
- one GBLS credit numbered 3(*alpha*)90 level or above

- two credits from ACTG, ENTR, FNCE, MGMT, MKTG or OBHR (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, 2P91, 3P90, 4P10 and 4P99 (see program note 2)
- HIST 1F95, 1F96 or HIST 1P92 and 1P93
- HIST 2P99, 3P00, 4F99
- one credit from GBLS 1P93, 1P99, 2P70, 2P92, 2P93, 3P93, 3P97, 3P98, 3P99, 3V90-3V99
- two and one-half credits from GBLS 1F98, 2F97, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P93, 3P95, 3P97, 3P98, 3P99, 3V90-3V99, 4P01, 4P02, 4P04, 4P06, 4P40, 4V00-4V09, 4V70-4V79
- three HIST credits
- one HIST credit numbered 4V00-4V69
- FREN 1F90 (or one credit in another language other than English)
- 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.

## GREAT BOOKS/LIBERAL STUDIES

- GBLS 1F90, 1P91, 2P91, 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, 2P70, 2P92, 2P93, 3P93, 3P97, 3P98, 3P99, 3V90-3V99
- two and one-half credits from GBLS 1F98, 2F97, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P93, 3P95, 3P97, 3P98, 3P99, 3V90-3V99, 4P01, 4P02, 4P04, 4P40, 4P06, 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.

#### Year 1

- GBLS 1F90 and 1P91
- one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 (POLI 1P91 recommended)
- FREN 1F90 (or one credit in another language other than English)
- one-half elective credit
- one Science context credit

#### Year 2

- GBLS 2P91 and 2P92
- POLI 2F12 and 2P80
- one credit from GBLS 2F97, 2P70, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P93, 3P95
- 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, 3P00, 3P93, 3P95, 3P97,

3P98, 3P99, 3V90-3V99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P40, 4V00-4V09, 4V70-4V79

- one of POLI 2P93, 3P04, 3P07, 3P71
- one-half POLI credit numbered 2(*alpha*)90 or above
- one-half elective credit

#### Year 4

- GBLS 4P99 (see program note 2)
- one credit from GBLS 3P93, 3P95, 3P97, 3P98, 3P99, 3V90-3V99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 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

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## Bachelor of Science in Great Books/Liberal Studies

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Great Books/Liberal Studies can be combined with a concentration in Mathematics or Science. Students interested in this combination should consult the Program Director concerning their program and course selection.

Students who complete the combined honours program in Great Books/Liberal Studies and Physics may earn the BA or 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
- one of PHYS 1F20, 1F25, 1F90
- one and one-half elective credits (see program note 5)

#### Year 2

- GBLS 2P91 and 2P93
- MATH 2F05
- one of GBLS 1F98, 2P70, 2P92, 2P99, 2Q90, 2Q91, 3P00
- one credit from PHYS 2P20, 2P31, 2P50 (recommended)
- one and one-half elective credits

#### Year 3

- PHYS 3P20 (see program note 6)
- one of GBLS 2P92, 2P99, 2Q90, 2Q91, 3P00, 3P95, 3P97, 3P98, 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
- one elective credit

#### Year 4

- GBLS 4P99
- one of GBLS 3P90, 3P93, 4P10 (not taken in year 3)
- one and one-half credits from GBLS 2P92, 2F97, 2P99, 2Q90, 2Q91, 3P00, 3P95, 3P97, 3P98, 3P99, 3V90-3V99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P40, 4V00-4V09, 4V70-4V79
- one credit from PHYS 4F50, 4F90, 4P30, 4P41, 4P70
- one and one-half elective credits (see program note 6)

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## Certificate Program

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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 at least five credits in Great Books/Liberal Studies with a minimum overall average of 60 percent.

- GBLS 1F90, 2P91, 3P90 and 4P10
- two and one-half credits from GBLS 1F90, 1F98, 1P91, 1P93, 1P99, 2F97, 2P70, 2P91, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P90, 3P91, 3P00, 3P95, 3P97, 3P98, 3P99, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4P10, 4P11, 4P40, 4V70-4V79

See "Certificate Requirements" under Academic Regulations.

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### Minor in Great Books/Liberal Studies

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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, 2P91, 3P90 and 4P10
- two and one-half credits from GBLS 1F98 1P91, 1P93, 1P99, 2P91, 2F97, 2P70, 2P92, 2P93, 2P99, 2Q90, 2Q91, 3P00, 3P93, 3P95, 3P97, 3P98, 3P99, 4P01, 4P02, 4P03, 4P04, 4P05, 4P06, 4P07, 4V70-4V79

## Health Sciences

*This program is co-ordinated by 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

Shaver Residence room 300

<http://arnie.pec.brocku.ca/~health/CHSC.html>

The BSc honours in Health Sciences prepares students for careers in those 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.

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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 CHSC 1F90, and CHSC 1P99 or COSC 1P95 and have submitted a declaration to major.

2. The following courses are not available for science credit in the BSc program: ASTR 1F00, BIOL 1F25, CHEM 1P00, ERSC 1F90, PHYS 1F20, SCIE 1F30.

3. 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.

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### Honours Program

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*Year 1*

- CHSC 1F90
- CHSC 1P99 or COSC 1P95
- BIOL 1F90
- CHEM 1F92
- MATH 1P97
- one Humanities context credit (ENGL 1F95 recommended)

*Year 2*

- CHSC 2F95, 2P09 and 2P21
- BIOL 2F01 and 2P97
- MATH 1P98
- one Science elective credit numbered 2(alpha)00-2(alpha)99

*Year 3*

- CHSC 2P99 and 3P99
- CHSC 3Q07
- one CHSC credit
- BIOL 3P93 or 3P94
- two Science elective credits (see program note 2)

*Year 4*

- CHSC 4P50 and 4P95
- one and one-half credit CHSC credits 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)

## History

### Chair

Jane A. McLeod

### Undergraduate Officer

John A. Sainsbury

### Professors Emeriti

Craig R. Hanyan, Robert R. Taylor

### Professors

Frederick C. Drake (on leave), Rosemary Hale, John A. Sainsbury

### Associate Professors

Mark C. Anderson, Jane A. McLeod, Carmela K. Patrias

### Assistant Professors

Michael D. Driedger, David H. Schimmelpenninck, Barnett B. Singer, Murray R. Wickett, Donald A. 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 analyse 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 about four to six one 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.

### Latin America Study Abroad

This annual program, co-sponsored with Modern Languages, Literatures and Cultures, offers students an opportunity to study for the month of May somewhere in Latin America (e.g., Mexico, Guatemala, Cuba, Costa Rica). Participants earn a credit in Spanish from beginner to advanced (as appropriate) as well as one-half credit from HIST (SPAN) 2V90-2V99. See the departmental website for more details.

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## Language Requirement for Humanities Majors

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HIST majors are required to complete one credit in one language other than English to fulfill the Humanities language requirement. Where half credit courses are used to satisfy the requirement, both half credits must be in the same language. The History department recommends a

1(*alpha*)00 level credit in French, German, Italian, Latin, Russian or Spanish.

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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 course(s) from those listed under the heading "Departmental Offerings which are Approved History Credits". Students choosing this option must meet all prerequisites for the course(s) selected.

4. The courses chosen must be approved by the department Chair or Undergraduate Officer, as comprising an acceptable program.

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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Eleven HIST credits are required for an honours degree.

### Year 1

- HIST 1F95, 1F96 or HIST 1P92 and 1P93
- one Science context credit
- one Social Science context credit (see program note 1)
- two elective credits

## HISTORY

### 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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### Pass Program

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Seven HIST credits are required for a pass degree.

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 Programs

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The Department of History participates in combined major programs. Students take seven HIST credits for an honours degree and five HIST credits for a pass degree.

#### History and Great Books/Liberal Studies (honours only)

Consult the Great Books/Liberal Studies entry for a listing of the course requirements.

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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

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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 course(s) from those listed below. Students choosing this option must meet all prerequisites for the course(s) selected.

ABST 2M90-2M95  
Studies in Iroquois History

CANA 2F91  
Culture and Power in Canada

CLAS 2P30  
Origins of Human Culture

CLAS 2P91  
The History of Early Greece

CLAS 2P92  
The History of Classical Greece

CLAS 2P98  
History of the Roman Republic

CLAS 2P99  
History of the Early Roman Empire

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

ENGL 3F91  
History of the Language

ENGL 3V70  
Contemporary Writing and History

FILM 2F90  
Film History

FILM 2P20  
Introduction to Popular Culture  
(also offered as COMM/PCUL 2P20)

FILM 2P21  
Canadian Popular Culture  
(also offered as COMM/PCUL 2P21)

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 3P97  
Gender and Film  
(also offered COMM/WISE 3P97)

FILM 3P98  
Screened Women  
(also offered COMM/WISE 3P98)

GBLS 1F90  
Great Books Seminar I

GBLS 2F90  
Great Books Seminar II

GBLS 3P90 Great Books Seminar III: Part I	POLI 2F12 The Government and Politics of Canada	POLI 4P22 Foreign Policy Analysis Change in the Modern World
GBLS 4P10 Great Books Seminar III: Part II	POLI 2P91 Political Theory I	POLI 4P47 Arab Politics
GEOG 2P03 Urban Geography	POLI 2P92 Political Theory II	PSYC 4P92 History of Psychology
GEOG 2P06 Cultural and Historical Geography	POLI 2P93 Liberal Democracy	VISA 2P40 Early to High Renaissance Art and Architecture
GEOG 2P91 Geography of Canada	POLI 2P95 Politics, Culture and Society in Contemporary Britain	VISA 2P41 Baroque Art and Architecture
GEOG 3P45 Urban Growth Processes and Planning	POLI 2P97 The Government and Politics of the United States	VISA 2P50 Canadian Identities: From Nouvelle France to the Group of Seven
GEOG 3P86 Themes in Cultural Geography	POLI 3P11 Local Government	VISA 2P51 Themes in 20th-Century Canadian Art
GEOG 3P87 Themes in Historical Geography	POLI 3P16 Politics in Québec (also offered as CANA 3P16)	VISA 2P90 Art in Revolution: 1750-1851
MUSI 1F50 History of Music from Medieval to Modern Times	POLI 3P28 Canadian Foreign Policy	VISA 2P91 Modernism, Modernity and Contemporaneity: 1851-1907
MUSI 2P50 History of Music in Canada	POLI 3P43 Politics in the Developing World	VISA 3P05 The European Avant-Garde: 1905-1960
MUSI 2P51 History of Music in the Classical Era	POLI 3P44 Canada's Asian-Pacific Neighbours	VISA 3P06 The American Avant-Garde: 1912-1970
MUSI 2P52 History of Music in the Romantic Era	POLI 3P45 Politics in Advanced Democratic Systems	WISE 2P91 The Status of Women: Historical Perspectives
MUSI 3P96 History of Music in the Baroque Era	POLI 4P01 The Philosophy of Law (also offered as GBLS 4P01)	
MUSI 3P97 History of Music in the 20th-Century	POLI 4P02 Ancient Political Theory (also offered as GBLS 4P02)	
MUSI 4P50 History of Music in the Middle Ages	POLI 4P04 Politics and Tyranny (also offered as GBLS 4P04)	
MUSI 4P51 History of Music in the Renaissance	POLI 4P14 Federalism in Canada	
MUSI 4P52 18th-Century Italian Opera	POLI 4P15 Canadian Political Economy (also offered as LABR 4P15)	
MUSI 4P53 Methodology and Research in Musicology		
MUSI 4P54 Singspiel and German Romantic Opera		

# Italian

*This program is co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

## Chair

H. Schutz

TBA (as of July 1, 2002)

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## General Information

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### Administrative Assistant

Hajnalka Bela-Zavodni

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 coverage 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, in conjunction with the Department of Classics, offers a course in Rome, which runs for four weeks during the month of May. The course is given in English and is open to students from any discipline. 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 OAC standing or equivalent in Italian take ITAL 1F90 and may not take ITAL 1F00 and 1F01 without permission of the department. Permission is granted only in the most exceptional cases.

2. Students without OAC standing or equivalent in the language take ITAL 1F00 and 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 bring their official high school transcript to the department as proof of their level of competency 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. ITAL 1F00 and 1F01 may be taken for degree credit, but cannot be used to meet requirements for major programs in the languages concerned.

6. ITAL 1F00, 1F01, 1F90 and 2F00 constitute a sequence. Once credit has been obtained in one of these courses, students are not allowed to take for credit a course in the same language with a lower number in the sequence. Students may not take two courses at different levels in the sequence during the same term. This regulation also applies to courses taken at other institutions.

7. 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 and combined honours programs may include no more than two credits in such courses; combined pass programs may include no more than one and one-half credits in such courses.

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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## 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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### 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

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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.

## 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 choosing 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 second-class honours standing in order to continue in the program and to graduate. Additionally, an Integrated Studies Program must include an appropriate credit in MATH or COSC if the pattern of studies includes an emphasis in Science or Social Science or a credit in a language (in accordance with the language requirement of the Faculty of Humanities) if the pattern of studies includes an emphasis in the Humanities. Both may be required where circumstances warrant. When choosing a program, students should take care that prerequisites for advanced courses are met and that the schedule for cycled courses be considered.

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### Program Notes

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1. Students enrolled in the program are invited to participate in the study year in Germany at the University of Freiburg and are eligible for the practicum in Germany (GERM 3P98, 4P98). Both opportunities are offered by the Department of Germanic and Slavic Studies. Students

may also avail themselves of the many summer programs offered by universities in Québec and France.

2. 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.

A typical example of an Integrated Studies Program is the BA (honours) program in Canadian and European Union Studies.

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### BA Integrated Studies in Canadian and European Union Studies

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The program is offered only as a four-year honours program leading to the degree of Bachelor of Arts (BA) in Integrated Studies in Canadian and European Union Studies. Only students who have obtained a 70 percent overall average in year 2 may proceed to years 3 and 4.

Students will be required to pass an oral proficiency test in either French or German prior to graduation. Competence in both languages is strongly recommended.

One credit in FREN and GERM at the 1(*alpha*)00 level or above must be taken in years 1 and 2. At least two credits in either FREN or GERM, numbered 2(*alpha*)90 or above, must be taken during years 3 and 4.

Students must fulfil the University's context requirements.

Of the remaining credits, at least five must have European content and at least five must have Canadian content. A minimum of six credits must be taken in either HIST or POLI, including a year 4 honours research credit. Students should consult the Dean of Humanities regarding course selection.

#### Prerequisites:

Either OAC French (or FREN 1P01, 1P02) or German (or GERM 1F00). FREN 1P01, 1P02 or GERM 1F00 or both, may be taken in year 1.



# International Political Economy

*This program is co-ordinated by the Departments of Economics and Political Science*

## Co-ordinators

Robert Dimand, Department of Economics  
Pierre Lizée, Department of Political Science

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## General Information

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*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

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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

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### Year 1

- ECON 1P91 and 1P92
- MATH 1P01 or 1P97
- MATH 1P98
- POLI 1F90
- one Humanities context credit (HIST 1F95 recommended)
- one Science context credit

### Year 2

- ECON 2P21, 2P22, 2P31 and 2P32
- POLI 2F20 and 2P91
- POLI 2P92 or 2P93
- one elective credit

### Year 3

- ECON 2P90, 3P13, 3P93 and 3P94
- POLI 3P21 and 3P26
- one credit from POLI 2P94, 2P97, 3P28, 3P33 (recommended), 3P43, 3P45
- one elective credit

### Year 4

- ECON 3P90 and 3P91
- POLI 4P20 and 4P21
- one 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

# International Studies

## *Director*

John N. Sivell

## *Participating Faculty*

Irene Blayer (Modern Languages, Literatures and Cultures), David T. Brown (Environment), Carman Cullen (Management, Marketing and Human Resources), David Goicoechea (Philosophy), David Schimmelpenninck (History), Susan Spearey (English Language & Literature), John Sivell (Applied Language Studies), David Telfer (Tourism Studies)

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## General Information

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### *Administrative Assistant*

Fran Meffe

905-688-5550, extension 4224

Mackenzie Chown F242

<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.

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 be begun 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 courses.

The program strongly recommends that students gain 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 (both in the same language)
- one of INTL 2P94, PHIL 2P12, 2P13, 2P17, POLI 2P21, 2P47, SOCI 2P82, 2P83
- one of INTL 3P70, 3P90, 3P91, 3V25-29

Note: students able to demonstrate fluency in a language other than English may apply to the Director for permission

to substitute credits from INTL 2P94, 3P70, 3P90, 3P91, 3V25-29, PHIL 2P12, 2P13, 2P17, POLI 2P21, 2P47, SOCI 2P82, 2P83 in place of the required language credits.

Students taking an International Studies Minor in conjunction with a Tourism Major are exempted 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.

## 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. As well, some departments 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 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 75 percent overall 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 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 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:  
<http://www.brocku.ca/international/>

### One year programs administered by the Office of International Services

Brock/International Student Exchange Program (ISEP)

#### *Argentina*

- Universidad Catolica de Cordoba (ISEP)
- Universidad de Palermo (ISEP)
- Universidad del Salvador (ISEP)

#### *Australia*

- Deakin University (ISEP)
- Griffith University
- University of Canberra
- University of Southern Queensland (ISEP)

#### *Austria*

- Karl-Franzens-Universität (ISEP)

#### *Brazil*

- Pontifical University Católica do Rio de Janeiro (ISEP)

#### *Colombia*

- Instituto Colombiano de Estudios Superiores de Incolda (Cali) (ISEP)
- Pontificia Universidad Javeriana (ISEP)
- Universidad del Norte (Baranquilla) (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)

#### *France*

- Université d'Angers (ISEP)
- Université de Caen (ISEP)
- Université de Droit, D'Economie et des Sciences d'Aix-Marseille III (ISEP)
- Université de Franche-Comté (ISEP)
- Université de Grenoble II (ISEP)
- Université de Haute Bretagne (Rennes I and II) (ISEP)
- Université de Perpignan
- Institute d'Etudes Politiques de Rennes (ISEP)
- Université de Lille III (ISEP)
- Université de Savoie (ISEP)
- Université du Havre (ISEP)
- Institute de Formation Internationale Groupe ESC Rouen

#### *Germany*

- Canadian Year in Freiburg
- Philipps-Universität

#### *Ghana*

- University of Ghana, Legon

#### *Japan*

- Nagoya Gakuin University
- Hokkai Gakuin University

#### *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

#### *Netherlands*

- University of Leiden (ISEP)

## INTERNATIONAL STUDY AND EXCHANGE PROGRAMS

- Tilburg University (ISEP)
- University of Utrecht (ISEP)

### *New Zealand*

- Lincoln University

### *Sweden*

- Karlstad/Orebro Consortium (ISEP)
- Lulea University of Technology (ISEP)
- University of Vaxjo (ISEP)

### *Switzerland*

- Université de Fribourg (ISEP)

### *Thailand*

- Burapha University
- Mae Fah Luang University
- Srinakharinwirot University

### *United Kingdom*

- Glasgow Caledonian University
- Keele University
- University of Wales, Swansea

### *United States*

- International Student Exchange Program is a student exchange with a consortium of 110 American universities.
- University of North Carolina at Greensboro

### *Uruguay*

Brock/International Student Exchange Program

- Universidad Catolica del Uruguay (ISEP)

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## One year and other programs administered by Departments

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Please contact the departments concerned about their entries. Also, please contact the Office of the Associate Vice-President, International Co-operation and Director of Brock International.

### *Faculty of Business*

- Groupe ESC Dijon Bourgogne (France)

- Institut de Formation Internationale Group ESC Rouen (France)

### *Faculty of Education*

- Rand Afrikaans University (South Africa)

### *Department of Modern Languages, Literatures and Cultures*

Summer Studies in Italy (summer only)

Canadian Year in Freiburg (for students in year 2 and up)

- 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 as courses are not 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

### *England*

GEOG 3F90  
London Field Studies

### *Germany*

GERM 3P98  
Practicum in Germany I

GERM 4P98  
Practicum in Germany II

### *Greece/Cyprus*

CLAS 4F75  
Archaeological Practicum in Cyprus

CLAS 4M00-4M09  
Study in Mediterranean Lands

GEOG 3F95  
Greek Viticulture and Wines

### *Latin America*

SPAN 2V90-2V99  
History and its Environment in a Spanish Region

## Kinesiology

*This program is co-ordinated by the Department of Physical Education and Kinesiology.*

### *Chair*

Anna H. Lathrop

### *Undergraduate Co-ordinator*

Stephanie Brooks

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## General Information

### *Administrative Assistant*

Susan Gale-Wolbert

905-688-5550, extension 4358

Physical Education 283

<http://larnie.pec.brocku.ca/~phed/>

The Department of Physical Education and Kinesiology offers a 20 credit BKin degree. Core courses in this degree reflect national accreditation standards established by the Canadian Council of University Physical Education and Kinesiology Administrators. The Department of Physical Education and Kinesiology has applied for accreditation by this council.

The requirement for graduation with a BKin (honours) is a minimum 70 percent major average and a minimum 60 percent non-major average. The requirement for graduation with a BKin degree is a minimum 60 percent major average and a minimum 60 percent overall average.

The BKin degree 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.

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## Program Notes

1. Students wishing to proceed to year 2 as kinesiology majors must have achieved a minimum of 65 percent major average, with a minimum of 60 percent in PEKN 1P90, PEKN 1P93, and PEKN 1P99 or COSC 1P95.
2. Kinesiology majors must take one and one-half elective credits outside the Department of Physical Education and Kinesiology.
3. Kinesiology majors are strongly recommended to take an emergency First Aid/CPR course.
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.

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## Program of Study

### *Year 1*

- PEKN 1P90 and 1P93
- PEKN 1P99 or 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, 2P84, 2P91 and 2P95
- one and one-half elective credits

### *Year 3*

- PEKN 2P97, 3P01, 3P10, 3P70, 3P75, 3P90 and 3P95
- PEKN 3P08 or 3P18
- one elective credit

### *Year 4*

- PEKN 3P94, 4F90, 4P10 and 4P11
- one credit PEKN numbered 4(alpha)90 or above
- one and one-half elective credits (see program note 2)

# Labour Studies

## Director

Daniel G. Glenday, Department of Sociology

## Participating Faculty

Robert Andersen (Sociology), Ann D. Duffy (Sociology), Daniel G. Glenday (Sociology), Felice Martinello (Economics), Carmela Patrias (History), Roberta E. Robb (Economics), Garth Stevenson (Political Science)

## General Information

### Administrative Assistant

Barb Alexander

905-688-5550, extension 4753  
MC C331  
<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 multidisciplinary 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 Programs

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 1P91 and 1P92
- 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 2F00
- POLI 2F12 and 2P80
- one of POLI 2P91, 2P92, 2P93
- one LABR credit
- one elective credit

#### Year 3

- LABR 3F00 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 4P91
- one half LABR credit
- two POLI credits
- one elective credit (see program note 1)

## Labour Studies and Sociology

#### Year 1

- LABR 1P91 and 1P92
- 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 2F00
- LABR 2P32 or 2P34
- one SOCI credit
- SOCI 2F10
- one-half LABR credit
- one elective credit

#### Year 3

- LABR 3F00
- 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 4P91
- one half LABR credit
- 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.

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## Certificate in Labour Studies

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The Centre for Labour Studies offers a Certificate in Labour Studies designed for persons who already have a degree or do not wish to pursue a degree. The program consists of required courses with core concepts in Labour Studies and electives, where students cover Labour Studies topics in more detail. The admission requirements are the same as for the degree program.

The certificate is awarded upon completion of at least five credits as set out below with an overall minimum average of 60 percent.

- LABR 1P91, 1P92 and 2F00
- one credit from ECON 1P91 and 1P92, one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 level or SOCI 1F90
- two credits from LABR 2F98, 2P15, 2P32, 2P34, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P66, 3Q95

See “Certificate Requirements” under Academic Regulations.

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## Concentration in Labour Studies

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Students may earn a Concentration in Labour Studies by successfully completing the courses listed below as part of their academic work leading to an BA (honours) in Economics, Political Science or Sociology.

- LABR 1P91, 1P92, 2F00 and 3F00
- one credit from ECON 1P91 and 1P92, one POLI credit numbered 1(*alpha*)90 to 1(*alpha*)99 or SOCI 1F90
- two credits from LABR 2F98, 2P15, 2P32, 2P34, 3P13, 3P24, 3P25, 3P30, 3P33, 3P34, 3P65, 3P66, 3Q95, 3V95-3V99, 4P15, 4P32, 4P54.

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.

# Management, Marketing and Human Resources

## *Chair*

Eli Levanoni

## *Professors*

Barbara J. Austin, A. Tansu Barker, W. D. Kenneth Kernaghan, Martin I. Kusy, William W. Liddell, Kenneth E. Loucks

## *Associate Professors*

Danny Cho, Carman W. Cullen, Eugene Kaciak, Eli Levanoni, E. Sharon Mason, Teresa V. Menzies, H. Brian W. Metcalfe, Thomas M. Mulligan, Howard W. Prout, Sanjay Putrevu, Ronald H. Rotenberg, Kojo Saffu, Carol A. Sales, Mark J. Thomas, J. David Whitehead, Peter Yannopoulos

## *Assistant Professor*

John Walker

## *Lecturers*

M. Sharon Broderick, Frances Tuer

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## General Information

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### *Administrative Assistant,*

Jila Boal

905-688-5550, extension 3944

Taro Hall 336

<http://www.bus.brocku.ca/>

The Department of Management, Marketing and Human Resources offers four-year, 20 credit programs in Business Administration. A subsequent degree is available for students holding an undergraduate degree in another discipline. A five credit minor in Business is open to Brock students pursuing degrees in other Faculties.

*Please consult the relevant entry for a listing of courses and program requirements.*



# Mathematics

## Chair

Eric R. Muller

## Professors Emeriti

Howard Bell, Shao-Chien Chang, Velmer B. Headley, John P. Mayberry

## Professors

Mei Ling Huang, Ronald A. Kerman, Charles F. Laywine, Eric R. Muller, Jan Vrbik

## Associate Professors

Stephen Anco, Thomas A. Jenkyns, William J. Ralph, Thomas Wolf

## Assistant Professors

Henryk Fuks, Yuanlin Li

## Instructors

Dorothy Levay, Dorothy Miners

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## General Information

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### 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. The Department of Mathematics is committed to maintaining the high quality of its current honours program during the transition to the new MICA program.

Students in the MICA program will 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 department has a special interest in Mathematics Education and offers several programs and courses specifically for prospective teachers. See the section below on programs 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

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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 graduate studies in Pure Mathematics will find it essential to have MATH 4F10 or both MATH 4P03 and 4P04 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

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### Year 1

- MATH 1P01, 1P02, 1P12 and 1P40
- COSC 1P02
- two and one-half 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)

### Year 4

- Four MATH credits (see program notes 2 and 3)
- one elective credit (see program note 3)

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## Mathematics Honours Program

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### Year 2

Year 2 is now closed.

### Year 3

- MATH 3P03, 3P04, 3P12 and 3P13
- one credit from those not taken above or from MATH credits numbered 3(alpha)00 or above
- two elective credits (see program note 3)

### Year 4

- Four MATH credits (see program notes 2 and 3)
- one elective credit (see program note 3)

## MATHEMATICS

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### Mathematics Pass Program

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#### Year 1

- MATH 1P01, 1P02, 1P12 and 1P40
- COSC 1P02
- two and one-half 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 Programs

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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. If any student wishes a major program that combines Mathematics with any other discipline, he or she may request approval of an individual program from the two departments involved.

#### Mathematics and Computer Science Co-op (honours only)

Students admitted to the Co-op program must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

#### Year 1

- COSC 1P02 and 1P03
- MATH 1P01, 1P02, 1P66 and 1P67
- one Science context credit
- one Social Science context credit

#### Year 2

- COSC 1P12, 2P03, 2P32 and 2P90
- MATH 1P12, 1P40, 2P03 and 2P81
- one Humanities context credit

#### Spring/Summer Sessions:

- COSC 0N01

#### Year 3

- COSC 2P13, 2P50 and 3F00
- MATH 2F40 3F65 and 2P82
- one-half elective credit

#### Year 4

- Fall Term:
- COSC 0N02

Winter Term:

- COSC 0N03

#### Spring/Summer Sessions:

- one and one-half COSC credits (see program note 3)
- MATH 3P60 and 4P61

#### 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.

#### 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.

#### Concurrent BSc/BEd

The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent pass BSc/BEd Integrated Studies program with a

concentration in mathematics for students interested in teaching grades 4 to 8. After graduation from the BSc/BEd program, students may proceed to an honours Bachelor of Science degree in Integrated Studies. Refer to the Education - Concurrent BSc/BEd Program listing for additional information.

#### Secondary

For Mathematics as the major area of concentration (a minimum of five credits), an honours degree in Mathematics is recommended. Students should consult the Chair in the selection of courses.

For Mathematics as the minor area of concentration (a minimum of three credits) - MATH 1P01, 1P02, 1P12, 2P90, 2P93 and one-half MATH credit.

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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 at least one full-year university level course in Calculus.

- 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.

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### Concentration Programs

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#### Concentration in Pure Mathematics

Students may earn a Concentration in Pure Mathematics by successfully completing the courses listed below as part of the academic work leading to a BSc (honours) in Mathematics (with the possible exception of MATH 2P72).

- MATH 2P04, 2P12, 2P13, 2P71 (recommended) or 2P72, 3P03, 3P04, 3P12 and 3P13
- MATH 2P71 (recommended) or 2P72

- two credits from MATH 4F10, 4F90, 4F91, 4P03, 4P04, 4P71

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 courses listed below as part of the academic work leading to a BSc (honours) in Mathematics.

- MATH 2F40, 2P81, 2P82, 3F40, 3P81, 3P82, 4F83, 4P81 and 4P82.

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.

# Modern Languages, Literatures and Cultures

## *Chair*

H. Schutz  
TBA (as of July 1, 2002)

## *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), Leonard A.  
Rosmarin (French), Herbert Schutz  
(German)

## *Associate Professors*

Irene M. F. Blayer (Spanish), Barry W. K.  
Joe (German), John A. Michielsen  
(German), Martha J. Nandorfy (Spanish)

## *Assistant Professors*

Ernesto J. Virgulti (Italian)

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## General Information

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### *Administrative Assistant*

Dawn (Hajnalka) Bela-Zavodni

(905) 688-5550, extension 3312

Mackenzie Chown A240

<http://www.brocku.ca/modernlanguages>

The Department of Modern Languages, Literatures and Cultures offers courses in French, German, Italian and Spanish as well as interdisciplinary courses in Modern Languages, Literatures and Cultures. The Department also offers beginners' courses in 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, German, Spanish, a three-year BA pass in French, German, Italian, Spanish, Three Languages, Literatures and Cultures degree programs and a five-

year BA honours degree/BEEd degree in French Teaching Specialization. In addition the Department offers a minor programs in Language Studies.

*Please consult the relevant entries for a listing of courses and program requirements. For clarification consult the Department.*

The Department aims to provide students with a thorough and comprehensive coverage 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 may be 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, Germany, Italy, Spain and Latin America.

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## Program Notes

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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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## Minor in Language Studies

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Students in other disciplines can obtain a Minor in the Language Studies within their degree program by competing the following courses with a minimum 60 percent overall average.

- two credits from FREN 1F90, 2F00, GERM 1F90, 2F90, ITAL 1F90, 2F00, SPAN 1F90
- two FREN, GERM, ITAL or SPAN credits
- one FREN, GERM, ITAL or SPAN literature and/or culture credit

## Music

### *Chair*

Peter Landey

### *Associate Professors*

Patricia Debly, Peter Landey, Harris Loewen

### *Assistant Professor*

Brian Power

Artist in residence: Piano, TBA

### *Part time Instructors*

Brent Adams (tuba), Lesley Atreo (organ), Terry Ball (violin and viola), Terrance Basom (saxophone), Sylvain Brillon (French horn), Gordon Cleland (cello), Terrance Cox (popular culture), Cécile Desrosiers (harpsichord), Patricia Dydnansky (flute), Jonathan Earp (guitar), MaryKatherine Finch (cello), Janice Fralick (French horn), Steven Fralick (trombone), David Gaines (percussion), Zoltan Kalman (clarinet, saxophone), Deborah Linton (voice), Roger Macchiaroli (double bass), Catherine MacDonnell-Stephens (bassoon), Douglas Miller (flute, saxophone), Sandra Sakofsky (oboe, cor anglais), Laura Thomas (percussion), Suzanne Thomas (harp), Tim White (wind ensemble, trumpet)

### *Piano Technicians*

Chris Fletcher, John Rawlin

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## General Information

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### *Administrative Assistant*

Jane Dyton

905-688-5550, extension 3817

Thistle 139

<http://www.brocku.ca/music/>

The Department of Music, part of the School of Fine and Performing Arts, prepares 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 BMus honours, a BA honours in Music, a BA with a Major in Music and a three-year BA pass 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 reaudition 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 a Major in Music.

### **Facilities**

Facilities in the Music department 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 543seat 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 listening

room is equipped with tape and video cassette recorders, as well as record, compact disc, and laser disc players. The Library has an extensive collection of records, compact discs, video tapes, laser discs and CDRoms. There is a substantial collection of music literature, collected editions, scores and specialized music journals.

### **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. Students who do not meet these entrance requirements may upgrade their skills through preparatory music courses offered by the department.

Prospective students must arrange an audition with the music department. Admission as a major will depend on the successful completion of placement tests in basic rudiments, 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

## MUSIC

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 VIII 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.

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### Language Requirement for Humanities Majors

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Students in the Music program, including single and combined majors in 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 2P51, 2P52, 3P96, 3P97, 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 2P51, 2P52, 3P96, 3P97, 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 a 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.

#### 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 2P51, 2P52, 3P96, 3P97, 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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*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 2P51, 2P52, 3P96, 3P97, 4P50, 4P51
- one language credit (see language requirement)
- one elective credit

*Year 3*

- MUSI 3P83
- one and one-half MUSI credits
- three elective credits

Students who audit MUSI 3P83 must complete an additional one-half 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 pass degree.

**Music and Great Books/Liberal Studies (honours only)**

Consult the Great Books/Liberal Studies entry for a listing of program requirements.

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### Combined Major Programs

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**Honours**

Students may take a combined major in MUSI and in a second discipline. For requirements in the other discipline, the student 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 2P51, 2P52, 3P96, 3P97, 4P50, 4P51
- one MUSI credit

# Neuroscience

## Director

A. Joffre Mercier, Department of Biological Sciences)

## Co-ordinators

TBA

## Participating Faculty

Stefan Brudzynski (Psychology), David DiBattista (Psychology), Robert L. Carlone (Biological Sciences), Kimberly A. Cote (Psychology), Jane Dywan (Psychology), David A. Gabriel (Physical Education), Dawn E. Good (Psychology), Michel Ladouceur (Physical Education), A. Joffre Mercier (Biological Sciences), Sidney J. Segalowitz (Psychology), Gaynor E. Spencer (Biological Sciences), Paul D. Tyson (Psychology)

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## General Information

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### Administrative Assistant

Beulah Alexander

905-688-5550, extension 3115

Mackenzie Chown MC F236

<http://www.brocku.ca/neuroscience/>

Neuroscience, the study of behaviour and its underlying neural mechanisms, is studied in psychology, biology and other departments at many universities, but there is an increased tendency in North America and Europe to offer neuroscience as a specialized major program. Neuroscience combines selected courses from the disciplines of psychology and biology that illustrate behavioural, cellular and physiological approaches to examining the nervous system. The program is specifically designed to permit integration of information derived experimentally from both 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, chiroprac-

tic and physical or occupational therapy.

The BSc honours program is divided into two streams, allowing students to specialize in either Neurobiology or Neuropsychology. Honours students must choose one concentration or the other. The first two years are identical for all programs in Neuroscience.

The BSc with a 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 either 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).

Admission to the Co-op program is on the basis of marks and a personal interview. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement.

Students admitted to the Co-op program must follow the Neuroscience Co-op program schedule. Failure to adhere to the schedule may result in removal from the Neuroscience Co-op program. 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 Neuroscience Co-op program.

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.

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## Program Notes

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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. 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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### Neurobiology stream

#### Year 1

- BIOL 1F90
- CHEM 1F92
- PHYS 1F25
- 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 3F91, 3P34, 3P84 and 3P98
- BCHM 3P01
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P51, 3P60
- one elective credit

#### Year 4

#### Thesis option

- NEUR 3P97, 4F90 and 4F91
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 4P28, 4P34, 4P52, 4P53, 4P56, 4P84
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit



**Library Research option**

- NEUR 3P97 and 4F92
- one and one-half credits from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 4P28, 4P34, 4P52, 4P53, 4P56, 4P84
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit

**Neuropsychology stream***Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1F25
- 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 3F91, 3P34, 3P84 and 3P98
- BCHM 3P01
- PSYC 3P30
- one of LING 2P97, 3P98, 3P99, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98
- one elective credit

*Year 4***Thesis option**

- NEUR 3P97, 4F90 and 4F91
- PSYC 3P39
- one credit from LING 2P97, 3P98, 3P99, 4P20, 4P21, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98, 4P21, 4P22, 4P70, 4V86, 4V87, 4V88
- one elective credit

**Library Research option**

- NEUR 3P97 and 4F92
- two and one-half credits from LING 3P98, 3P99, 4P20, 4P21, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98, 4P21, 4P22, 4V86, 4V87, 4V88
- one elective credit

**Neuroscience Co-op Program (honours only)**

Students admitted to the Co-op program must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

*Neuroscience Co-op Program (honours only)*

Students admitted to the Co-op program must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

**Neurobiology stream***Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1F25
- 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 3F91, 3P34, 3P84 and 3P98
- BCHM 3P01
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P51, 3P60
- one elective credit

## Spring/Summer sessions:

- NEUR 0N00 (optional)

*Year 4*

## Fall Term:

- NEUR 0N02

## Winter Term:

- NEUR 0N03

*Year 5*

## Thesis option

- NEUR 3P97, 4F90 and 4F91 (see program note 1)
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 4P28, 4P34, 4P52, 4P53, 4P56, 4P84
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit

**Library Research option**

- NEUR 3P97 and 4F92 (see program note 1)
- one and one-half credits from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 4P28, 4P34, 4P52, 4P53, 4P56, 4P84
- one credit from BIOL 4P28, 4P34, 4P84
- one elective credit

**Neuropsychology stream***Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1F25
- 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 3F91, 3P34, 3P84 and 3P98
- BCHM 3P01
- PSYC 3P30
- one-half credit from LING 2P97, 3P98, 3P99, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98
- one elective credit

## NEUROSCIENCE

Spring/Summer sessions:

- NEUR 0N00 (optional)

*Year 4*

Fall Term:

- NEUR 0N02

Winter Term:

- NEUR 0N03

*Year 5*

Thesis option

- NEUR 3P97, 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, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98, 4P21, 4P22, 4P70
- one elective credit

**Library Research option**

- NEUR 3P97 and 4F92 (see program note 1)
- two and one-half credits from LING 3P98, 3P99, 4P20, 4P21, NEUR 4V86, 4V87, 4V88, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98, 4P21, 4P22
- one elective credit

*Year 3*

- NEUR 3F91, 3P34, 3P84 and 3P98
- BCHM 3P01
- one credit from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, LING 2P97, 3P98, 3P99, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98
- one elective credit

*Year 4*

- NEUR 3P97
- one of BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 4P28, 4P34, 4P52, 4P53, 4P56, 4P84
- three credits from BCHM 3P02, BIOL 2P92, 2P97, 3P28, 3P50, 3P51, 3P60, 4P28, 4P34, 4P52, 4P53, 4P56, 4P84, LING 2P97, 3P98, 3P99, 4P20, 4P21, PSYC 2F12, 2F20, 2F91, 3F46, 3P56, 3P68, 3P92, 3P94, 3P99, 3Q97, 3Q98, 4P21, 4P22, 4V86, 4V87, 4V88
- one elective credit

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## BSc with a Major Program

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*Year 1*

- BIOL 1F90
- CHEM 1F92
- PHYS 1F25
- PSYC 1F90
- one Humanities context credit

*Year 2*

- NEUR 2F36
- BIOL 2F01
- CHEM 2P20
- MATH 1P12 or 1P97
- PSYC 2F23
- one elective credit

## Nursing

### Chair

John Hay

### Co-ordinator

Linda Ritchie

### Assistant Professors

Marilyn Evans, Heather Lee Kilty,  
Melanie MacNeil, Lynn Rempel, Linda  
Ritchie

### Nursing Clinical Administrators

Eileen MacRae, Sandra Micsinszki

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## General Information

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### Administrative Assistant

Sally Lewis

905-688-5550, extension 4660

Shaver Residence Room 101

<http://www.brocku.ca/nursing>

The Department of Nursing offers two Honours BSc in Nursing programs: the Brock University and Loyalist College Collaborative Nursing Baccalaureate Program, and the BScN Degree Completion Program.

The Brock University - Loyalist College Collaborative Nursing Baccalaureate Program is a four year, full time, limited enrolment program. The first two years are undertaken at Loyalist College, Belleville, Ontario and the final two years are completed at Brock University. Graduates are eligible to write the provincial registration examinations.

The BScN Degree Completion Program is a limited enrolment program designed for Registered Nurses wishing to obtain a BScN. The program requires successful completion of a minimum of eight Brock credits and may be completed on a full-time basis over 12 months or part-time. Once admitted into the program, the degree requirements must be met within five calendar years.

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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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## Bachelor of Science in Nursing Program

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Years 1 and 2 are taken at Loyalist College

### Year 1

- 040-650B Bioscience 1 and
- 040-655B Bioscience 2
- 040-652B Health Assessment
- 001-010B Interpersonal
- Communications
- 040-651B Lifespan Development
- 040-653B Nursing and Health
- 040-654B Nursing Lab 1
- 040-659B Nursing Practice 1
- 040-658B Nursing Theory 1
- 040-657B Nutrition
- 040-656B Pharmacology
- 060-310B Psychology 1

### Year 2

- 040-662B Nursing Practice 2 and
- 040-665B Nursing Practice 3
- 040-661B Nursing Theory 2 and
- 040-664B Nursing Theory 3
- 040-660B Pathophysiology and
- Therapeutics
- 007-517B Sociology
- 040-524N Understanding Research
- in Nursing

### Year 3

- NUSC 3F90, 3P10, 3P12, 3P20, 3P92,
- 4P20 and 4P30
- one Humanities context credit

### Year 4

- CHSC 2P21 and 4P99
- NUSC 4F90, 4F92, 4P50, 4P60, 4P70
- and 4P80

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## Bachelor of Science in Nursing Completion Program

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- NUSC 3P10, 3P19, 3P20, 4F90, 4P20,
- 4P30, 4P40, 4P70 and 4P80
- CHSC 2P09, 2P21, 2P50, 2P91, 2P94
- and 3P97

# Oenology and Viticulture

*This program is co-ordinated by the Department of Biological Sciences.*

*Co-ordinator, Experiential Learning*  
E. Brian Grant

*Senior Laboratory Demonstrator*  
Gail Higenell

## *Participating Faculty*

Linda Bramble, Margaret Cliff, Carman Cullen, Helen Fisher, Simon Haynes, Debra Inglis, Kevin W. Ker, Ronald S. Jackson, Gary Pickering, Andrew G. Reynolds, Ronald E. Subden, 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/ccovil/acad/>

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 within some aspect of 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 Intern Experiences, 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. Intern Experiences are not program requirements 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.

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 2P08 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 Coordinator of Experiential Learning.
5. Students planning on a sensory component to an honours thesis project are advised to take OEVI 4P20 in year 3.
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.

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## Honours Program

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### *Year 1*

- OEVI 1P20
- BIOL 1F90
- CHEM 1F92
- MATH 1P97 and 1P98
- PHYS 1P10
- one Humanities context credit or Social Science context credit (see program notes 1 and 2)

### Spring/Summer Sessions:

- OEVI 0N30 (optional)

*Year 2*

- OEVI 0N01 or 0N02
- OEVI 0N90, 2P45 and 2P99
- BIOL 2F01, and 2P98
- CHEM 2P20, 2P21 and 2P42 (see program note 1)
- the Humanities context credit or Social Science context credit not taken in year 1

## Spring/Summer Sessions:

- OEVI 0N31

*Year 3*

- OEVI 0N01 or 0N02 (not taken in year 2)
- OEVI 3P21, 3P25, 3P98 and 4V90
- BCHM 3P01
- BIOL 2P96
- BTEC 3P50
- one of BIOL 3P91, BTEC 2P09, 2P63, 3P62, 3P63, ERSC 3P00
- one elective credit (see program notes 1, 3 and 5)

## Spring/Summer Sessions:

- OEVI 0N32

*Year 4*

## Fall Term:

- OEVI 0N33

## Winter/Spring Terms:

- OEVI 4P20 (see program note 5) and 4P30
- OEVI 4F90 and 4F91, or OEVI 4F92 and one elective credit
- CHEM 3P41
- one of OEVI 3P12, 3P50, BCHM 4P02, BIOL 3P51, 3P91, 4P57, 4P58, BTEC 3P09, 3P62, 3P63, 4P08, ERSC 3P00
- one elective credit (see program notes 4 and 6)

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 five credits with a minimum 70 percent overall average.

Certificate students will enrol in courses as scheduled for the degree program students.

- OEVI 1P20, 2P45, 2P99, 3P25, 3P98 and 4P30
- two credits from OEVI 3P12, 3P21, 3P50, 4P20, 4V90, BCHM, BIOL, BTEC or CHEM courses numbered 2(*alpha*)00 or above

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## Certificate in Grape and Wine Technology

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## Eligibility requirements:

For those individuals having completed an undergraduate degree in biological sciences or chemistry or some related area (e.g., biotechnology, biochemistry etc.)

or

# Philosophy

## Chair

R. Raj Singh

## Professors Emeriti

J. R. A. Mayer, Debabrata Sinha

## Professors

David L. Goicoechea, R. Raj Singh

## Associate Professors

Richard S. G. Brown, Wing-Cheuk Chan,  
Robert W. Malone, Murray L. Miles,  
Hans-Georg Moeller, George J. Nathan

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## General Information

### Administrative Assistant

Irene Cherrington

905-688-5550, extension 3315

Schmon Tower 1128

<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. At Brock the undergraduate student studies 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

PHIL majors must complete a credit in one language other than English (classical or modern), within the first 10 credits. 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

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 fulfil this requirement.

3. Some year 4 courses will be offered conjointly with a correspondingly numbered year 5 (graduate level) course.

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

### 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

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

### Honours

- One credit from 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

- 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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## 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.

# Physical Education

*This program is co-ordinated by the Department of Physical Education and Kinesiology.*

## Chair

Anna H. Lathrop

## Undergraduate Co-ordinator

Stephanie Brooks

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## General Information

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### Administrative Assistant

Susan Gale-Wolbert

905-688-5550, extension 4358

Physical Education 283

<http://arnie.pec.brocku.ca/~phed/>

The Department of Physical Education and Kinesiology offers a 20 credit BPhEd degree or a BPhEd (honours)/BEd degree. Within the BPhEd degree students may choose one of three streams. Core courses in these streams reflect national accreditation standards established by the Canadian Council of University Physical Education and Kinesiology Administrators. The Department of Physical Education and Kinesiology has applied for accreditation by this council.

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 a Major is a minimum 60 percent major average and a 60 percent minimum overall average.

Successful graduates of the concurrent BPhEd (honours)/BEd degree will receive an honours Bachelor of Physical Education degree and a Bachelor of Education degree. As well, the concurrent BPhEd (honours)/BEd degree core courses reflect national accreditation standards established by the Canadian Council of University Physical Education and Kinesiology Administrators. The Department of Physical Education and Kinesiology has applied for accreditation

by this council. 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 grades K - 6.

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 focuses 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 physical education majors must have achieved a minimum 65 percent major average, with a minimum 60 percent in PEKN 1P90, PEKN 1P93, and PEKN 1P99 or COSC 1P95.

2. Changing majors may require additional courses; students should consult the Department of Physical Education and Kinesiology.

3. Students should consult with the Physical Education and Kinesiology department regarding their program requirements.

4. Physical Education majors must take one and one-half 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. Physical Education majors are strongly recommended to take an emergency First Aid/CPR course.

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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## Programs of Study

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### General

#### Year 1

- PEKN 1P90 and 1P93
- PEKN 1P99 or 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 2P95, 2P97, 3P00, 3P10 and 3P70
- PEKN 2P44 or 2P92
- PEKN 3P03 or 3P06
- one-half PEKN credit
- one elective credit

#### Year 4

- One of PEKN 3P41, 3P93, 4P11, 4P50
- one PEKN credit numbered 4(alpha)90 or above
- two PEKN credits
- one and one-half elective credits (see program notes 4 and 7)

### Disability Studies

#### Year 1

- PEKN 1P90 and 1P93



- PEKN 1P99 or 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, 2P44, 2P84 and 2P92
- PEKN 2P03 or 2P06

*Year 3*

- PEKN 2P95, 2P97, 3P00, 3P23, 3P41, 3P70, 3P91 and 3P92
- PEKN 3P03 or 3P06
- one-half elective credit

*Year 4*

- PEKN 3P10, 3P93, 4F02 and 4P12
- one PEKN credit numbered 4(*alpha*)90 or above
- one-half PEKN credit
- one elective credit (see program notes 4 and 7)

**Movement Studies**

*Year 1*

- PEKN 1P90 and 1P93
- PEKN 1P99 or 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 2P95, 2P97, 3P00, 3P03, 3P06, 3P10 and 3P70
- PEKN 2P44 or 2P92
- one elective credit

*Year 4*

- PEKN 3P41, 3P93, 3P97 and 4F93
- one PEKN credit numbered 4(*alpha*)90 or above
- one and one-half elective credits (see program note 4)

# Physical Education and Kinesiology

## *Chair*

Anna H. Lathrop

## *Professors*

Robert Kerr, Michael Plyley

## *Associate Professors*

Lorne J. Adams, Maureen Connolly,  
Paulette Côté-Laurence, Panagiota  
Klentrou, Anna H. Lathrop, Nancy R.  
Murray, Danny Rosenberg

## *Assistant Professors*

Susan L. Forbes, Gail Frost, David  
Gabriel, Michel Ladouceur, Kelly L.  
Lockwood, James L. Mandigo, Sandra J.  
Peters, Ian Ritchie, Diane Stevens, Philip  
J. Sullivan

## *Lecturer*

Christian Duval

## *Movement Specialist*

Janet Westbury

## *Adjunct Professor*

Joseph P. Kenny

## *Undergraduate Co-ordinator*

Stephanie Brooks

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## General Information

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### *Administrative Assistant*

Susan Gale-Wolbert

905-688-5550, extension 4358

Physical Education 283

<http://arnie.pec.brocku.ca/~pbed/>

The Department of Physical Education and Kinesiology offers a 20 credit BPhEd degree, BPhEd (honours)/BEd degree and a BKin degree. Within the BPhEd degree students may choose one of three streams. Core courses in these programs reflect national accreditation standards established by the Canadian Council of University Physical Education and

Kinesiology Administrators. The Department of Physical Education and Kinesiology has applied for accreditation by this council.

The requirement for graduation with a BPhEd (honours) and Bkin (honours) degree is a minimum 70 percent major average and a minimum 60 percent non-major average. The requirement for graduation with a BPhEd with a Major and a BKin with a Major degree is a minimum 60 percent major average and a 60 percent minimum overall average.

Successful graduates of the concurrent BPhEd (honours)/BEd degree will receive an honours Bachelor of Physical Education degree and a Bachelor of Education degree. As well, the concurrent BPhEd (honours)/BEd degree core courses reflect national accreditation standards established by the Canadian Council of University Physical Education and Kinesiology Administrators. The Department of Physical Education and Kinesiology has applied for accreditation by this council. 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 grades K - 6.

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.

The BKin degree 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.

*Please consult the relevant entries for a listing of courses and program requirements.*

# Physics

## Chair

Bozidar Mitrovic

## Professors Emeriti

John Black, Colin A. Plint

## Professors

Shyamal K. Bose, Bozidar Mitrovic,  
Fereidoon S. Razavi, Stuart M. Rothstein

## Associate Professors

Maureen Reedyk, Edward Sternin

## Assistant Professor

David A. Crandles, Mesfin A.  
Woldeyohannes

## 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

Alice Witvoet

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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 a 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 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).

Admission to the 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 six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by the attainment of the minimum requirement. The Co-op Programs Office and the Faculty of Mathematics and Science will facilitate admission decisions.

Students admitted to the Physics Co-op program must follow the Physics Co-op program schedule. Failure to adhere to the schedule may result in removal from the Physics Co-op program. 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. PHYS 3P20 is offered in odd years and PHYS 3P92 is offered in even years.
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 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 1F25 or 1F90 (preferred)
- 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
- 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 4F50, 4F90, 4P30, 4P41 and 4P70
- one of PHYS 2P92, 3P20, 3P92, 3P93, 4P61, 4P71 (see program note 2)
- one elective credit

## PHYSICS

### Physics Co-op (honours only)

Students admitted to the Co-op program must follow the program schedule as listed below. Failure to adhere to the schedule may result in removal from the Physics Co-op program.

#### Year 1

- PHYS 1F25 or 1F90
- CHEM 1F92
- COSC 1P93
- MATH 1P01, 1P02 and 1P12
- one Humanities context credit or Social Science context credit

#### Year 2

- PHYS 2P20, 2P31, 2P50, 2P51 and 2P92
- MATH 1P98 and 2F05
- 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 and 3P70
- MATH 3P08
- PHYS 3P20 or one-half elective credit (see program note 2)

##### Winter Term:

- PHYS 0N02

#### Spring/Summer Sessions:

- PHYS 0N00 (optional)

#### Year 4

##### Fall Term:

- PHYS 0N03

##### Winter Term:

- PHYS 3P36, 3P41 and 3P91
- MATH 3P09
- PHYS 3P20 (one-half elective credit if taken in year 3)

#### Spring/Summer Sessions:

- PHYS 4F90 and 4F91

#### Year 5

##### Fall Term:

- PHYS 3P92 or one-half elective credit (see program note 2)
- PHYS 3P93, 4P51 and 4P70

- one of PHYS 4P30, 4P41, one-half elective credit

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### BSc with a Major Program

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#### Year 1

- PHYS 1F25 or 1F90 (preferred)
- 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
- 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 2P92, 3P20, 3P92, 3P93, 4P61, 4P71 (see program note 2)
- 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/BEEd

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The Faculty of Mathematics and Science and the Faculty of Education co-operate in offering a concurrent pass BSc/BEEd program for students interested in teaching mathematics or science at the elementary level to grade 8. Refer to the Education-Concurrent BSc/BEEd

Program listing for additional information.

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### Combined Major Programs

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#### Physics and Biological Sciences

##### Honours

#### Year 1

- PHYS 1F20, 1F25 or 1F90 (preferred)
- BIOL 1F90
- MATH 1P01 and 1P02
- one Humanities context credit
- one Social Science context credit

#### Year 2

- PHYS 2P20 and 2P50
- BIOL 2F01
- one credit from BIOL 2P05, 2P92, 2P93, 2P96, 2P98, 2Q04
- CHEM 1F92
- MATH 2F05

#### 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 PHYS or BIOL 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.

**Physics and Computer Science**

3(*alpha*)90 or above  
 •one elective credit

**Honours***Year 1*

- PHYS 1F20 or 1F25 or 1F90 (preferred)
- COSC 1P02 and 1P03
- MATH 1P01, 1P02, 1P66, and 1P67
- one Social Science context credit

*Year 2*

- PHYS 2P20, 2P31, 2P50 and 2P51
- COSC 1P12 and 2P03
- MATH 2F05
- one Humanities context credit

*Year 3*

- Two credits from MATH 3P08, 3P09, PHYS 3P20, 3P35, 3P36, 3P41, 3P70
- COSC 2P13, 2P32, 2P50, 2P90
- MATH 1P12
- one-half elective credit

*Year 4*

- Two credits from PHYS 4F50, 4F90, 4P41, 4P70
- COSC 3F00
- two COSC credits numbered 3(*alpha*)90 or above

**Physics and Mathematics****Honours***Year 1*

- PHYS 1F20 or 1F25 or 1F90 (preferred)
- COSC 1P02
- MATH 1P01, 1P02 and 1P12
- one Humanities context credit
- one Social Science context credit

*Year 2*

- PHYS 2P20, 2P31, 2P50 and 2P51
- MATH 1P40, 2P12 and 2P81
- 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 4F50
- one credit from PHYS 4P30, 4P41, 4P70
- PHYS 4F90 and 4F91 or MATH 3P04, 3P12 and one MATH credit numbered

**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.

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**Master of Science (MSc) Program**


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The department offers an MSc program in condensed matter physics. Experimental and theoretical studies are provided. 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.

# Political Science

## Chair

Leah Bradshaw

## Undergraduate Program Adviser

Daniel Madar

## Professors Emeriti

Victor M. Fic, William H. N. Hull,  
William A. Matheson, J. Patrick Sewell

## Professors

Carl Baar (on leave), Gerald E. Dirks,  
W. D. Kenneth Kernaghan, David T.  
Siegel, Garth Stevenson

## Associate Professors

Nicolas Baxter-Moore, Leah Bradshaw,  
Charles Burton, Terrance G. Carroll,  
Juris Dreifelds, Pierre Lizée, Daniel  
Madar, Ingrid Makus, William Mathie

## Assistant Professors

James B. Kelly

## Seminar Co-ordinator

Jacqueline Dix

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## General Information

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### Administrative Assistant

Christine Schacht

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<http://www.brocku.ca/politicalscience/>

Politics affects everyone. It is through politics that the future of the world we inhabit is shaped. Aristotle called politics the master science because he recognized how wide and pervasive politics is. The interests of political scientists are diverse. They may include conflict at city hall or in the courtroom; the arguments and processes through which our national existence might be preserved; the collapse of Communism and the struggle to establish new political arrangements in its place; the role of pressure groups in shaping public policy; electoral reform; the control of civil servants; the rule of law among nations; the place of moral

principle and national interest in the conduct of foreign policy; or how far any citizen might have the right or duty to disobey an unjust law. Political Science offers us the opportunity to become freer human beings and citizens because, whatever the subject of our immediate inquiry, the focus is always upon the ideas, institutions and processes that shape our lives.

The BA honours program provides students with the opportunity for a more intensive examination of issues in the field.

Political Science may be combined at the honours or pass level with other disciplines, the choice depending upon the student's interests and capabilities. As well, it is possible, within the departmental offerings, to arrange a thematic program of study around a selection of courses built to suit the student's particular interests.

All students in Political Science especially those proceeding to graduate studies or to a career in the public service, are encouraged to become proficient in a language other than English, normally French. Students who develop interests in a particular geographical area are urged to select related courses in history, language and literature. MATH 1F92 provides a sound background in those skills often employed in modern social science research. Questions about the Political Science program should be directed to the Undergraduate Program Adviser.

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## Program Notes

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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.

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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## Political Science Subfields

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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, 3P15, 3P16, 3P17, 3P18,  
3P28

POLI 4P07, 4P14, 4P15, 4P19, 4P71,  
4P75, 4V10-4V19, 4V60-4V69

### Comparative Politics

POLI 2F30\*, 2P21, 2P42, 2P47, 2P94,  
2P95, 2P97, 2V40-2V49

POLI 3P43, 3P44, 3P45, 3P72

POLI 4P32, 4P34, 4P38, 4P39, 4P47,  
4P73, 4V30-4V39

### International Politics

POLI 2F20\*, 2P21, 2P47

POLI 3P21, 3P26, 3P28

POLI 4P20, 4P21, 4P22, 4P26, 4P27,  
4P72, 4V20-4V29

### Political Theory

POLI 2P91\*, 2P92\*, 2P93

POLI 3P04, 3P05, 3P07, 3V00-3V09

POLI 4P01, 4P02, 4P03, 4P04, 4P05,  
4P06, 4P07, 4P70, 4V00-4V09

### Public Administration

POLI 2F98\*, 2P62

POLI 3P11, 3P50, 3P52, 3P65POLI  
4P50, 4P52, 4P54, 4P74, 4P75, 4V50-  
4V59

\*recommended for students intending to take other courses in this field in years 3 and 4.

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## Honours Programs

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*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

*Year 1*

- POLI 1F90 and 1P50
- PSYC 1F90 or SOCI 1F90
- WRIT 1P80
- one humanities context elective
- one science context elective

*Year 2*

- POLI 2P80 and 2F98
- 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 POLI 4P52
- one and one-half POLI credits numbered 2(*alpha*)90 or above (POLI 3P18 and 3P65 strongly recommended)
- one POLI credit numbered 4(*alpha*)00 or above (POLI 4P01 and 4P19 strongly recommended)
- one elective credit

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## International Political Economy

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Consult International Political Economy entry for a listing of program requirements.

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## Pass Program

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- 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)

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## Combined Major Programs

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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)

## POLITICAL SCIENCE

### 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 Programs

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The Political Science department also 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 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.

A certificate is awarded upon completion of the five credits with a minimum overall average of 70 percent.

See "Certificate Requirements" under Academic Regulations.

### Certificate in Public Administration

The program is of interest to people already employed in the public sector environment and wanting to embark on a program of part-time studies.

- One POLI credit numbered 1(alpha)90 to 1(alpha)99
- POLI 2F12 and 4P52
- POLI 2F98 or POLI 3P50 and 3P65
- POLI 4P50 or 4P54
- 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 program 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.

- 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

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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.

Students may earn a Concentration in Public Law by successfully completing the courses listed below together with 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 2F00, 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.



## Popular Culture

*This program is co-ordinated by the Department of Communications, Popular Culture and Film.*

### Chair

Jim Leach

### Undergraduate Program Adviser

Russell Johnston

### Director, Co-operative Programs

Cindy Dunne

## General Information

### Administrative Assistant

Bridget Cahill

905-688-5550, extension 4290

Academic North 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.

Popular Culture is a series of critical and historical courses which examines popular culture and its relation to folk, mass and high culture. Popular Culture is studied in its wide variety of forms (including film, television, literature, music and advertising) and its economic, political and historical contexts.

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).

Admission to the Popular Culture Co-op program is on the basis of marks, a review of personal resumes and employer availability. An interview may be required. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Brock University Co-op Programs Office will facilitate admission decisions.

Students admitted to the Popular Culture Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Popular Culture Co-op program. 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.

## Program Notes

1. PCUL 4F99 is strongly recommended for honours students intending to continue their studies at the graduate level. Students may not register for this course without permission of the Undergraduate Program Adviser, who should be consulted before June 30 of the previous year.

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

### Year 1

- COMM 1F90
- FILM 1F94
- one Science context credit
- one Social Science context credit
- one elective credit

### Year 2

- PCUL 2P20, 2P21 and 2P94
- COMM 2P15
- one credit from PCUL 1F00, 2F92, 2P22, 2P70, COMM 2F50, DRAM 2P91, ENGL 2P10, 2P11, FILM 2P56, GEOG 2P06, WISE 2P97
- two elective credits

### Year 3

- PCUL 3P20, 3P21 and 3P96
- PCUL 3P16 or 3P17
- one credit from PCUL 1F00, 2F92, 2P22, 2P70, 3P16, 3P17, 3P92, DRAM 2P91, ENGL 2P10, 2P11, FILM 3P56, 3P93, 3P95, 3P97, 3P98, GEOG 2P06, WISE 2P97
- two elective credits

### Year 4

- PCUL 4P17, 4P30 and 4P31
- two credits from PCUL 3P92, 4F80, 4F99, 4P23, 4P55, FILM 3P93, 3P95, 3P97, 3P98
- one and one-half elective credits

## Popular Culture Co-op (honours only)

Students admitted to the Popular Culture Co-op stream must follow the program schedule as listed below. Failure to adhere may result in removal from the program.

### Year 1

- COMM 1F90
- FILM 1F94
- one Social Science context credit
- one Science context credit
- one elective credit

## POPULAR CULTURE

Spring/Summer Sessions:

- COMM 2P20 and 2P21
- two elective credits (MGMT 1P90 and 1P91 strongly recommended)

*Year 2*

- PCUL 0N90, 2P94, 3P20 and 3P21
- PCUL 3P17 (or one-half elective credit if PCUL 3P16 is taken in year 3)
- COMM 2P15
- one and one-half credit from PCUL 1F00, 2F92, 2P22, 2P70, 3P16, 3P17, COMM 2F50, DRAM 2P91, ENGL 2P10, 2P11, FILM 2P56, 3P56, 3P93, 3P95, GEOG 2P06, WISE 2P97
- one elective credit (MKTG 2P51 and 2P52 strongly recommended)

Spring/Summer Sessions:

- PCUL 0N01

*Year 3*

Fall Term:

- PCUL 3P96, 3P16 (or one-half elective credit if PCUL 3P17 was taken in year 2) and 4P30
- one of PCUL 2P22, 2P70, 3P16, 3P17, ENGL 2P10, 2P11, FILM 3P56, 3P93, 3P95, 3P97, 3P98, GEOG 2P06, WISE 2P97
- one of PCUL 3P92, 4P23, 4P55, FILM 3P93, 3P95, 3P97, 3P98, HIST 4V24

Winter Term:

- PCUL 0N02

Spring/Summer Sessions:

- two elective credits

*Year 4*

Fall Term:

- PCUL 0N03

Winter Term:

- PCUL 4P17 and 4P31
- one and one-half credits from PCUL 3P56, 3P92, 4P23, 4P55, FILM 3P93, 3P95, 3P97, 3P98, HIST 4V24

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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

- PCUL 2P20, 2P21, 2P94, 3P20, 3P21, 3P96, 4P30 and 4P31
- COMM 1F90
- FILM 1F94
- two credits from PCUL 1F00, 2F92, 2P22, 2P70, 3P16, 3P17, 3P92, 4P23, 4P55, 4F80, 4F99, COMM 2F50, DRAM 2P91, ENGL 2P10, 2P11, FILM 2P56, 3P56, 3P93, 3P95, 3P97, 3P98, GEOG 2P06, WISE 2P97

Pass

- PCUL 2P20, 2P21, 2P94, 3P20, 3P21 and 3P96
- COMM 1F90
- FILM 1F94

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## Minor in 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.

## Psychology

### Chair

Sidney J. Segalowitz

### Undergraduate Program Officer

Carolyn Hafer

### Professors Emeriti

John J. Lavery, Edward W. G.\*Pomeroy

### Professors

Jack R. Adams-Webber, Kathryn Belicki, John G. Benjafield (on leave), David DiBartista, Stefan M. Brudzynski, Harry T. Hunt, Robert D. Ogilvie (on leave), Joan M. Preston, Linda Rose-Krasnor, Stanley W. Sadava, Sidney J. Segalowitz, Paul D. Tyson, William G. Webster

### Associate Professors

Karen Arnell, Anthony F. Bogaert, Nancy DeCourville, Jane Dywan, Dawn E. Good, Carolyn Hafer, Darla MacLean, John Mitterer, Robert Nadon, Peter Ramm (on leave), Teena Willoughby

### Assistant Professors

Michael Ashton, H. Willard Bradley, Kimberly Cote, Andrew V. Dane, Cameron Muir

### Adjunct Professors

Michael Alexander, Sherrie Bieman-Copland, Nancy Johnston, Tomoka Takeuchi, Barry Willer

### Coordinator

Jo Stewart

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## General Information

### Administrative Assistants

Joanne Boekestyn, Linda Pidduck

905-688-5550, extensions 3542, 3543

Mackenzie Chown B326

<http://www.psyg.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. All of the 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 [www.brocku.ca/registrar/forms/index.html](http://www.brocku.ca/registrar/forms/index.html). The Department believes that a broadly based liberal arts 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) must be admitted to year 4 after completing 15 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* for more information. This manual is available in the bookstore and in the library.

### 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).

Admission to the Psychology Co-op program is on the basis of marks, a

personal interview and employer availability. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Brock University Co-op Programs Office will facilitate admission decisions.

Students admitted to the Psychology Co-op program must follow the Psychology Co-op program schedule. Failure to adhere to the schedule may result in removal from the Psychology Co-op program. 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.

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## Program Notes

- Honours 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 at least five. Single BA with a Major students must select from at least three. Honours students intending to pursue graduate studies in Psychology are also advised to take PSYC 3F40 and PSYC 4F91.

- Students enrolled in PSYC 4F91 are

## PSYCHOLOGY

encouraged to enrol concurrently in PSYC 4P94.

3. Admissions 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. Work term in Spring of Year 3 is optional if students elect to complete third Work Term in spring of Year 4. If the work term is completed in the Spring of Year 3, it is optional in the Spring of Year 4.

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.

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### Content Areas

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*Applied, Clinical and Health Psychology*  
PSYC 2P91  
PSYC 3F20, 3P34, 3P36, 3P95  
PSYC 4F50, 4P21, 4P31, 4P32, 4P45, 4V80-4V82

*Cognition*  
PSYC 2F20, 2F91, 2F97, 2P98, 2P99  
PSYC 3P54, 3P55, 3P88, 3Q91, 3Q92  
PSYC 4P22, 4P47, 4V83-4V85

*Neuropsychology, Physiological, and Comparative Psychology*  
PSYC 2F36, 2F45, 2F91  
PSYC 3F46, 3F91, 3P45, 3P47, 3P68, 3P92, 3P97, 3P98, 3P99, 3Q97, 3Q98  
PSYC 4P56, 4V86-4V88

*Development*  
PSYC 2F12  
PSYC 3P11, 3P18, 3P23, 3P27, 3P74, 3P93, 3P94, 3Q93, 3Q94  
PSYC 4F11, 4P56, 4V89-4V91

*Methodology*  
PSYC 4P48, 4V92-4V94

*Personality and Social Psychology*  
PSYC 2F25, 2F30, 2P93, 2P94, 2P96  
PSYC 3F10, 3F97, 3P33, 3P36, 3P80, 3Q90, 3Q95, 3Q96, 3Q99  
PSYC 4P44, 4V95-4V97

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### Honours Programs

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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  
•one elective credit

*Year 3*  
•PSYC 3P39  
•two and one-half PSYC credits numbered 2(alpha)90 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  
•one elective credit

*Year 3 Fall Term, Year 4 Winter Term and Year 5:*

•PSYC 3P39, 3P41, 3P42, PSYC 4F91, PSYC 4P92 and 4P93 (see program note 2)  
•one and one-half PSYC credits numbered 2(alpha)90 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 (see program note 5)

*Year 4*  
Fall Term:  
•PSYC 0N03 (see program note 5)

Spring/Summer Sessions:  
•PSYC 0N00 (optional) (see program note 5)

**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  
•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 2(alpha)90 or above  
•one PSYC credit numbered 3(alpha)90 or above  
•four elective credits

*Year 3*  
Winter Term:  
•PSYC 0N01

Spring Term:  
•PSYC 0N02 (see program note 5)

*Year 4*

Fall Term:

- PSYC 0N03 (see program note 5)

Spring/Summer Sessions:

- PSYC 0N00 (optional) (see program note 5)

**BA with a Major Program**

*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
- one elective credit

*Year 3*

- PSYC 3P30
- two and one-half PSYC credits numbered 2(alpha)90 to 3(alpha)99 (see program note 1)
- two elective credits

*Year 4*

- PSYC 4P92
- two and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99 (see program note 1)
- two elective credits

**BA with a 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
- one elective credit

*Year 3 Fall term, Year 4 Winter term and Year 5*

- PSYC 3P30 and 4P92
- two and one-half PSYC credits numbered

2(alpha)90 or above

- 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 (see program note 5)

*Year 4*

Fall Term:

- PSYC 0N03 (see program note 5)

Spring/Summer Sessions:

- PSYC 0N00 (optional) (see program note 5)

**Policing and Criminal Justice**

*Year 1*

- PSYC 1F90
- POLI 1F90 or SOCI 1F90
- POLI 1P50
- WRIT 1P80
- one Humanities context credit
- one Science context credit

*Year 2*

- PSYC 2F23, 2F25 and 2F30
- one PSYC credit numbered 2(alpha)90 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 2(alpha)90-3(alpha)99
- two and one-half PSYC credits numbered 3(alpha)90 to 4(alpha)99

**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 2(alpha)90 to 3(alpha)99
- two elective credits

**Combined Major Programs**

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 Coordinator to avoid duplication of courses.

**Honours**

- PSYC 1F90, 2F23, 3P39 and 4P92
- two credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45
- one and one-half PSYC credits numbered 2(alpha)90 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 a Major**

- PSYC 1F90, 2F23 and 3P30
- two credits from PSYC 2F12, 2F20, 2F25, 2F30, 2F36, 2F45
- one and one-half PSYC credits numbered 2(alpha)90 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 2(alpha)90 to 3(alpha)99

## PSYCHOLOGY

### **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.

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### **Graduate (MA, PhD) Programs**

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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.

# Recreation and Leisure Studies

*Chair*

David A. Fennell

*Professor*

Peggy Hutchison

*Associate Professors*

David A. Fennell, Ann Marie Guilmette,  
George S. Nogradi, David J. Telfer, John  
K. Yardley

*Assistant Professors*

Susan M. Arai, Atsuko Hashimoto, Paula  
Johnson Tew

*Lecturers*

Ryan Plummer, Erin K. Sharpe

*Undergraduate Program Adviser*

Teresa Sweitzer

---

## General Information

*Administrative Assistant*

Sandra Notar

905-688-5550, extension 3259

Physical Education 238

<http://www.brocku.ca/recandleisure/>

The Department of Recreation and Leisure Studies offers a four-year honours and 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, entrepreneur) 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 concentrates on recreation and the natural environment. It encompasses ecotourism, resource management, adventure, parks management, heritage interpretation, outdoor education, leadership and wilderness pursuits. This program prepares students to facilitate outdoor experiences following a conservation ethic.

The Inclusive Recreation stream focusses on issues related to building inclusive communities and prepares students to work with marginalized individuals in the community (e.g., recent immigrants, people who experience poverty, people with disabilities).

The Therapeutic Recreation stream focusses on the therapeutic use of leisure to prevent disabilities and illnesses and improve individuals' functional abilities. This program prepares students to work in clinical settings (e.g., nursing homes, hospitals, rehabilitation centres).

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## 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 1P92 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 RECL 1P92 and 1P96 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.

5. RECL 3F92, 3P12, 3P14, 3P42 or 3P43 are recommended.

6. RECL 3F92, 3P04, 3P12, 3P14 or 3P23 are recommended.

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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## Honours Program

### General

*Year 1*

- RECL 1P91
- RECL 1P92 and 1P96
- RECL 1P99 or COSC 1P95
- WRIT 1P80
- two and one-half elective credits (see program notes 1 and 2)

*Year 2*

- RECL 2P00, 2P07, 2P10 and 2P11
- three elective credits (see program notes 2 and 3)

*Year 3*

- RECL 3P01 and 3P05
- RECL 3Q07 or 3Q17
- one and one-half RECL credits numbered 2(alpha)90 or above
- two elective credits (see program notes 2 and 3)

*Year 4*

- RECL 4F05, 4F07, 4P01 and 4P11
- two elective credits

## RECREATION AND LEISURE STUDIES

### Outdoor Recreation (honours only)

#### Year 1

- RECL 1P91 and 1P96
- RECL 1P99 or COSC 1P95
- ENVI 1P90
- GEOG 1F90 or 1F91
- WRIT 1P80
- one and one-half elective credits (see program notes 1 and 2)

#### Year 2

- RECL 2P00, 2P07, 2P11 and 2P16
- ENVI 2P28
- one-half RECL credit
- two elective credits (see program notes 2 and 3)

#### Year 3

- RECL 3P01 and 3P05
- RECL 3Q07 or 3Q17
- one and one-half credits from RECL 2P96, 3P06, 3P26, 3P36, 3P66
- two elective credits (see program notes 3 and 4)

#### Year 4

- RECL 4F05, 4F07, 4P01, 4P06 and 4P16
- one and one-half elective credits

### Inclusive and Therapeutic Recreation (honours only)

#### Inclusive Recreation stream

##### Year 1

- RECL 1P91 and 1P92
- RECL 1P99 or COSC 1P95
- WRIT 1P80
- three elective credits (see program notes 1 and 2)

##### Year 2

- RECL 2P00, 2P07, 2P11 and 2P32
- one RECL credit
- two elective credits (see program notes 2 and 3)

##### Year 3

- RECL 3P01, 3P02, 3P05, 3P21 and 3P22
- RECL 3Q07 or 3Q17
- one RECL credit (see program note 5)
- one elective credit (see program note 3)

#### Year 4

- RECL 4F05, 4F07, 4P01 and 4P02
- one RECL credit (see program note 5)
- one elective credit

#### Therapeutic Recreation stream

##### Year 1

- RECL 1P91 and 1P92
- RECL 1P99 or COSC 1P95
- WRIT 1P80
- three elective credits (see program notes 1 and 2)

##### Year 2

- RECL 2P00, 2P07, 2P11 and 2P42
- one RECL credit
- two elective credits (see program notes 2 and 3)

##### Year 3

- RECL 3P01, 3P02, 3P05, 3P22 and 3P32
- RECL 3Q07 or 3Q17
- PEKN 2P04
- one RECL credit (see program note 6)
- one-half elective credit (see program note 3)

##### Year 4

- RECL 4F05, 4F07, 4P01 and 4P02
- one RECL credit (see program note 6)
- one elective credit

#### Pass Program

##### Year 1

- RECL 1P91
- RECL 1P92 and 1P96
- RECL 1P99 or COSC 1P95
- WRIT 1P80
- two and one-half elective credits (see program notes 1 and 2)

##### Year 2

- RECL 2P00, 2P07, 2P10 and 2P11
- three elective credits (see program notes 2 and 3)

#### Year 3

- RECL 3P01 and 3P05
- two RECL credits numbered 2(alpha)90 or above
- two elective credits (see program notes 3 and 4)

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### Brock/Mohawk College, Brock/Centennial College and Brock/Humber College Articulation Agreements

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Mohawk College, Centennial College and Humber College Recreation and Leisure Services Program Diploma graduates who have achieved a minimum 75 percent overall average will be granted up to six 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 overall average, may complete their Recreation and Leisure Services Diploma at Mohawk College, Centennial College or Humber College in two semesters as full-time students.



# Sociology

## Chair

June Corman

## Undergraduate Co-ordinator

Ann Duffy

## Professors

Susan M. Clark (on leave), Ann Duffy,  
Daniel G. Glenday, Murray E. G. Smith

## Associate Professors

Judith C. Blackwell, June S. Corman, Jane  
Helleiner, John S. Sorenson, Walter  
Watson (on leave)

## Assistant Professors

Kate Bezanson, Kimberley N. Varma,  
Lloyd Gordon Ward (on leave)

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## General Information

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*Administrative Assistants,*  
Jill DeBon, Linda Landry

905-688-5550, extension 3455  
Academic Building South, 4th Floor  
<http://paradigm.soci.brocku.ca/>

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 at Brock 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. The department is also committed 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, 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.

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.

### Collaborative Study in Policing and Criminal Justice

The Collaborative Studies in Policing and Criminal Justice program combines training in policing and criminal justice with an education in a chosen academic discipline, which may be either Political Science, Psychology or Sociology. This is a four-year program leading to a 4 year BA with Major in Sociology involving courses offered through Brock and Niagara College of Applied Arts and Technology.

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. Students normally enter the program at the start of Year 2 and should apply for admission at the end of Year 1. In Year 3 courses are taken at Niagara College. Enrolment is limited.

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## Program Notes

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1. All Pass degree program students are advised to take WRIT 1P80, 1P81 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 Department 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.

## SOCIOLOGY

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

- 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 the three streams (see program notes 3 and 4):

#### Thesis option:

- SOCI 4F90 and 4P01
- one half credit from SOCI 4V90-4V99
- one SOCI credit numbered 3(*alpha*)90 or above
- two elective credits

#### Practicum option:

- SOCI 4F91
- two SOCI credits numbered 3(*alpha*)90 or above
- two elective credits

#### Course Work option:

- One of SOCI 3P99, 4P02, 4P10, 4P11, 4P15, 4P16, 4P70
- two and one-half SOCI credits numbered 3(*alpha*)90 or above (see program note 7)
- two elective credits

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### Policing and Criminal Justice Program

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#### Year 1

- SOCI 1F90
- POLI 1F90 or PSYC 1F90
- POLI 1P50
- WRIT 1P80
- one humanities context credit
- one science context credit

#### Year 2

- SOCI 2P10, 2P11, 2P12, 2P13, 2P61, 2P62, 3P00, 3P01, 3P33 and 3P62

#### Year 3

- Taken at Niagara College

#### Year 4

- SOCI 3P12 and 4F91
- one-half SOCI credit numbered 2(*alpha*)90 or above
- two SOCI credits numbered 3(*alpha*)90 or above
- one elective credit

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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 Programs

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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 three streams (see program notes 3 and 4)

#### Thesis option:

- SOCI 4F90 and 4P01
- one half credit from SOCI 4V90 - 4V99
- two credits from the co-major discipline (see program note 5)
- one elective credit (see program note 8)

#### Practicum option:

- SOCI 4F91
- one SOCI credit numbered 3(*alpha*)90 or above
- two credits from the co-major discipline (see program note 5)
- one elective credit (see program note 8)

#### Course Work option:

- One of SOCI 3P99, 4P02, 4P10, 4P11, 4P15, 4P16, 4P70
- one and one-half SOCI credits numbered 3(*alpha*)90 or above
- 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.

**Certificate in Criminology and Moral Regulation**

The Sociology department also offers a program leading to a Certificate in Criminology and Moral Regulation. This program provides an overview for people interested in criminology and moral regulation 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.

A certificate is awarded upon completion of the five credits with a minimum 70 percent overall average.

See "Certificate Requirements" under *Academic Regulations*.

- SOCI 1F90, 2P33, 2P61 and 2P62
- one credit from SOCI 3P33, 3P61, 3P62
- one of SOCI 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.

**Concentration Programs**

**Concentration in Criminology and Moral Regulation**

The Criminology and Moral Regulation concentration combines courses from several areas to provide a broad liberal arts background with specialization in areas of criminology: theory and methods, crime and criminals, criminal justice and law and society, punishment and youth justice.

Students may earn a Concentration in Criminology and Moral Regulation by successfully completing the courses listed below together with the requirements from a BA (honours) in Sociology.

- SOCI 1F90, 2P11, 2P33, 2P61 and 2P62
- one credit from SOCI 3P33, 3P61, 3P62
- one credit from SOCI 4P33, 4P61, 4P62

**Related Courses:**

- POLI 1P91
- POLI 3P18
- POLI 4P19, 4P34
- PSYC 2P44
- SOCI 2P71
- SOCI 3P46, 3P47, 3P51, 3P83

**Concentration in Social Justice and Equity**

The concentration in Social Justice and Equity combines courses from several areas to provide 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 courses listed below together with the requirements for a BA (honours) in Sociology.

- SOCI 1F90 and 2P11
- one credit from SOCI 2P32, 2P34, 2P71, 2P73, 2P85, 2P86, 2P90, 2P96, 2P99
- one and one-half credits from SOCI 3P30, 3P33, 3P36, 3P46, 3P47, 3P51, 3P66
- one credit from SOCI 4P32, 4P33, 4P41, 4P51, 4P70

**Minor in Criminology and Moral Regulation**

Students in other disciplines can obtain a minor in Criminology and Moral Regulation 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
- one of SOCI 2P71, 3P46, 3P47, 3P51, 3P83
- one credit from SOCI 4P33, 4P61, 4P62

# Spanish

*This program is co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

## Chair

H. Schutz  
TBA (as of July 1, 2002)

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## General Information

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*Administrative Assistant*  
Hajnalka Bela-Zavodni

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 coverage 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 may be acceptable for credit toward a degree. Students are encouraged to participate in the study program in Latin America.

### Third-year in Cuba

Students have the opportunity to study during their third year at the University of Matanzas. 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.

Students should consult with the Department about other opportunities for intensive study abroad courses at different levels in Spain (Alcala de Henares) or Latin America (Oaxaca, Mexico).

### Latin American Study Abroad

This annual program, co-sponsored with History, offers students an opportunity to study for the month of May in Latin America (e.g., Mexico, Guatemala, Cuba, Costa Rica). 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 (HIST) 2V90-2V99. See the departmental website for more details.

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## Program Notes

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1. Students with 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 OAC standing or equivalent in the language take SPAN 1F00.
3. SPAN 1F00 is an introductory language course. Students who register in this course must bring their official high school transcript to the department as proof of their level of competency 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 the languages concerned.
6. SPAN 1F00, 1F90 and 2F00 constitute a sequence. Once credit has been obtained in one of these courses, students are not allowed to take for credit a course in the 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. 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 and combined honours programs may include no more than two credits in such courses; combined pass programs may include no more than one and one-half credits in such courses.

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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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 2F00
- 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*

- Four SPAN or MLLC credits numbered 3(*alpha*)90 or above or equivalent (see program note 7)
- 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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**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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**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 2F00
- 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

# Sport Management

## *Chair*

Hilary Findlay

## *Associate Professor*

Hilary Findlay, Joanne MacLean, Lucie Thibault

## *Assistant Professors*

Laura Cousens, Julie Stevens

## *Lecturer*

Cheri Bradish

## *Undergraduate Co-ordinator*

Stephanie Brooks

## *Work Study Co-ordinator*

Cheryl Mallen

## *Director, Co-operative Programs*

Cindy Dunne

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## General Information

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### *Administrative Assistant*

Charlene MacLellan

905-688-5550, extension 4989

Physical Education 290

<http://larnie.pec.brocku.ca/spmal>

The Department of Sport Management offers a four-year (honours) program and a three-year program leading to a Bachelor of Sport Management. A Co-op option is available as an honours program.

Programs are designed to meet the needs of a rapidly expanding sport industry and incorporate a series of fieldwork experiences for students.

Core course offerings in Sport Management reflect curriculum and content areas that comply with the accreditation standards established by the joint task force of the North American Society of Sport Management (NASSM) and the National Association for Sport and Physical Education (NASPE) as well as the needs of the sport industry. 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 and private organizations.

Students must make a written application to be admitted to the Sport Management Honours Program and have achieved a minimum 70 percent major average and a minimum 60 percent in the remaining credits.

The Sport Management Co-op program combines academic and work terms over a four and one-half 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, Co-op students are assessed an annual administrative fee (see the Schedule of Fees).

Admission to the Sport Management Co-op program is on the basis of a combination of marks, a review of personal resumes, a personal interview and the completion of an application form. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Co-op Programs Office and the Faculty of Applied Health Sciences will facilitate admission decisions.

Students admitted to the Sport Management Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Sport Management Co-op program. 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 Sport Management Co-op program.

The Sport Management 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. A minimum 60 percent in SPMA 1F90, MGMT 1P91, 1P92, and SPMA 1P99 or COSC 1P95 is required to continue as a major in Sport Management.

2. Students may choose to take SPMA 1P99 or COSC 1P95 in year 2. If students choose this option, then an additional one-half elective credit must be taken in year 1.

3. Students may choose to take ENTR 2P51 in year 3. If students choose this option, then an additional one-half elective credit must be taken in year 2.

4. 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.

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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### Sport Management

#### *Year 1*

- SPMA 1F90
- SPMA 1P99 or COSC 1P95 (see program note 2)
- MGMT 1P91 and 1P92
- one Humanities context credit

- one Science context credit or one Social Science context credit
- one-half elective credit

*Year 2*

- SPMA 2P05, 2P06, 2P07, 2P96, and 2P97
- ENTR 2P51
- the Science context credit or Social Science context credit not taken in year 1
- one elective credit

*Year 3*

- SPMA 3P06, 3P08, 3P21, 3P95 and 3P97
- SPMA 3P07 or 3P17
- two elective credits

*Year 4*

- SPMA 4F02, 4P04 and 4P05
- one of SPMA 4P08, 4P09, 4P12
- one credit from SPMA 4P06, 4P07, 4P15, 4V90 - 4V99
- one and one-half elective credits

**Sport Management Co-op (honours only)***Year 1*

- SPMA 1F90
- SPMA 1P99, or COSC 1P95 (see program note 2)
- MGMT 1P91 and 1P92
- one Humanities context credit
- one Science context credit or one Social Science context credit
- one-half elective credit

*Year 2*

- SPMA 0N90, 2P05, 2P06, 2P07, 2P96 and 2P97
- ENTR 2P51 (see program note 3)
- the Science context credit or Social Science context credit not taken in year 1
- one elective credit

## Summer Term:

- SPMA 0N01

*Year 3*

## Fall and Spring/Summer Terms

- SPMA 3P06, 3P08, 3P21, 3P95, 3P97
- SPMA 3P07 or 3P17
- two elective credits

*Year 3*

- Winter Term:
- SPMA 0N02

*Year 4*

- Fall Term:
- SPMA 0N03

## Winter and Spring/Summer Terms

- SPMA 4P04 and 4P05
- one of SPMA 4P08, 4P09, 4P12
- one of SPMA 4P06, 4P07, 4V90-4V99
- three 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.

# Tourism Studies

*This program is co-ordinated by the Department of Recreation and Leisure Studies.*

*Co-ordinator*  
David J. Telfer

*Undergraduate Program Adviser*  
Teresa Sweitzer

*Participating Faculty*  
Sue Arai (Recreation and Leisure Studies), Corrado Federici (Modern Languages, Literatures and Cultures), David A. Fennell (Recreation and Leisure Studies), Dan Glenday (Sociology), Anne Marie Guilmette (Recreation and Leisure Studies), Atsuko Hashimoto (Recreation and Leisure Studies), Peggy Hutchison (Recreation and Leisure Studies), Paula Johnson Tew (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), David J. Telfer (Recreation and Leisure Studies), John K. Yardley (Recreation and Leisure Studies)

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## General Information

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*Administrative Assistant*  
Sandra Notar

905-688-5550, extension 3259  
Physical Education 238  
<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. 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 minimum major average for graduation with a Bachelor of

Tourism Studies is 60 percent 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 International Studies section of the calendar.

The program offers an interdisciplinary approach to the study of tourism. Students must select a program stream in either Tourism Administration or Tourism Planning and Development.

The Tourism Administration stream 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 stream 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 stream combines elements of recreation and leisure studies, environmental studies and geography to examine aspects of tourism planning and development in depth.

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## Program Notes

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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 stream ECON 1P91 and 1P92 are recommended as the Social Science context credit. In the

Planning and Development stream, 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, 1P10 are approved language courses.

4. TOUR 3V10-3V99, LABR 1P91, 1P92, 2P32; ENTR courses; RECL 1P92, 1P96, 2P10, 3P10, 3P20; OBHR 2P51; ACTG and MKTG courses are recommended electives for the Tourism Administration stream.

5. TOUR 3P49, 3V10-3V99, 4P21; ENVI courses; GEOG 2P91, 3P45, 3P60, 3P83 are recommended electives for the Tourism Planning and Development stream.

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.

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## Honours Program

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### Tourism Administration stream

#### Year 1

- TOUR 1P91 and 1P98
- TOUR 1P99 or COSC 1P95
- one-half RECL credit numbered 1(alpha)90 or above
- MGMT 1P91 and 1P92
- 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, 2P11, 2P18 and 2P41
- RECL 2P10



- the Humanities or Science context credit not taken in year 1 (see program note 2)
- one language credit (see program note 3)
- one-half elective credit

*Year 3*

- TOUR 3P05, 3P28, 3P38, 3P40 and 3P78
- TOUR 3Q07 or 3Q17
- RECL 3P50
- one-half RECL credit numbered 2(alpha)90 or above
- one elective credit

*Year 4*

- TOUR 4F01, 4F02, 4F05 and 4F07
- one elective credit

**Tourism Planning and Development stream***Year 1*

- TOUR 1P91 and 1P98
- TOUR 1P99 or COSC 1P95
- one-half RECL credit numbered 1(alpha)90 or above
- MGMT 1P91 and 1P92
- 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, 2P11, 2P18 and 2P41
- TOUR 2P92 or 2P94
- 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-half elective credit (see program note 7)

*Year 3*

- TOUR 3P05, 3P18, 3P40, 3P66, 3P78
- TOUR 3Q07 or 3Q17
- TOUR 3P65 or 3P68
- one-half RECL credit numbered 2(alpha)90 or above
- one elective credit

*Year 4*

- TOUR 4F01, 4F02, 4F05 and 4F07
- one elective credit

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**Bachelor of Tourism with a Major**

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This program differs from the honours program in that it does not require the research project and thesis courses nor honours standing.

**Tourism Administration stream***Year 1*

- TOUR 1P91 and 1P98
- TOUR 1P99 or COSC 1P95
- one-half RECL credit numbered 1(alpha)90 or above
- MGMT 1P91 and 1P92
- 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, 2P11, 2P18 and 2P41
- RECL 2P10
- the Humanities or Science context credit not taken in year 1 (see program note 2)
- one language credit (see program note 3)
- one-half elective credit

*Year 3*

- TOUR 3P05, 3P28, 3P38, 3P40 and 3P78
- TOUR 3Q07 or 3Q17
- RECL 3P50
- one-half RECL credit numbered 2(alpha)90 or above
- one elective credit

*Year 4*

- TOUR 4F01, 4F05, 4F08 and 4P03
- one and one-half elective credits

**Tourism Planning and Development stream***Year 1*

- TOUR 1P91 and 1P98
- TOUR 1P99 or COSC 1P95
- one-half RECL credit numbered 1(alpha)90 or above
- MGMT 1P91 and 1P92

- 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, 2P11, 2P18 and 2P41
- TOUR 2P92 or 2P94
- 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-half elective credit (see program note 7)

*Year 3*

- TOUR 3P05, 3P18, 3P40, 3P66 and 3P78
- TOUR 3Q07 or 3Q17
- TOUR 3P65 or 3P68
- one-half RECL credit numbered 2(alpha)90 or above
- one elective credit

*Year 4*

- TOUR 4F01, 4F05, 4F08 and 4P03
- one and one-half elective credits

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**Brock/Niagara College Articulation Agreement**

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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.

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## Visual Arts

*This program is co-ordinated by the Department of Fine Arts Department of Visual Arts (as of July 1, 2002)*

### *Chair*

Murray Kropf  
Derek Knight (as of July 1, 2002)

### *Associate Professors*

Derek Knight, Murray Kropf, Merijeane Morrissey

### *Assistant Professor*

Jean Bridge

### *Visiting Artist*

Ed Aoki

### *Slide Librarian and Collections*

#### *Co-ordinator*

Lesley Bell

### *Part-time Instructors*

Judith Marquis, Bill Thoms, Carole Timm

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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/finearts/>

The Department of Visual Arts (as of July 1, 2002), 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 which provide a practical and critical understanding of the visual arts. Emphasis is placed on 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.

Studio activities which 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.

Enrolment in all studio courses is limited to 15 students. VISA 4F06 may 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. The Department arranges for a variety of visiting artists and with Brock's School of Fine and Performing Arts Committee, organizes a program of art exhibitions in the Centre For The Arts Gallery.

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## Language Requirement for Humanities Majors

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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 requirements, both half credits must be in the same language. It is recommended that students fulfil this requirement by year 2. (Students are urged to fulfil this requirement in year 1.)

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## Program Notes

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1. VISA 1F98 must be taken in year 1. VISA majors should take either VISA 1P93 and 1P94 or VISA 1P96 and 1P97 in year 1.
2. From the following list, no more than three VISA credits may be counted toward an honours degree, single or combined major, and no more than two for a pass degree: VISA 3P22, 3P23, 3P24, 3P25, 4M00-4M09, 4P13, 4P14.
3. 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, 3P02, 3P03, 3P93, 3P94, 4F06) may be admitted by portfolio. Details are available from the Administrative Assistant. Enrolment in these courses will be limited to 15 students; participation as an auditor is not permitted.
4. Year 3 courses are normally restricted to students with a minimum of three credits numbered 2(alpha)00 or above or permission of the instructor.
5. Non-majors may enrol in a maximum of one VISA studio course without a portfolio.
6. Portfolio evaluation and interview are required for admission to the Visual Arts Program. Consult the department.

7. Students wishing to take VISA 3F99, 4F06 or 4F99 must have a minimum 75 percent major average and permission of the Chair.

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
- VISA 1P93 and 1P94 or VISA 1P96 and 1P97
- one Science context credit
- one language credit (see language requirement)
- one elective credit

#### *Year 2*

- VISA 1P93 and 1P94 or VISA 1P96 and 1P97 (not taken in year 1)
- VISA 2P93 and 2P94 or VISA 2F96
- one credit from VISA 2F05, 2F26, 2F95, 2M90-2M99, 2P02, 2P03
- one credit from VISA 2P40, 2P41, 2P50, 2P51, 2P90, 2P91, 3M00-3M04, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25
- one Social Science context credit

#### *Year 3*

- VISA 3P90 and 3P91
- VISA 3P93 and 3P94 or VISA 3F96
- one credit from VISA 3M90-3M95, 3P02, 3P03
- one VISA studio credit
- one elective credit

#### *Year 4*

- VISA 4F06
- one VISA studio credit
- three elective credits

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### Pass Program

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- VISA 1F98
- VISA 1P93 and 1P94 or VISA 1P96 and 1P97
- one Science context credit
- one language credit (see language requirement)
- one elective credit

#### *Year 2*

- VISA 1P93 and 1P94 or VISA 1P96 and 1P97 (not taken in year 1)
- one credit from VISA 2F05, 2F26, 2F95, 2P02, 2P03
- one credit from VISA 2F96, 2M90-2M99, 2P93, 2P94
- one Social Science context credit
- one elective credit

#### *Year 3*

- VISA 3P02 and 3P03 or one elective credit
- one credit from VISA 2P40, 2P41, 2P50, 2P51, 2P90, 2P91, 3M00-3M04, 3P05, 3P06, 3P22, 3P23, 3P24, 3P25, 3P90, 3P91
- one VISA studio credit
- two elective credits

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### Combined Major Programs

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#### Honours

- VISA 1F98, 1P93, 1P94, 1P96 and 1P97
- four VISA credits

#### Pass

- VISA 1F98
- four VISA credits

# Women's Studies

## *Director*

Roberta Robb, Department of Economics

## *Participating Faculty*

Sharon Abbey (Education), Robert Anderson (Sociology), Barbara Austin (Management, Marketing and Human Resources), Sandra Beckett (Modern Languages, Literatures and Cultures), Kate Bezanson, Sociology, Kate Bezanson, Sociology, Judith Blackwell (Sociology), Maureen Connolly (Physical Education), June Corman (Sociology), Nancy DeCourville (Psychology), Ann Duffy (Sociology), Ann Marie Guilmette (Recreation and Leisure Studies), Jane Helleiner (Child and Youth Studies), Peggy Hutchinson (Recreation and Leisure Studies), Karen Krug (Environment), Anna Lathrop (Physical Education), Deborah Leslie (Geography), Ingrid Makus (Political Science), John Michielsen (Modern Languages, Literatures and Cultures), Meri Jean Morrissey-Clayton (Fine Arts), Joan Nicks (Communications, Popular Culture and Film), John Novak (Education), Donna Patrick (Applied Language Studies), Carmela Patrias (History), Esther Raventos-Pons (Modern Languages, Literatures and Cultures), Mary Frances Richardson (Chemistry), Marilyn Rose (English Language and Literature), Elizabeth Sauer (English Language and Literature), Susan Spearey (English Language and Literature)

## *Co-operating faculty from:*

Applied Language Studies; Canadian Studies; Chemistry; Child and Youth Studies; Classics; Communications, Popular Culture and Film; Community Health Sciences; Economics; English Language and Literature; Environment; Education; Fine Arts; Geography; History; Modern Languages, Literatures and Cultures; Music; Physical Education; Political Science; Psychology; Recreation and Leisure Studies; Sociology

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## General Information

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### *Administrative Assistant*

Barb Alexander

905-688-5550, extension 4330

*Mackenzie Chown C331*

The Centre for Women's Studies was approved by the Brock Senate in December 1990 and is dedicated to the memory of fourteen young women of the École Polytechnique whose death in 1989 dramatized the need for more understanding among women and men.

The combined major program in Women's Studies is designed for students who realize the value of interdisciplinary, cross-cultural approaches to learning and who wish to participate in a program whose subject matter and perspective are neither androcentric nor ethnocentric. The program offers to students a critical awareness of the importance of gender as an essential factor in cultural expressions, human relations and scholarly production.

Students are expected to develop the analytical skills to examine questions derived from feminist theories, as well as to evaluate scholarship that does not take this perspective into account. The program also encourages students to undertake self-generated projects in order to explore the validity of established theoretical frameworks as well as feminist alternatives.

The Centre for Women's Studies examines how gender influences both men and women. It encourages students to develop a critical perspective on assumptions about institutions, ideologies, history, human nature, science, language and culture. Women's Studies serves as an alternative to the traditional curriculum which tends to describe and analyse phenomena from an androcentric viewpoint. One of the strengths of the program is its diversity of perspectives in the critical examination of theoretical and empirical issues. Its ultimate aim is to further human understanding through exploring and respecting differences.

Although the primary objectives of Women's Studies are academic, the program also provides an environment supportive to women in the University and in the community at large. Hence, Women's Studies emphasizes the importance of women's perceptions and self definition. Because of the level of community interest in and support for Women's Studies, the program promotes activities and encourages research that benefits both the Brock community and women in the greater Niagara Region. It provides a forum for community issues of relevance to women and maintains a liaison with community organizations.

The academic program in Women's Studies is based upon a combined major with humanities, science or social science discipline. The interdisciplinary emphasis of the program encourages any combined major programs which are consistent with its academic objectives and the interests of students.

Students may be admitted to the BA honours program at any time. This program provides students with the opportunity for a more intensive examination of issues in the field than is offered in the pass degree program. The following course patterns are based on the normal combined major requirements: seven credits in each discipline plus six additional credits for an honours degree; five credits in each discipline plus five additional credits for a pass degree. Students enrolling in a combined humanities and WISE program will be required to complete one credit in a language other than English. Students should consult the co-major discipline department with respect to ancillary requirements.

Students will meet with the Director and with the Chair of the co-major discipline department at the end of the first year of study to ensure that the choice of courses meets the criteria for the combined major degree.

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## Program Notes

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1. 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 to make alternative arrangements. Students are responsible for selecting their own adviser, preferably by the end of year 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.

2. Students intending to pursue an honours degree should take WISE 2P90 and 2P91 in year 2.

3. Students in the honours program are required to take seven credits from the core courses in Women's Studies, cross-listed courses or courses approved for credit.

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

- 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 or one credit from the list of approved WISE courses
- two credits from the co-major discipline
- one elective credit

### Year 4

- WISE 4F90 and 4P91
- one-half WISE credit or one-half credit from the list of approved WISE 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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## Certificate Program

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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.

- WISE 1F90, 2P90 and 2P91
- WISE 2P92 or 2P97
- WISE 2P96 or 2P99
- two WISE credits or two credits from the list of approved Women's Studies credits

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## Departmental Offerings which are Approved Women's Studies Credits

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CHSC 2P50  
Aspects of Human Sexuality

COMM 2F92  
Popular Narrative

COMM 3P96  
Issues in Popular Culture

FILM 2F97  
Canadian Cinema  
(also offered as COMM 2F97)

POLI 4P06  
Philosophy, Politics and the Family

RECL 3P23  
Therapeutic Benefits of Humour  
(also offered as CHSC 3P23)

RECL 3Q17  
Qualitative Analysis  
(also offered as TOUR 3Q17)

SOCI 3P83  
Family Conflict and Violence

# Workplace Health

*This program is co-ordinated by the Department of Community Health Sciences.*

*Chair*

John Hay

*Director, Co-operative Programs*

Cindy Dunne

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## General Information

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*Administrative Assistant*

Joanne Falovo

905-688-5550, extension 4228

Shaver Residence Room 300

<http://arnie.pec.brocku.ca/~health/CHSC.html>

The BA honours in Workplace Health prepares students for careers as corporate or workplace health and wellness coordinators. Courses offered through the Faculties of Applied Health Sciences and Business provide a strong background in health, economics and human resource management.

The Workplace Health 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).

Admission to the Workplace Health Co-op program is on the basis of marks, a review of personal résumés and completion of the Workplace Health Co-op application form. The normal requirement for admission is a minimum 80 percent average on six OACs (or equivalent). As this is a limited enrolment program, admission is not guaranteed by attainment of the minimum requirement. The Co-op Programs Office and the Faculty of Applied Health Sciences will facilitate admission decisions.

Students admitted to the Workplace Health Co-op program must follow the Co-op program schedule. Failure to adhere to the schedule may result in removal from the Workplace Health Co-op program. 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 Workplace Health 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 Workplace Health 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*

- CHSC 1F90
- BIOL 1F90
- ECON 1P91 and 1P92
- MGMT 1P91 and 1P92

•one Humanities context credit

*Year 2*

- CHSC 2P09, 2P49, 2P91 and 2P99
- ECON 2P15
- ENTR 2P51
- MKTG 2P51
- OBHR 2P91
- RECL 2P10
- one-half elective credit

*Year 3*

- CHSC 3P23, 3P40, 3P50, 3P52 and 3Q07
- ECON 2P94
- OBHR 3P42
- RECL 3P04 and 3P30
- one-half elective credit

*Year 4*

- CHSC 3P93, 3P99, 4P50 and 4P99
- OBHR 3P97 and 4P69
- two elective credits

## Workplace Health Co-op

Students admitted to the Work Place Health 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*

- CHSC 1F90
- BIOL 1F90
- ECON 1P91 and 1P92
- MGMT 1P91 and 1P92
- one Humanities context credit

*Year 2*

- CHSC 0N90, 2P09, 2P49, 2P91 and 2P99
- ECON 2P15
- ENTR 2P51
- MKTG 2P51
- OBHR 2P91
- RECL 2P10
- one-half elective credit

*Year 3*

- CHSC 3P23, 3P40, 3P50, 3P52, 3Q07
- ECON 2P94
- OBHR 3P42
- RECL 3P04 and 3P30
- one-half elective credit

*Year 3*

Spring/Summer Sessions:

- CHSC 0N01

*Years 4 and 5*

- CHSC 3P93, 3P99, 4P50, 4P99
- OBHR 3P97, 4P69
- two elective credits

*Year 4*

Winter Term:

- CHSC 0N02

*Year 5*

Fall Term:

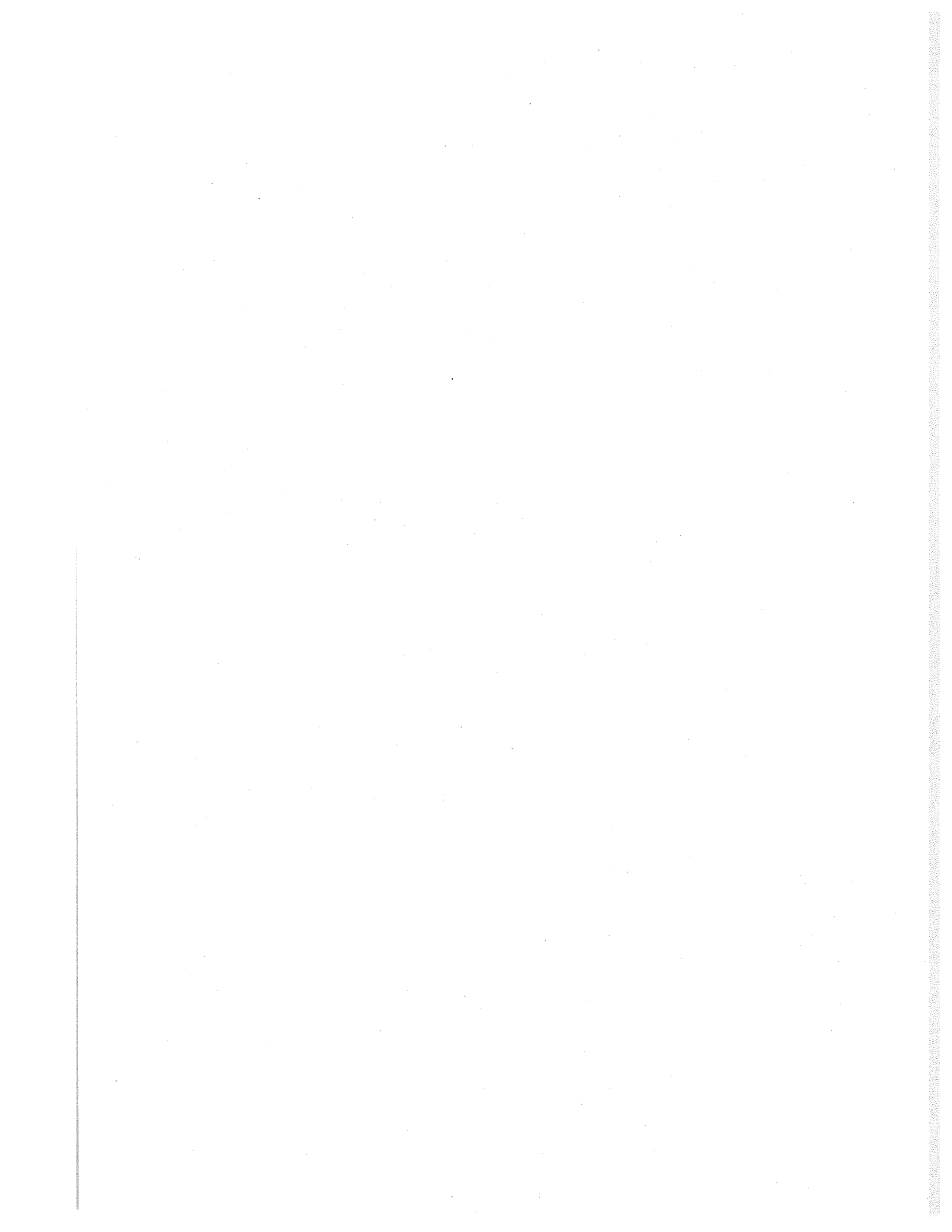
- CHSC 0N03

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# **Description of Courses**

**Note that not all courses are offered in every session.  
Refer to the applicable term timetable for details.**



## Course Description, Anatomy of

Course name and number	—————>	CHYS 4P31
Course title	—————>	Treatment Alternatives for Children and Adolescents: Dynamic Therapies
Cross-listing information	—————>	(also offered as PSYC 4P31)
Course description	—————>	The theoretical background, research and evaluation of current therapeutic approaches to emotionally and behaviourally disturbed children and adolescents. Topics include play therapies, non-directive, expressive and Gestalt approaches; group methods, use of modelling, goal setting and evaluation methods.
<i>Course format</i>	—————>	<i>Lectures, seminar, 3 hours per week.</i>
Restriction(s)	—————>	Restriction: open to CHYS (single or combined) and PSYC (single or combined) majors with a minimum of 13.5 overall credits.
Prerequisite(s)	—————>	Prerequisite: CHYS 2F10 or PSYC 2F12.
Course note(s)	—————>	Note: students participate in practicum placement.

## Course Numbering System

CHYS 4	P	31	
			—————> departmental code
			—————> credit value
		D ->	1.50 credits (Pre-service Education)
		E ->	1.00 credit (exchange course)
		F ->	1.00 credit
		G ->	1.00 credit
		L ->	2.00 credits (Pre-service Education)
		M ->	1.00 credit (multiple topics)
		N ->	0.00 credit
		P ->	0.50 credit
		Q ->	0.50 credit
		R ->	0.50 credit
		V ->	0.50 credit (variable topics)
		X ->	0.50 credit (exchange course)
		Y ->	0.25 credit
			—————> course year level*
		1 ->	year 1
		2 ->	year 2
		3 ->	year 3
		4 ->	year 4
		5 ->	graduate
		6 ->	professional certificate
		7 ->	Concordia Lutheran Seminary
		8 ->	pre-service
		9 ->	in-service

\* 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	ITAL	Italian
ACTG	Accounting	ITIS	Information Technology
ADED	Adult Education		Information Systems
ADMIN	Administration	JAPA	Japanese
APLS	Applied Language Studies	LABR	Labour Studies
ASTR	Astronomy	LATI	Latin
BCHM	Biochemistry	LING	Linguistics
BIOL	Biology	MAND	Mandarin
BTEC	Biotechnology	MATH	Mathematics
CANA	Canadian Studies	MGMT	Management
CHEM	Chemistry	MLLC	Modern Languages, Literatures and Cultures
CHSC	Community Health Sciences	MKTG	Marketing
CHYS	Child and Youth Studies	MUSI	Music
CLAS	Classics	NEUR	Neuroscience
COMM	Communications	NUSC	Nursing
CCST	Contemporary Cultural Studies	OBHR	Organizational Behaviour and Human Resources
COSC	Computer Science	OEVI	Oenology and Viticulture
DART	Dramatic Arts	OPER	Operations Management
ECON	Economics	PCUL	Popular Culture
EDUC	Education	PEKN	Physical Education and Kinesiology
ENGL	English	PHIL	Philosophy
ENTR	Entrepreneurship	PHYS	Physics
ENVI	Environment	POLI	Political Science
ERSC	Earth Sciences	PORT	Portugese
FILM	Film	PSYC	Psychology
FNCE	Finance	RECL	Recreation and Leisure Studies
FREN	French	RUSS	Russian
GBLS	Great Books/Liberal Studies	SCIE	Science
GEOG	Geography	SOCI	Sociology
GERM	German	SPAN	Spanish
GREE	Greek	SPMA	Sport Management
HIST	History	TOUR	Tourism Studies
INTL	International Studies	VISA	Visual Arts
		WISE	Women's Studies
		WRIT	Writing

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## Aboriginal Studies

*These course offerings are co-ordinated by the Faculty of Education - Aboriginal Studies and Native Teacher Education.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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 are used. Materials are 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 2M90-2M95

##### **Studies in Aboriginal History**

Variable topics course that surveys the history of a selected Aboriginal society, with emphasis on 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, with emphasis on 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 audiotaped exercises and in writing to printed exercises.

*Lectures, lab, 4 hours per week.*

Prerequisites: 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.*

Prerequisites: 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 BIRT guide.

Prerequisite: SOCI 1F90 or SOCI 2P82 or permission of the instructor.

#### ABST 4F01

##### **The Iroquois Spirit**

Three main cultural traditions of contemporary and traditional Iroquois: the Teharonhyawakoh - The Myth of the Earth Grasper (an extensive treatise on Iroquoian Cosmology), the Kayanere'kowa - Constitution of the Great Law and the Kariwiyo - the Code of Handsome Lake.

*Lectures, lab, 4 hours per week.*

Prerequisite ABST 3F01 or 3F03.

Note: this course will be conducted partially in an Iroquoian language and utilize guest speakers, of the identified course language, who are recognized experts on the Iroquoian tradition.

# Accounting

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### 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 with emphasis on 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 1P92 and 2P12.

### ACTG 1P71

#### The Legal Environment of Business

Canadian legal system as it affects the modern business environment, in particular the accounting professional. Topics include financial disclosure and audit requirements, corporate finance and securities, corporate capacity and agency and professional liability for negligence and other business torts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BAcc majors.

Note: enrolment limited to 65 students per section.

Completion of this course will replace previous assigned grade in ACTG 2P40 and MGMT 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 BAcc, BBE, BCB, TOUR and combined Business majors until date specified in BIRT 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 relevant data, various cost accounting systems and breakeven analysis.

*Lectures, discussion, 3 hours per week.*

Restriction: open to BBA, BBE, BCB, TOUR and combined Business majors until date specified in BIRT guide.

Prerequisite: ACTG 1P91.

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade in ACTG 1P12 and 1P92.

### ACTG 2P21

#### Accounting for Planning and Control I

Internal recording systems devised to implement and guide management planning and control with particular emphasis on cost finding, 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 until date specified in BIRT guide. After that date open to BAcc majors and BBA students approved to the Accounting concentration. In Spring Term open to

BAcc Co-op majors until date specified in BIRT guide.

Prerequisite: ACTG 1P12 or 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 until date specified in BIRT guide. After that date open to BAcc majors and BBA students approved to the Accounting concentration.

Prerequisite: ACTG 1P12 or 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 until date specified in BIRT guide. After that date open to BAcc majors and BBA students approved to the Accounting concentration. In Spring Term open to BAcc Co-op majors until date specified in BIRT 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.*

Note: enrolment limited to 45 students per section.

Completion of this course will replace previous assigned grade in ACTG 1P71 and MGMT 2P40.

## 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 until date specified in BIRT guide. After that date open to BAcc majors and BBA students approved to the Accounting concentration. In Spring Term open to BAcc Co-op majors until date specified in BIRT guide.

Prerequisite: ACTG 3P22 or MGMT 4P12 or permission of the instructor.

Note: enrolment limited to 40 students per section.

## ACTG 3P22

**Accounting for Planning and Control II** (also offered as MGMT 4P12)

Accounting information systems within the context of a management information system with emphasis on the design and implementation of systems and controls.

*Lectures, discussion, 3 hours per week.*

Restriction: open to BAcc majors with a minimum of 5.0 overall credits, BBA, BBE, BCB and combined Business majors with a minimum of 13.5 overall credits.

Prerequisite: ACTG 1P12 or 2P12 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in ITIS 3P97.

## ACTG 3P23

**Accounting for Planning and Control III**

Topics include performance evaluation, divisional performance measurement, transfer pricing, behavioural implications of accounting information and current issues 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. In Spring Session open to BAcc Co-op majors until date specified in BIRT 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. In Spring Session open to BAcc Co-op majors until date specified in BIRT 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. In Spring term open to BAcc Co-op students until date specified in BIRT guide.

Prerequisite: ACTG 1P12 or 2P12 or permission of the instructor.

Note: enrolment limited to 40 students per section.

## 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 BIRT 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.

## ACTG 4P11

**Accounting Theory**

Mathematical, economic and behavioural 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 14.5 overall credits.

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 wider view of organizations through the examination of a variety of applied and theoretical issues.

*Lectures, discussion, 3 hours per week.*

Restriction: open to BAcc majors.

Prerequisites: ACTG 3P23 and 4P34 (may be taken concurrently) or permission of the instructor.

Note: enrolment limited to 40 students per section.

## ACTG 4P24

**Advanced Topics in Cost and Management Accounting**

Capstone course in cost and management accounting with an activity based management framework and a quality focus. Topics include strategic cost management (target costing, midrange budgeting), theory of constraints (queuing and linear programming), productivity, business process re-engineering, cost management of computer hardware and software systems.

*Lectures, case discussion, 3 hours per week.*

Prerequisite: ACTG 3P23 or permission of the instructor.

Note: 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 with emphasis on accounting for complex business organizations and not-for-profit organizations.

*Lectures, discussion, 3 hours per week.*

Restriction: open to BAcc majors. In Spring Session open to BAcc Co-op majors until date specified in BIRT guide. In Fall Term not open to BAcc Co-op majors without permission of the instructor.



## ACCOUNTING

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 and combined Business majors with a minimum of 10.0 overall credits; not open to BAcc majors.

Prerequisite: ACTG 1P12 or 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.

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. In Spring Session open to BAcc Co-op majors until date specified in BIRT 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 14.5 overall credits. In Spring Session open to BAcc Co-op majors until date specified in BIRT 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.

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.

## ACCOUNTING 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

Fourth co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

### ACTG 0N05

#### Work Placement V

Fifth co-op work placement (4 months) with an approved employer.

Restriction: open to BAcc Co-op students.

### ACTG 0N90

#### Co-op Training and Development

(also offered as COMM 0N90 and OEVI 0N90)

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 BAcc Co-op students.

## BBA CO-OP COURSES

### 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

Fourth co-op work placement (4 months) with an approved employer.

Restriction: open to BBA Co-op students.

# Applied Language Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### APLS 1P80

#### English as a Second Language I

Introduction to academic listening, note-taking, reading, writing and speaking.

*Lectures, lab, 4 hours per week.*

Note: open to students whose native language is not English.

### APLS 1P81

#### English as a Second Language II

Refinement of academic listening, note-taking, reading, writing and speaking. 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 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 ESL Students

Focusses on the improvement of students' speaking skills through participation in seminars, oral presentations, and simulations, while also seeking to improve their listening skills, grammar, and vocabulary.

*Lectures, lab, 4 hours per week.*

Note: open to students whose native language is not English.

# Astronomy

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### 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.*

Note: a night of observing the stars and some seminars may be offered. Designed for both non-science and science students.

# Biochemistry

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

Prerequisite: BIOL 2F01 and one credit from CHEM 2P20, 2P21, 2P22, or permission of the instructor.

### BCHM 3P02

#### Proteins and Enzymes

Primary-, secondary-, tertiary-, and quaternary-protein structure; protein function and physical chemistry; protein structure and enzyme activity. Enzyme mechanisms and kinetics; allostery and control; membrane-bound enzymes; multi-enzyme systems.

*Lectures, seminar, simulations, 3 hours per week; lab, 3 hours per week for six weeks.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

### BCHM 3V90-3V99

#### Special Topics in Biochemistry

(also offered as BIOL 3V90-3V99)

Selected issues in Biology on the basis of faculty expertise.

Restriction: students must have a minimum of 8.0 overall credits and permission of the Chair.

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.

### BCHM 4P02

#### Plant Biochemistry: Membrane Transport

Ion-transporting ATPases, ion channels and ion-coupled transport at the plasma membrane and tonoplast. Cell transport and signaling cascades; Ca<sup>2+</sup> and phospholipid mediated signaling.

*Lectures or seminar, 3 hours per week.*

Restriction: students must have either a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BCHM 3P01 or 3P02 or permission of the instructor.

### 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: any year 3 BCHM credit 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).

Prerequisites: BCHM 3P02, BIOL 3P50, 3P80 and MATH 1P98 or permission of the instructor.

### BCHM 4P08

#### Topics in Plant and Microbial Biotechnology

(also offered as BTEC 4P08)

Illustrative cases from the current literature to show how specific biochemical processes or structures may be characterized, and how molecular manipulation allows genetic modification of such processes and structures 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.

Prerequisite: one of BCHM 3P01, BCHM 3P02, BIOL 3P50, CHEM 3P63 or permission of the instructor.

### 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.

Prerequisite: BIOL 3P50 or BCHM 3P02.

### BCHM 4P67

#### Biophysical Techniques

(also offered as BTEC 4P67 and CHEM 4P67)

Modern instrumental methods of biotechnology, emphasizing underlying 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.

# Biology

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

### BIOL 1F25

#### Biology: A Human Perspective

For non-science majors: contemporary issues of human concern. 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 may include cell structure and function; transmission and molecular genetics; physiology, neurobiology and behaviour; development and immunology; origins, natural selection and evolution.

*Lectures, 3 hours per week; lab/seminar, 3 hours per week during the Winter Term.*

Note: OAC biology recommended. Students registering for BIOL 1F90 should normally register for MATH 1P98 in the Fall Term. 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.

Prerequisite: BIOL 1F90 and one CHEM

credit numbered 1(alpha)80 to 1(alpha)99 or permission of the instructor.

### BIOL 2P05

#### Principles of Population and Behavioural Ecology

Biological processes and patterns of uniformity and diversity at the individual and population levels of organization; group characteristics of populations and the evolutionary basis of animal behaviour.

*Lectures, 3 hours per week; tutorial, 1 hour per week.*

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

Note: one-half year 1 credit in MATH strongly recommended.

### BIOL 2P92

#### Animal Form, Function and Diversity

Basic anatomical structure of organs and organ systems throughout the animal kingdom to illustrate the relationships of structure to such functions as movement, feeding, respiration, reproduction and development. Evolutionary progressions of organ systems illustrated where appropriate.

*Lectures, 3 hours per week; lab, 3 hours per week.*

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90 or permission of the instructor.

### BIOL 2P93

#### Plant Biology: An Evolutionary Perspective

Major evolutionary trends seen in the plant kingdom through the study of form, structure and the reproductive cycles of a large diversity of plants.

*Lectures, 3 hours per week; lab/seminar, 3 hours per week.*

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90 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 credit in BIOL or PHIL or permission of the instructor.

Note: may count as an elective, but not as a major course in any 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.

Note: computer simulations

### BIOL 2P98

#### Principles of Microbiology

Diversity, evolution, physiology and genetics of microorganisms 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 and Environmental Biology

(also offered as ENVI 2Q04)

Principles of evolutionary ecology; biological processes at the community level of biological organization; patterns and diversity in natural ecosystems in

terms of environmental toxins and their bioaccumulation in food webs; factors influencing community structure, biotic diversity and energy flow through ecosystems.

*Lectures, 2 hours per week, lab, 3 hours per week during the Fall Term.*

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

Note: one-half year 1 credit in MATH strongly recommended. Year 2 students enrolled in the ENEC program are permitted to register in BIOL 2Q04 provided they have successfully completed the MATH and GEOG requirements in year 1 of the program.

Completion of this course will replace previous assigned grade in BIOL 2P04.

### 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)

Nervous systems from the single neuron level to integrated function in the brain. Topics include sensory systems, synaptic function and transmitter substances, developmental aspects and neural plasticity, cellular basis of behaviour.

*Lectures, 3 hours per week; one lab, 3 hours.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2F01.

### BIOL 3P43

#### Applied Microbial Ecology

(also offered as BTEC 3P43)

Ecology of microorganisms and special adaptations that permit their use in biotechnology and applied microbiology.

*Lectures, 3 hours per week; lab, 3 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

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 1F90.

### 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; the development of species-typical behaviour; the development and significance of periodic behaviour patterns including endogenous rhythms orientation and navigation.

*Lectures, seminar, 3 hours per week; lab as required.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2P05, 2P92 and 2Q04 (2P04).

### 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

The units offered are: arid environments, insect sampling, limnology, fish ecology, ornithology, aquatic ecology, marine biology, bat behaviour, scavenging arthropods, small mammal ecology, arctic ecology, high arctic tundra and alpine ecology.

Restriction: students must have a minimum of 8.0 overall credits and permission of the instructor.

Prerequisites: BIOL 2P05 and 2Q04 (2P04).

Note: in co-operation with Carleton, Queen's, Toronto, Trent, Waterloo, Western, Windsor, and York universities, the Department of Biological Sciences participates in a series of one and two week field courses at established field stations in Algonquin Park, Lake Opinicon and the OMNR station at Dorset, Ontario. In recent years, courses have been offered outside the province at field stations in Alberta, Manitoba and the Northwest Territories. Each course is a separate unit and may include students from all participating universities. The number of units offered will vary from year-to-year, but those available will normally be scheduled during one- and two-week periods from late April through early September. Two one-week units or one two-week unit will constitute the equivalent of one-half credit. Registration must be completed by the end of January with the course Co-ordinator. Registrants normally defray their own travel expenses to the field station. Modest board and room costs are required in addition to the usual half credit registration fee.

### BIOL 3P72

#### Ontario Universities Field Ecology Course

See BIOL 3P71 for course description, restriction and note.

Prerequisite: BIOL 3P71.

## BIOLOGY

### 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 (2P04); one of BIOL 2P92, 2P93, 2P96 or 2P98.

### BIOL 3P84

#### Investigative Neurobiology

(also offered as NEUR 3P84)

Methods used in neurobiology and neurophysiology. Emphasis on electrophysiological 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.

### 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 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, 3 hours per week; lab, 3 hours per week.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisites: BIOL 2F01 and 2P93 or permission of the instructor.

### BIOL 3V90-3V99

#### Special Topics in Biology

(also offered as BCHM 3V90-3V99)

Selected issues in Biology on the basis of faculty expertise.

Restriction: students must have a minimum of 8.0 overall credits and permission of the Chair.

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.

### 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) 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 BIOL 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) and permission of the Chair.

Note: to be taken in conjunction with BIOL 4F90. The 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. The 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 photo regulation 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: any year 3 BCHM credit or permission of the instructor.

### BIOL 4P06

#### Bioinformatics

(also offered as BCHM 4P06 and BTEC 4P06)

Genome sequencing projects, gene discovery and gene expression. DNA/RNA/Protein sequence data, including mutagenic processes, molecular evolution and systematics, codon usage, reconstruction of ancient molecules, and prediction of higher level molecular structure.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisites: BCHM 3P02, BIOL 3P50, BIOL 3P80 and MATH 1P98 or permission of the instructor.

### 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).

Prerequisites: BIOL 3P28 and 3P34 or permission of the instructor.

#### BIOL 4P34

##### **Systems Neurophysiology**

Selected topics in sensory and integrative mechanisms in 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 3P34 or permission of the instructor.

Completion of this course will replace previous assigned grade in BIOL 4P50.

#### BIOL 4P51

##### **Molecular Virology**

(also offered as BTEC 4P51)

Bacterial and animal viruses. Topics include biochemical properties, virus-host interaction, productive cycle, effect of virus on host cell and organism, viral vectors and gene therapy, recombinant viral vaccines and origin of virus.

*Lectures, seminar, 3 hours per week.*

Restriction: 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 4P52

##### **Developmental Genetics**

The role of structural/regulatory genes in development. Topics include homeotic genes in vertebrate and invertebrate pattern formation, primary induction and peptide growth factors and the use of transgenic mice and gene targeting to study mammalian embryo genesis.

*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 3P28 and 3P50 or 3P51 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: BCHM 3P01 or BIOL 3P50.

#### BIOL 4P56

##### **Genes and Behaviour**

Developmental and environmental influences on the behaviour of invertebrates and vertebrates. Genetic links between morphology and behaviour, the inheritance of quantitative behavioural traits, genetic relatedness, the influence of behaviour on patterns of inheritance, especially in social species.

*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 3P51 and 3P60.

#### 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, 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 2P96, 3P50 or, 3P51 or permission of the instructor.

#### BIOL 4P60

##### **Advanced Seminar in Population and Behavioural Ecology**

Topics selected vary from year to year partly in response to student interests.

*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, 3P65.

#### 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: BIOL 3P60 or 3P64 or permission of the instructor.

#### BIOL 4P84

##### **Physiology of Excitable Cells**

Neurons, muscle and/or neurosecretory cells at the cellular and subcellular levels. Topics include ion channel activity, patch clamp recording, intracellular messenger systems, mechanisms of neurosecretion and neural plasticity.

*Lectures, seminar, 3 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisite: BIOL 3P34 or 3P84 or permission of the instructor.



# Biotechnology

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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, 3 hours per week; lab, 3 hours per week.*

Prerequisites: BIOL 1F90 and CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91)

### BTEC 2P63

#### Introduction to Biophysical Chemistry (also offered as CHEM 2P63)

Physical chemistry as applied to biological sciences. Introductory thermodynamics, kinetics, equilibria, 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, 3 hours per week; lab, 3 hours per week.*

Prerequisites: CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91); 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, 3 hours per week; lab, 3 hours per week.*

Prerequisite: BTEC 2P63.

### BTEC 3P43

#### Applied Microbial Ecology (also offered as BIOL 3P43)

Ecology of microorganisms and special adaptations that permit their use in biotechnology and applied microbiology. *Lectures, 3 hours per week; lab, 3 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; enhancers 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)

Biosynthesis of the natural products of secondary metabolism. Introduction to the use of enzymes and other biological reagents in organic synthesis.

*Lectures, 3 hours per week; lab, 3 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, 3 hours per week; lab, 3 hours per week.*

Prerequisite: CHEM 2P21.

### BTEC 4F90

#### Research Project

Experimental research carried out under faculty supervision.

Restriction: permission of the co-ordinators.

### 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, 2 hours per week.*

Restriction: students must have a minimum of 14.0 overall credits or approval to year 4 (honours).

Prerequisites: BCHM 3P02, BIOL 3P80 and MATH 1P98 or permission of the instructor.

### BTEC 4P08

#### Topics in Plant and Microbial Biotechnology

(also offered as BCHM 4P08)

Illustrative cases from the current literature to show how specific biochemical processes or structures may be characterized, and how molecular manipulation allows genetic modification of such processes and structures 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 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: open to students with a minimum of 13.5 overall credits.

Prerequisites: CHEM 2P12 or 2P63.

**BTEC 4P21****Mutagenesis in Disease and Biotechnology**

(also offered as BCHM 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.*

Prerequisite: BIOL 3P50 or BCHM 3P02.

**BTEC 4P27****Enzyme and Co-enzyme Mechanisms**

(also offered as CHEM 4P27)

Hydrolytic and other processes catalyzed by enzymes lacking non-protein prosthetic groups; transferase reactions involving biotin, pyridoxal phosphate, thiamine pyrophosphate, folic acid and cobalamin; oxidation mechanisms involving pyridine nucleotides, flavoenzymes, hydroperoxidases and oxygenases.

*Lectures, seminar, 3 hours per week.*

Prerequisites: BCHM 3P01, 3P02 and CHEM 2P21.

**BTEC 4P51****Molecular Virology**

(also offered as BIOL 4P51)

Bacterial and animal viruses. Topics include biochemical properties, virus-host interaction, productive cycle, effect of virus on host cell and organism, viral vectors and gene therapy, recombinant viral vaccines and origin of virus.

*Lectures, seminar, 2 hours per week.*

Restriction: 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, 2 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 (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 CHEM4P68)

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.

**CO-OP COURSES****BTEC 0N00****Work Placement**

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

**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**

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to BTEC Co-op students.

# Canadian Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

See pages 131 - 132 for a list of approved Canadian Studies courses offered by other departments.

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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 2F91

#### Culture and Power in Canada

Interdisciplinary examination of Canadian culture and society employing a variety of methods and perspectives, including those of cultural studies. Cultural theory and approaches to critical analysis in the arts and social sciences. Topics may include cultural institutions; issues of race, class and gender; Canadian-American relations; critical examination of Canadian myths.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CANA 1F91 or permission of the instructor.

### CANA 3F96

#### Landscape and Cultural Memory

(also offered as GEOG 3F96 and MLLC 3F96)

Field course in Quebec. Readings in literature and geography, exploring the links and reciprocal influences between disciplines. Authors studied may include Louis Hémon, Philippe Aubert de Gaspé, Roger Lemelin.

Restriction: consult the Director

regarding permission to register.

Prerequisite: CANA 2F91, FREN 2F03 or permission of the instructor.

Note: field work for two weeks in May. Students are expected to pay their own expenses. Course given in English. French majors complete written assignments and exams in French. CANA students may count this as either Cultural Studies I or II and as a credit related to French Canada.

### CANA 3M90-3M99

#### Selected Interdisciplinary Studies

Applications 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 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: CANA 2F91 or one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

### CANA 3V90-3V94

#### Canadian Cultural Studies I

Selected topics in Canadian cultural studies emphasizing methods and issues with a Humanities orientation.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CANA 2F91 or permission of the instructor.

### CANA 3V91

#### 2002-2003: Myth, Memory and Meaning in Canadian Cultural History

(also offered as HIST 3V91)

Examination of how different groups and different individuals have remembered, commemorated and assigned meanings to the past, focusing primarily on the post-Confederation period.

Prerequisite: CANA 2F91 or two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

### CANA 3V95-3V99

#### Canadian Cultural Studies II

Selected topics in Canadian cultural studies with an emphasis on methods and

issues with a Social Science orientation.  
*Lectures, seminar, 3 hours per week.*

Prerequisite: CANA 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.

# Chemistry

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

### CHEM 1F92

#### Chemical Principles and Properties

A chemical approach to describing the natural world. Molecular structure, shapes, and behaviour of molecules, with emphasis on 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; lab, 3 hours per week.*

Prerequisite: a minimum 70 percent grade in OAC chemistry (or equivalent course) or 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 chemistry or equivalent. 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 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 1P81

#### Introduction to Modern Chemistry II

Gas laws, thermochemistry, solutions, chemical equilibria and kinetics. Problem solving is stressed. Laboratory work includes chemical analysis and synthesis and experiments illustrating lecture topics.

*Lectures, 3 hours per week; seminar, lab, 3 hours per week.*

Prerequisite: CHEM 1P90 (or 1P80).

Completion of this course will replace previous assigned credit in CHEM 1P91.

### 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; lab, 3 hours per week.*

Restriction: open to CSDT majors.

Completion of this course will replace previous assigned grade in CHEM 1P80.

### 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; lab, 3 hours alternating weeks.*

Prerequisites: CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91); MATH 1P01 and 1P02 (preferred), or MATH 1P97.

### CHEM 2P20

#### Principles of Organic Chemistry

An introduction to the principles and techniques of organic chemistry; correlation of reactions and physical properties of organic compounds with structure and energetic concepts. Laboratory work includes organic preparations and techniques.

*Lectures, 3 hours per week; lab, 3 hours per week.*

Prerequisites: CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91).

### CHEM 2P21

#### Principles of Bio-organic Chemistry

Organic chemistry of selected groups of natural products; their biological origin and significance. Introduction to applications of spectroscopy in organic chemistry and biochemistry. Laboratory work includes organic syntheses and characterization and organic analysis.

*Lectures, 3 hours per week; lab, 3 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; lab, 3 hours alternating weeks.*

Prerequisites: CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91).

### 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, 3 hours per week; lab, 3 hours per week.*

Prerequisites: CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91).

### 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, 3 hours per week; lab, 3 hours per week.*

Prerequisites: CHEM 1F92 (1P80 and 1P81 or 1P90 and 1P91); MATH 1P01 and 1P02 (preferred), or MATH 1P97.

## CHEMISTRY

### 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

Basic stereochemical principles. 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. Laboratory work includes selected experiments in synthetic organic chemistry and the handling of air and water sensitive reagents.

*Lectures, 3 hours per week; lab, 3 hours per week.*

Prerequisite: CHEM 2P20 or permission of the department.

Note: CHEM 3P40 recommended. May be taken concurrently.

### CHEM 3P21

#### Organic Reactions

The chemistry of acyclic, cyclic and heterocyclic compounds, reactive intermediates, design of organic synthesis, molecular rearrangements, free radical chemistry; introduction to organic photochemistry and electrochemistry.

*Lectures, 3 hours per week; lab, 3 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, 3 hours per week; lab, 3 hours per week.*

Prerequisite: CHEM 2P32.

Note: CHEM 3P40 recommended. May be taken concurrently.

### CHEM 3P32

#### Main Group Inorganic Chemistry

A continuation of CHEM 3P31, emphasizing the main group elements.

*Lectures, 3 hours per week; lab, 3 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

The 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, 3 hours per week; tutorial, 3 hours per week.*

Restriction: students must have a minimum of 9.0 overall credits.

Prerequisite: CHEM 2P20.

### CHEM 3P41

#### Instrumental Methods for Quantitative Analysis

The 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, 3 hours per week; lab, 3 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 electromagnetic 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, 3 hours per week; lab, 3 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; seminar 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)

The biosynthesis of the natural products of secondary metabolism. Introduction to the use of enzymes and other biological reagents in organic synthesis.

*Lectures, 3 hours per week; lab, 3 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, 3 hours per week; lab, 3 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.

#### 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 4P14

##### Statistical Thermodynamics

Systems of independent particles, chemical equilibrium, partition functions for atoms and molecules, nuclear spin statistics, fluctuations, thermodynamic properties of crystals, real gases, metals.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CHEM 3P51.

Co-requisite: CHEM 3P53.

#### CHEM 4P15

##### Principles of Physical Polymer Chemistry

Techniques used in characterization of such polymer properties as molecular weight, configuration and conformation. Structure-property relationships including an analysis of the amorphous and crystalline states. Liquid crystalline polymers, polymer blends and medical polymers.

*Lectures, 3 hours per week.*

Restriction: students must have a minimum of 13.5 overall credits.

Prerequisite: CHEM 2P12 or 2P63.

#### CHEM 4P16

##### Physical Chemistry of Surfaces

Introduction to basic concepts of the physical chemistry of surfaces including surface tension, wetting, adhesion, adsorption and binding, and catalysis. Examination of modern methods of analysis of surface composition, both chemical and physical.

*Lectures, 3 hours per week.*

Restriction: Students must have a minimum of 13.5 overall credits.

Prerequisite: CHEM 2P12 or 2P63.

#### 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 or 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.

Prerequisites: 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 4P27

##### Enzyme and Co-enzyme Mechanisms (also offered as BTEC 4P27)

Hydrolytic and other processes catalyzed by enzymes lacking non-protein prosthetic groups; transferase reactions involving biotin, pyridoxal phosphate, thiamine pyrophosphate, folic acid and cobalamin; oxidation mechanisms involving pyridine nucleotides, flavoenzymes, hydroperoxidases and oxygenases.

*Lectures, seminar, 3 hours per week.*

Prerequisites: CHEM 2P21, BCHM 3P01 and 3P02.

#### CHEM 4P40

##### Scientific Instrumentation

Review of the use of electronic components and circuits for measurements and control; analog and digital measurements; instrument optics. Application to spectroscopic, electrochemical and other scientific instrumentation used for analysis, measurement or control.

*Lectures, 3 hours per week.*

Prerequisite: CHEM 3P40 or 3P41 or permission of the instructor.

#### CHEM 4P47

##### Nuclear Magnetic Resonance (NMR) Spectroscopy

Applications of high-resolution NMR spectroscopy to chemical systems. Theory of chemical shifts, coupling constants and relaxation times; instrumentation,

## CHEMISTRY

including pulse and Fourier transform techniques; structure determination by NMR; two-dimensional NMR; chemical exchange effects.

*Lectures, 3 hours per week.*

Prerequisite: CHEM 3P40 or permission of the instructor.

### CHEM 4P48

#### Mass Spectroscopy

The theory and practice of modern mass spectroscopy applied to organic, inorganic and organometallic systems; systematic interpretation of organic mass spectra; high resolution mass spectra; GC/MS; HPLC/MS; new ionization methods; metastable ions; computerized mass spectrometry.

*Lectures, 3 hours per week.*

Prerequisite: CHEM 3P40 or permission of the instructor.

### 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.

### CHEM 4V10-4V13

#### Special Topics in Physical Chemistry

Selected topics in advanced physical chemistry.

Prerequisite: CHEM 3P51 and 3P53.

### CHEM 4V23-4V26

#### Special Topics in Organic Chemistry

Selected topics in advanced organic chemistry.

Prerequisite: CHEM 3P20 and 3P21.

### CHEM 4V30-4V35

#### Special Topics in Inorganic Chemistry

Selected topics in advanced inorganic chemistry.

Prerequisites: CHEM 3P30 and 3P31.

### CHEM 4V41-4V45

#### Special Topics in Analytical Chemistry

*Lectures, seminar, 3 hours per week.*

Prerequisite: CHEM 3P41.

## CO-OP COURSES

### CHEM 0N00

#### Work Placement

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

### 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

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to CHEM Co-op students.

## Child and Youth Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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 and CHLH until date specified in BIRT 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.

#### 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/BEEd, BSc/BEEd, CHYS (single or combined), CHLH, LING (single or combined), CHSC, HLSC and BPhEd/BEEd majors until date specified in BIRT guide.

Prerequisites: CHYS 1F90 and PSYC 1F90 or permission of the instructor.

Note: a half-day placement per week is required for all students. School placements in the Niagara Peninsula are arranged by the CHYS Co-ordinator. Transportation to placement is a student responsibility. Screening, such as police checks for criminal activity may be required. This course is designed to promote the bridging of disciplines. Students may not concurrently register in PSYC 2F12.

Completion of this course will replace previous assigned grade in PSYC 2F12.

#### 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/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT guide. Prerequisites: CHYS 1F90 and 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/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT guide. Prerequisites: CHYS 1F90 and 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/BEEd, CHYS (single or combined), BPhEd, BKin or BPhEd/Ed majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: one of PEKN (PHED) 1P90, CHYS 1F90, PSYC 1F90.

Completion of this course will replace previous assigned grade in PHED 2P93.

#### CHYS 2P94

##### Physical Activity for Preschoolers

(also offered as PEKN 2P94)

Movement experiences for preschoolers 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/BEEd, CHYS (single or combined), BPhEd, BKin or BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisites: one of CHYS 1F90, PSYC 1F90, PEKN (PHED) 1P93.

Completion of this course will replace previous assigned grade in PHED 2P94.

#### CHYS 2P98

##### Child Language Acquisition: Early Stages

(also offered as LING 2P98 and PSYC 2P98)

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. The effect of interaction with care givers. Early bilingualism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F91 or PSYC 1F90 or permission of the instructor.



## CHILD AND YOUTH STUDIES

### CHYS 2P99

#### **Child Language Acquisition: Late Stages** (also offered as LING 2P99 and PSYC 2P99)

Later acquired aspects of language, especially syntactic, semantic and pragmatic. Development of ability to use linguistic ambiguity and humour. Reading and writing skills, registers. Abnormal language development.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CHYS 2P98 or permission of the instructor.

### 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/BEEd and CHYS (single or combined) majors.

Prerequisite: one of MATH 1F92, PSYC 2F23 (2F24), SOCI 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/BEEd, CHYS (single or combined) and PSYC (single or combined) majors until date specified in BIRT 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 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/BEEd and CHYS (single or combined) majors.

Prerequisite: one of MATH 1F92, PSYC 2F23 (2F24), SOCI 2F10 (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/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P35.

### CHYS 3P23

#### **Psychology of Parenting** (also offered as PSYC 3P23)

The determinants, varieties and consequences of parenting. Focus on psychological research findings in contemporary parenting/parenthood issues. Topics include the transition to parenthood, different styles of parenting, dual-career parents and abusive parents.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (single or combined), CHLH and PSYC (single or combined) majors until date specified in BIRT 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 3P25

#### **Cognitive Processes in Childhood**

The development of processes of perception, attention, representation, memory, thinking and language within an information processing framework. Emphasis on cognitive processes related to learning. Theoretical issues and empirical controversies.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd and CHYS (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10.

### 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/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT 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/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT guide.

Prerequisite: CHYS 2P38.

Completion of this course will replace previous assigned grade in SOCI (WISE) 2F21 and 2P21.

### 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.

### 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 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/BEEd and CHYS (single or combined) majors until date specified in BIRT 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/BEEd, CHYS (single or combined), and PSYC (single or combined) majors until date specified in BIRT 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 (2F24), SOCI 2F10 (for CHYS/SOCI combined majors). May be taken concurrently.

Note: this is not a computer programming course.

#### 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 CHLH, CHYS BA/BEEd, CHYS (single or combined), CHSC, HLSC and WKHL majors, until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90 or CHYS 2F10.

Completion of this course will replace previous assigned grade in HLST 3P80.

#### 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/BEEd,

CHYS (single or combined) and SOCI majors, until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

#### CHYS 3P90

##### **Assessment of Infants and Preschoolers with Special Needs**

Issues in the assessment of children, as well as preventative and early intervention strategies. A variety of assessment techniques including testing, observation and rating scales.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (single or combined) and PSYC (single or combined), CHLH majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10 or PSYC 2F12.

#### 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/BEEd, CHYS (single or combined), and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 14.0 overall credits.

Prerequisite: CHYS 2F10 or PSYC 2F12.

#### CHYS 3P92

##### **Gender and Sexuality in Childhood and Youth**

(also offered as SOCI 3P92 and WISE 3P92)

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 in such processes.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (single or combined), SOCI (single or combined) and WISE majors until date specified in BIRT guide. Students must

have a minimum of 8.0 overall credits. Prerequisite: one of CHYS 2P38, SOCI 2P11 and 2P13 (2F10), WISE 2P90 (2F90) or 2P91.

#### CHYS 3P93

##### **Behavioural Challenges of Children and Youth**

Factors influencing behavioural challenges presented by children and youth, within a multi-modal paradigm. Case examples will be used to illustrate the model from the perspective of assessment and intervention.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (single or combined) and CHLH majors until date specified in the BIRT guide.

Prerequisite: CHYS 2P35.

#### CHYS 3P94

##### **Childhood, Youth and Equity Issues**

Research on contemporary children and youth with a focus 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/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: CHYS 2P35

#### CHYS 3P96

##### **Applied Studies of Diversity and Development**

Theoretical applications in diversity and development related to childhood and youth. Topics may include field work relationships, participant observations, report writing and ethical issues. Involves an extended community placement.

*Lectures, seminar/lab, 3 hours per week.*

Restriction: open to CHYS BA/BEEd and CHYS (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one of CHYS 2P35, 3P20, 3P35.

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

## CHILD AND YOUTH STUDIES

required. This course meets on a variable schedule throughout both the Fall and Winter terms.

Completion of this course will replace previous assigned grade in PSYC 3P27.

### CHYS 3P97

#### **Policies of Childhood and Youth: Canadian Perspectives**

Canadian initiatives in child welfare, education, health and children's rights are located within a broader global context. The roles of national and local governments, non-governmental organizations, professionals, adults and children.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (single or combined) and CHLH majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2P38.

### CHYS 3P98

#### **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/BEEd and CHYS (single or combined) majors until date specified in BIRT 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.

*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 3Q90

#### **Directed Readings I**

Program of study not available among the regular course offerings, designed in

consultation with the faculty member directing the course.

Restriction: open to CHYS BA/BEEd 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.

Completion of this course will replace previous assigned grade in CHYS 3V90.

### CHYS 3Q91

#### **Directed Readings II**

Program of study not available among the regular course offerings, designed in consultation with the faculty member directing the course.

Restriction: open to CHYS BA/BEEd 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.

Completion of this course will replace previous assigned grade in CHYS 3V91.

### CHYS 3Q93

#### **Conflict, Contradictions and Development**

(also offered as PSYC 3Q93)  
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/BEEd, CHYS (single or combined) and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: CHYS 2F10 or PSYC 2F12 or permission of the instructor.

### CHYS 3Q94

#### **Advanced Topics in Social Development**

(also offered as PSYC 3Q94)  
Social competence, aggression, friendship and other topics in social development from a variety of developmental perspectives. Methodological and training

issues relevant to the study of social development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (single or combined) and PSYC (single or combined) majors until date specified in BIRT 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 or permission of the instructor.

### 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 4F97

#### **Honours Project**

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).

Prerequisites: CHYS 3P10 and 3P15 (2P20).

### CHYS 4F99

#### **Honours 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).

Prerequisites: CHYS 3P10 and 3P15 (2P20).

Co-requisite: CHYS 4P99.

Note: students must be admitted to the honours program and must consult with the Chair before registering for a thesis.

### CHYS 4P31

#### **Treatment Alternatives for Children and Adolescents: Dynamic Therapies**

(also offered as PSYC 4P31)

The theoretical background, research and evaluation of current therapeutic approaches to emotionally and behaviourally disturbed children and

adolescents. Topics include play therapies, non-directive, expressive and Gestalt approaches; group methods, use of modelling, goal setting and evaluation methods.

*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 participate in practicum placement.

#### CHYS 4P32

##### **Treatment Alternatives for Children and Adolescents: Cognitive and Behavioural Approaches**

(also offered as PSYC 4P32)

Behavioural theory and techniques; social skills training, cognitive theories, contingency management 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 participate in practicum placement.

#### 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, 3P35, 3P90, 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), 3P91, 3P92, 3Q93, 3Q94.

#### CHYS 4P56

##### **Maturation and Development** (also offered as PSYC 4P56)

The influences of brain physiology and maturation on psychological development and vice versa and the role of heredity in understanding human development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEd, CHYS (single or combined), NEUR and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Completion of this course will replace previous assigned grade in PSYC 3P56.

#### CHYS 4P60

##### **Structure of Oral Narrative** (also offered as LING 4P60)

Topics include functions of storytelling, characteristics of tellers, relationship between storytelling and social identity. Experience in performance of a variety of oral narratives, with a focus on Canada.

*Seminar, 3 hours per week.*

Restriction: open to CHYS (single or combined), CANA, COMM (single or combined) and LING (single or combined) majors until date specified in BIRT guide. Students must have approval to year 4 (honours).

#### 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 4P99

##### **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 (2P20).

Co-requisite: CHYS 4F99.

## Classics

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

#### CLAS 1P91 Greek Civilization

Literature, art, thought and political evolution of ancient Greece, based on masterworks of classical literature. Slides are used to illustrate classical history and archaeology.

*Lectures, seminar, 3 hours per week.*

#### CLAS 1P92 Roman Civilization

Literature, art, thought and political evolution of ancient Rome, based on masterworks of classical literature. Slides are used to illustrate classical history and archaeology.

*Lectures, seminar, 3 hours per week.*

#### CLAS 1P93 Culture and Civilization of Central Europe: From the Prehistoric to the Carolingian Period

(also offered as GERM 1P93)

Cultural development of central Europe from the earliest stone and pottery cultures, 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 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 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.*  
Completion of this course will replace previous assigned grade in CLAS 2P93.

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. Emphasis on the 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)  
Problems and issues of particular relevance to women in Greek and Roman society. Topics include social, political and legal rights; prostitution; religious duties; marriage and children; birth control and abortion.  
*Lectures, seminar, 3 hours per week.*

CLAS 2P62  
**Politics of Gender in Archaic and Classical Greece**  
(also offered as WISE 2P62)  
Social issues of ancient Greece as viewed from a modern perspective. Topics include familial bonding; female and male identity; domestic and civil violence; sexuality and social status; power dynamics within the family and the city-state.  
*Lectures, seminar, 3 hours per week.*

CLAS 2P91  
**History of Early Greece**  
Social and political history of the Greek world from the Bronze Age to 450 BC: Minoans and Mycenaeans, the Dark Age, the colonizing period, the tyrants, the rise of Sparta, the Persian wars and the Athenian Empire. Readings from Greek historians and documents in translation.  
*Lectures, seminar, 3 hours per week.*

## CLAS 2P92

**History of Classical Greece**

Social and political history of the Greek world, 450-323 BC. The great war between Athens and Sparta, the rivalry of the city-states, the rise of national states, Alexander the Great. Readings from Greek historians and documents in translation.

*Lectures, seminar, 3 hours per week.*

Note: recommended preparation for this course includes CLAS 2P91.

## CLAS 2P98

**History of the Roman Republic**

History of Rome to the Battle of Actium (31 BC), with emphasis on social and political developments from the Gracchi to Julius Caesar.

*Lectures, seminar, 3 hours per week.*

## CLAS 2P99

**History of the Early Roman Empire**

History of Rome from the Battle of Actium to the death of Marcus Aurelius (AD 180), with emphasis on social and political developments.

*Lectures, seminar, 3 hours per week.*

Note: recommended preparation for this course includes CLAS 2P98.

## CLAS 3P00

**Homer and Greek Epic**

Two heroic epics of Homer, The Iliad and The Odyssey. Topics include the conventions of epic, the oral transmission of epic verse and the Homeric concept of the gods.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of CLAS 1P91, 1P95, 1P97, 3P05.

Note: open to students who lack the prerequisite but have a minimum of 8.0 overall credits.

## CLAS 3P02

**Greek Tragedy**

Origins of tragedy and its development as entertainment and literature through the Classical period. Works may include Aeschylus, The Oresteia; Sophocles, Oedipus Rex and Oedipus at Colonus; and Euripides, Medea and Hippolytus.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of CLAS 1P91, 1P95, 1P97, 3P05, DART (DRAM) 1F93.

Note: open to students who lack the prerequisite but have a minimum of 8.0 overall credits.

## CLAS 3P05

**Masterworks and Major Genres of Greek Literature**

A 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**

A 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 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, 2P99 or VISA 1F90.

## 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.

Note: recommended preparation for this course includes CLAS 2P30 and CLAS 2P32. 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. Note: when offered (once every two years) practica run daily for six weeks during the summer and are conducted with the assistance of local authorities. Recommended

## CLASSICS

preparation for this course includes CLAS 2P30, 2P32 and 4P13. Students are expected to pay their own expenses.

### CLAS 4M00-4M09

#### **Study in Mediterranean Lands**

(also offered as VISA 4M00-4M09)

Topographical investigations of ancient sites and monuments. Study tours of the great cities and museums of the Mediterranean world with emphasis on the art and architecture of the Prehistoric, Classical and later periods.

Restriction: permission of the department.

Note: offered in the Summer Session for three or four weeks of intensive study abroad. Students are expected to pay their own expenses.

### CLAS 4M02

#### **2002-2003: The Gift of Dionysos: Wine in Greek Culture**

Study tour of Greece focussing on the central roles that wine played in the lives and economies of the inhabitants of the Aegean basin in antiquity and in contemporary society; visits to archaeological sites, museums, vineyards and wineries.

Note: offered in Greece: 4 weeks. Students are expected to pay their own expenses.

### 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 archaeological 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 or 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. 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: one CLAS credit numbered 2(alpha)90 or above or 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; one CLAS credit numbered 2(alpha)90 or above or permission of the department.

### CLAS 4V27

#### **2002-2003: Household Archaeology**

Critical examination of households as the primary units of production and consumption in pre-industrial societies.

### 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.*

Prerequisites: one credit from CLAS 3P22, 3P23, 3P24, 3P25 or VISA 1F98 (1F90) or permission of the department.

### CLAS 4V32

#### **2002-2003: Political Propaganda in Ancient Art**

Use of art, both public and private, as propaganda: narrative and symbols, metaphor and myth in various media such as sculpture, painting, architecture and the minor arts.

### CLAS 4V50-4V69

#### **Special Subject in Classics**

Study of a special subject is one of the following areas: Greek and Latin linguistics and literature, Greek and Roman history, philosophy and religion. Some emphasis may be given to new directions in research.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one CLAS credit numbered 2(alpha)90 or above or permission of the department.

### CLAS 4V60

#### **2002-2003: Augustus and the Roman Revolution**

Political, social and cultural impact of Augustus, Rome's first emperor.

Political, social and cultural impact of Augustus, Rome's first emperor.

### CLAS 4V90-4V99

#### **Advanced Study and Directed Research**

Individual study in one of the following areas: archaeology, ancient history, classical literature. Content to be determined by the interests of the student and the advice of the department.

Restriction: permission of the department.

## Communications Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

#### COMM 1F90

##### Introduction to 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.*

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, 4 hours per week.*

Restriction: open to COMM (single or combined) and VISA (single or combined) majors until date specified in BIRT guide. Prerequisite: COMM 1F90 or VISA 1P97 (1F96) or permission of the instructor.

Note: enrolment limited to 15 students. Material fee required. Students may need additional materials, which 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; personnel and budgetary processes; the policy process; ethics and accountability.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of COMM 1F90, LABR 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) 3F51 and POLI 3P50.

#### COMM 2M90-2M99

##### Special Studies in Communications

Topics selected on the basis of specific areas of instructional expertise and student interest.

#### COMM 2P15

##### Communications Research Methods

Introduction to qualitative and quantitative methods for communications research.

*Lectures, lab, 3 hours per week.*

Prerequisite: COMM 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM (SOCI) 2F10.

#### COMM 2P20

##### Introduction to Popular Culture

(also offered as FILM 2P20 and PCUL 2P20) Historical, theoretical and critical approaches to various forms of popular culture (e.g., film, music, television, literature, periodicals and advertising).

*Lectures, seminar, lab, 4 hours per week.*

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 in which institutions (e.g., CBC, NFB) and selected artists identify and express a Canadian cultural imagination.

*Lectures, seminar, lab, 4 hours per week.*

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 and SPMA majors with a minimum of 5.0 overall credits or permission of the instructor.

#### 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.



## COMMUNICATIONS STUDIES

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.*

Prerequisite: COMM 1F90 or SOCI 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in RECL 3P14.

### COMM 2P56

#### **Canadian Cinema**

(also offered as FILM 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 2P70

#### **Politics and Popular Music**

(also offered as MUSI 2P70, PCUL 2P70 and POLI 2P70)

Political context and content of popular music. Topics may include theoretical perspectives on popular culture/popular music; the relationship of popular music to public policy, race and gender, popular movements and political identity; political economy of the music business.

*Lectures, seminar, 3 hours per week.*

### 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, which 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 with emphasis on film genres and cultural contexts.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 1F94.

### COMM 3F10

#### **Media Psychology**

(also offered as PSYC 3F10)

Psychological aspects of media as entertainment and information, including social factors and cultural environments (e.g. sex, violence, sports, music, news, talk shows).

*Lectures, lab, 3 hours per week.*

Restriction: open to COMM (single or combined) and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: COMM 1F90 or PSYC 1F90 or permission of the instructor.

### 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 and permission of the instructor.

Note: enrolment limited to 15 students.

Materials fee required.

### COMM 3F71

#### **Internship in Communications Industries**

Internships with an emphasis on 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, Communications Policy and Information Technology stream) majors with a minimum of 10.0 overall credits, a minimum 70 percent major average, a minimum 60 percent non-major average and permission of the Undergraduate Program Adviser.

Note: 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 proposal signed by the faculty member to the Undergraduate Program Adviser before registration.

### COMM 3P16

#### **Mass Media**

(also offered as PCUL 3P16 and SOCI 3P16)

Introduction to methods of media analysis. Comparison of theoretical and methodological approaches to mass media content, structures, institutions and audiences. Analysis of relations among media, culture and society with reference to Canadian examples.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of COMM 2F50, 2P21, SOCI 2P11 and 2P13 (2F10) or permission of the instructor.

### COMM 3P17

#### **Politics and the Mass Media in Canada**

(also offered as PCUL 3P17 and POLI 3P17)

Canadian mass media and their relationship to the political process.

*Lectures, seminar, 3 hours per week.*

Prerequisite: COMM 2F50 or one POLI credit numbered 1 (*alpha*)90 to 1 (*alpha*)99 or permission of the instructor.

### 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.*

Prerequisite: one of COMM 2P20 and 2P21, FILM 2F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM 3F50.

### 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.*

Prerequisite: COMM 3P20 or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM 3F50.

### 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90

### 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

#### Practicum in Business Communications

Practical managerial applications to business communications. Topics include integration of the communication mix and the design and implementation of a communications strategy.

*Lectures, lab, 3 hours per week.*

Restriction: open to COMM (Business Communications stream) majors with a minimum of 9.0 overall credits.

### COMM 3P63

#### Desktop Publishing and Design

(also offered as WRIT 3P63)

Practicum in desktop publishing, layout and design.

*Lectures, lab, 3 hours per week.*

Prerequisite: COMM 2F50 or 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.*

Prerequisite: COMM 2F50.

### 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.*

Prerequisite: one of COMM 2P20 and 2P21, GEOG 2P02, 2P03, 2P06, WISE 2P90 (2F90), 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 BIRT 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.

### COMM 3P88

#### Words in the Mind

(also offered as PSYC 3P88)

Focus on the mental lexicon, including basic components, vocabulary, theories of meaning, metaphors and meaning, selecting and recognizing words in communication.

*Lectures, lab, 3 hours per week.*

Restriction: open to COMM (single or combined) and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: one of COMM 1F90, LING 1F94, PSYC 1F90 or permission of the instructor.

### COMM 3P90

#### Advanced Topics in Computer-Mediated Communication

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.

## COMMUNICATIONS STUDIES

### COMM 3P92

#### **Technology and Culture**

(also offered as FILM 3P92 and PCUL 3P92)

Studies in the effects of technological change on cultural forms and the representations of technology in different media.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: COMM 2P20 or 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 (2F10) or permission of the instructor.

### COMM 3P96

#### **Issues in Popular Culture**

(also offered as FILM 3P96 and PCUL 3P96)

Specialized studies in different media, or the role of different media in specific social, historical or theoretical contexts.

*Lectures, seminar, 3 hours per week, plus weekly lab.*

Prerequisite: COMM 2P20 and 2P21 or FILM 2F90 or permission of the instructor.

### COMM 3P97

#### **Gender and Film**

(also offered as FILM 3P97 and WISE 3P97)

Gendered narratives in classical Hollywood cinema to the late 1950s, with emphasis on film constructions of femininity and masculinity, and the implications of spectatorship and ideology within classical film.

*Lectures, seminar, 3 hours per week, plus weekly film lab.*

Prerequisite: one of COMM 2P20 and 2P21, FILM 2F90, WISE 1F90 and 2P91, or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM 3F97.

### COMM 3P98

#### **Screened Women**

(also offered as FILM 3P98 and WISE 3P98)

Woman-centred films from early to contemporary cinema by women directors from different countries, contextualized in issues of feminist film theory and paradigm shifts in female representation, ideology and spectatorship.

*Lectures, seminar, 3 hours per week, plus weekly film lab.*

Prerequisite: one of COMM 2P20 and 2P21, FILM 2F90, WISE 1F90 and 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM 3F97.

### COMM 3Q99

#### **Media: Fantasy and Reality**

(also offered as PSYC 3Q99)

Media images and reality, the role of absorption as well as other personality and cognitive aspects of the experience of reality vs. fantasy, virtual reality, computer effects and images.

*Lectures, lab, 3 hours per week.*

Restriction: open to COMM (single or combined) and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: COMM 1F90 or PSYC 1F90 or permission of the instructor.

### COMM 4F80

#### **Directed Reading**

Directed individual or group reading in an area of communications studies.

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 proposal 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 70 percent major average, a minimum 60 percent non-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) majors 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 (Information Technology stream) majors with approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Note: enrolment limited.

### COMM 4P23

#### **Research on Popular Culture**

(also offered as PCUL 4P23 and SOCI 4P23)

Advanced research seminar on the relations between mass media and popular culture. Topics vary with the interests of instructor and students.

*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 2P20 or 3P16 (2P23) or permission of the instructor.

## 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.

Completion of this course will replace previous assigned grade in COMM (FILM/PCUL) 4F30.

## COMM 4P31

**Theories of the Visible**

(also offered as FILM 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 COMM (single or combined), FILM (single or combined) and PCUL (single or combined) with approval to year 4 (honours) or permission of the instructor.

Completion of this course will replace previous assigned grade in COMM (FILM/PCUL) 4F30.

## 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 (POLI) (single or combined) majors with a minimum of 14.0 overall credits and either a minimum major average of 70 percent and a minimum non-major average of 60 percent or approval to year 4 (honours).

Prerequisite: COMM 3P17 or POLI 2F30 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 (e.g., 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 HIST 4P55 and PCUL 4P55)

Historical research into the development of Canadian advertising practices in an international context. Examination of the cultural and economic impact of advertising on the mass media, as well as the role of advertising in the formation of a consumer culture.

*Seminar, 3 hours per week.*

Restriction: open to COMM (single or combined), HIST (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 information technology, related project through placement in a publicly or privately funded organization. Restriction: open to COMM (Information Technology stream) majors with 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.

## 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 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, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to COMM Co-op students.

# Community Health Sciences

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

### CHSC 1F90

#### Introduction to Community Health Sciences

Issues and controversies in the area of health. Aspects of health status, determinants of health and personal health.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in HLST 1F90 and PHED 2P41.

### CHSC 1P99

#### Foundations of Applied Health Science Inquiry

(also offered as PEKN 1P99, RECL 1P99, SPMA 1P99 and TOUR 1P99)

Multidisciplinary approaches to critical inquiry in applied health science.

Introduction to investigative methods of research and critical analysis in the fields of health, sport, recreation and physical activity.

*Lectures, alternating weeks; seminar, alternating weeks; 3 hours per week.*

Restriction: open to students admitted to CHLH, CHSC, HLSC, WKHL, BPhEd/BEEd, PEKI, PEKN, RECL, SPMA and TOUR.

Completion of this course will replace previous assigned grade in CHSC 1P90 and PHED 1P99.

### 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 (HLST/SPMA) 2P93 and CHSC (HLST) 2P94.

### 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 CHSC, CHLH, HLSC, NUSC and WKHL students until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Note: this course provides foundation for students seeking Cardiac Rehabilitation Certification.

Completion of this course will replace previous assigned grade in HLST 2P09 and PHED 2P09.

### CHSC 2P15

#### Processes of Health and Wellness

Holistic nature of health and wellness; environmental and government roles; management of alternatives to traditional medicine. Concepts and applications of biophysical and psycho-social dimensions of health and wellness over the lifespan. Traditional and alternative medical responses.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors with a minimum of 13.5 overall credits.

Note: CHSC (HLST) 2P21 is recommended.

Completion of this course will replace previous assigned grade in CHSC 4P51 and HLST 4P51.

### CHSC 2P21

#### The Health of Canadian Society

Health status of Canadians and the history and structure of the health care system.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC, NUSC and WKHL majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 2P21 and SPMA 2P21.

### 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, SPMA and WKHL majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 2P40 and SPMA 2P40.

### 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 (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 2P49.

### CHSC 2P50

#### Introduction to Human Sexuality

Research methodology, theoretical and biological foundations.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC, NUSC, and WKHL majors until date specified in BIRT guide. After that date open to WISE majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 2F50 and 2P50.

### 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, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: CHSC (HLST) 1F90 and 2P50.

Completion of this course will replace previous assigned grade in HLST 2F50 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), HLSC and WKHL majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

#### CHSC 2P91

##### Nutrition

Introduction to nutrition with emphasis on diet for health maintenance.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC, NUSC and WKHL majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 2P91 and SPMA 2P91.

#### 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, TOUR and WKHL majors until date specified in BIRT guide.

Prerequisite: PHED 2P04 or (CHSC 2P93).

Completion of this course will replace previous assigned grade in HLST 2P92, SPMA 2P92 and 2P94.

#### CHSC 2P97

##### Global Issues in Infectious Diseases

World changes and their influence on emergence and re-emergence of infectious organisms; antimicrobials and drug resistance, immunizations, the immuno-compromised host, hospitalary infections, food and water safety, infectious etiology of cancer and other chronic diseases, infection and terrorism, bioterrorism.

*Lectures, 3 hours per week.*

Restriction: open to CHSC, CHLH,

HLSC and WKHL majors until date specified in BIRT guide.

Prerequisites: CHSC 1F90 and BIOL 1F90.

#### CHSC 2P99

##### Clinical Health Assessments

Techniques of physiological evaluation and health assessment, their theoretical basis and clinical application.

*Lectures, lab, 4 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Note: course may be used towards accreditation as certified fitness consultant (CFC).

Completion of this course will replace previous assigned grade in HLST 2P99 and 3P54.

#### CHSC 2Q07

##### Introduction to Research Design and Evaluation

Principles and techniques for research. Issues concerning the construction, administration and evaluation of data collection as well as the processing and analysis of data.

*Lectures, lab, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors.

Prerequisite: CHSC 1P99 or COSC 1P95 or permission of the instructor.

Completion of this course will replace previous assigned grade in HLST 2P07, PHED 2P08, 2Q07, RECL 2P07, SPMA 2P07, 2Q07 and TOUR 2P07.

#### CHSC 3F20

##### Program Planning and Evaluation

Theoretical knowledge and practical skills related to planning, implementing and evaluating health education, health behaviour change and health communication programs.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors with a minimum of 9.0 overall credits.

Prerequisite: CHSC (HLST) 2Q07 (2P07).

Completion of this course will replace previous assigned grade in HLST 3F20 and SPMA 3F20.

#### 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 CHSC, CHLH, HLSC and WKHL majors.

Prerequisite: CHSC (HLST) 2P09.

#### CHSC 3P19

##### Introduction to Pharmacology

(also offered as NUSC 3P19)

Drug absorption distribution, biotransformation, clearance and mechanisms of action. Antibiotics, nervous, cardiovascular and endocrine system drugs. Drug development and regulations.

*Lectures, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC, NUSC and WKHL majors.

Prerequisite: CHSC (HLST) 2P09.

#### CHSC 3P21

##### Issues in Health Policy

Effects of Canadian health law and policy on individuals and society from birth to death. Topics include health care reform, genetics, reproductive technologies, assisted suicide, legal status of the fetus, biotechnology, regulation of health care providers, confidentiality of information and ethics in health research.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors.

Prerequisite: CHSC (HLST) 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: RECL 2P11.

Completion of this course will replace previous assigned grade in HLST 3P23.

#### CHSC 3P26

##### Medical Sociology

(also offered as SOCI 3P26)

Social factors associated with psychiatric

## COMMUNITY HEALTH SCIENCES

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 BIRT guide. Students must have a minimum 8.0 overall credits. Prerequisite: CHSC 1F90 or SOCI 1F90 or permission of the instructor.

### 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 BIRT guide. Students must have a minimum 8.0 overall credits. Prerequisite: CHSC 1F90 or 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 CHSC, CHLH, HLSC and WKHL 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.

Completion of this course will replace previous assigned grade in HLST 3P30

### CHSC 3P33

#### Internship in Community Health

Clinical/field experience within the many areas of Community Health.

Restriction: open to CHSC, CHLH, HLSC and WKHL 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.

Completion of this course will replace previous assigned grade in HLST 3P33.

### CHSC 3P40

#### Introduction to Health Issues in the Workplace

Exploration of current research, issues, opportunities and challenges in workplace health.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors until date specified in the BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 3P40.

### CHSC 3P50

#### Health Promotion

Strategies and approaches to health promotion; the relationship between theory and practice, historical development and future directions.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors with a minimum 9.0 overall credits.

Prerequisite: CHSC (HLST) 2Q07 (2P07).

Completion of this course will replace previous assigned grade in HLST 3P50.

### 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 CHSC, CHLH, HLSC and WKHL majors until date specified in the BIRT guide.

Prerequisite: CHSC 1F90.

Completion of this course will replace previous assigned grade in CHSC (HLST) 3V52.

### CHSC 3P59

#### Gender and Health

Comparative analysis of men's and women's health.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum 9.0 overall credits.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 3P59.

### 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 CHSC, CHLH (single or combined) CHYS BA/BEed or CHYS 2F10, HLSC and WKHL majors until date specified in BIRT guide.

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 3P80.

### CHSC 3P91

#### Cardiac Rehabilitation

Mechanisms of heart disease and 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 CHSC, CHLH, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum 9.0 overall credits.

Note: students gain valuable practical experience which may be used towards accreditation as a Cardiac Rehab Specialist. Students must have CPR.

Completion of this course will replace previous assigned grade in HLST 3P91.

### CHSC 3P92

#### Electronic Curriculum

Introduction to electronic curriculum and development of health education units in multimedia environments.

*Lectures, lab, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum 9.0 overall credits.

Prerequisites: CHSC (HLST) 1F90; CHSC 1P99 or COSC 1P95.

Co-requisite: CHSC (HLST) 3P50.

Completion of this course will replace previous assigned grade in HLST 3P92.

### 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 CHSC, CHLH, HLSC and WKHL majors until date specified in BIRT guide. Students must

have a minimum 9.0 overall credits.  
Prerequisite: CHSC (HLST) 2P91.  
Completion of this course will replace previous assigned grade in HLST 3V93.

**CHSC 3P96**  
**The Development of Healthy Communities**

Social, economic and environmental factors and processes which influence community well-being.

*Lectures, seminar, 3 hours per week.*

Prerequisite: CHSC (HLST) 1F90.

Completion of this course will replace previous assigned grade in HLST 3P96 and 3V96.

**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 CHSC, CHLH, HLSC, NUSC and WKHL majors.

Prerequisite: BIOL 1F90.

**CHSC 3P99**  
**Advanced Clinical Health Assessments**

Advanced methods in exercise science, lifestyle counselling and exercise prescription with an emphasis on community and workplace applications.

*Lectures, lab, 4 hours per week.*

Prerequisites: CHSC (HLST) 1F90, 2P94 (HLST 2P92) and 2P99 (HLST 3P54).

Note: may be used towards accreditation as a professional fitness and lifestyle consultant (PFLC).

Completion of this course will replace previous assigned grade in HLST 3P55 and 3P99.

**CHSC 3Q07**  
**Quantitative Analysis**

Advanced univariate statistics from conceptual and practical perspectives.

*Lectures, lab, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors.

Prerequisite: CHSC (HLST) 2Q07 (2P07).

Note: it is recommended that students enrol in duration 2 of CHSC 3Q07.

Completion of this course will replace previous assigned grade in HLST 3P07, PEKN 3P08, PHED 3P08, 3Q07, RECL 3P07,

SPMA 3P07, 3Q07 and TOUR 3P07.

**CHSC 3Q17**  
**Qualitative Analysis**

Theories, approaches, designs, methods and procedures for conducting evaluative analyses.

*Lectures, seminar, 3 hours per week.*

Restriction: open to, CHSC, CHLH, HLSC and WKHL majors.

Prerequisite: CHSC (HLST) 2Q07 (2P07).

Note: it is recommended that students enrol in duration 2 of CHSC 3Q17.

Completion of this course will replace previous assigned grade in HLST 3P17, PEKN 3P18, PHED 3P18, 3Q17, RECL 3P17, SPMA 3P17, 3Q17 and TOUR 3P17.

**CHSC 3V50-3V99**  
**Special Topics in Community Health Sciences**

Courses in specialized areas within health and wellness.

Restriction: open to CHSC, CHLH, HLSC and WKHL majors with a minimum of 9.0 overall credits.

Completion of this course will replace previous assigned grade in HLST 3V50-3V99.

**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.

*Seminar, 1 hour per week in alternate weeks.*

Restriction: open to CHSC, CHLH, HLSC and WKHL 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 bi-weekly seminar will be scheduled by the department.

Completion of this course will replace previous assigned grade in HLST 4F52.

**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 BIRT guide. Students must have approval to year 4 (honours).

Prerequisite: one of CHSC 3F20, 3P26, 3P27, SOCI 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 CHSC, CHLH, HLSC and WKHL majors with a minimum of 13.5 overall credits and a minimum 75 percent major average and permission of the Department.

Note: forms available from the department.

Completion of this course will replace previous assigned grade in HLST 4P30.

**CHSC 4P50**  
**Research Methods in Epidemiology**

Epidemiological research methods and identification of risk factors.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors with a minimum of 13.5 overall credits.

Completion of this course will replace previous assigned grade in HLST 4P50.

**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 (HLST) 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.



## COMMUNITY HEALTH SCIENCES

### 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 CHSC, CHLH, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum of 13.5 overall credits.

Prerequisites: CHSC (HLST) 2P09 and 3P80.

Completion of this course will replace previous assigned grade in HLST 4P80.

### CHSC 4P92

#### **Interactive Technologies in Health Promotion**

Design and development of web-based interactive multimedia approaches to health promotion.

*Lectures, 3 hours per week.*

Restriction: open to CHSC, CHLH, HLSC and WKHL majors with a minimum 13.5 overall credits and a minimum 75 percent major average.

Prerequisite: CHSC (HLST) 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 CHSC, CHLH, HLSC and WKHL majors with approval to year 4 (honours).

Prerequisites: CHSC 2F95 and BIOL 2F01.

Note: BIOL 3P93 or 3P94 recommended.

### 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 CHSC, CHLH, HLSC and WKHL majors with approval to year 4 (honours).

Prerequisite: CHSC (HLST) 2Q07 (2P07).

Completion of this course will replace previous assigned grade in HLST 4P99.

## CO-OP COURSES

### CHSC 0N00

#### **Co-op Work Placement**

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to WKHL Co-op students.

### CHSC 0N01

#### **Co-op Work Placement I**

First co-op work placement (4 months) with an approved employer.

Restriction: open to WKHL Co-op students.

### CHSC 0N02

#### **Co-op Work Placement II**

Second co-op work placement (4 months) with an approved employer.

Restriction: open to WKHL Co-op students.

### CHSC 0N03

#### **Co-op Work Placement III**

Third co-op work placement (4 months) with an approved employer.

Restriction: open to WKHL Co-op students.

### CHSC 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, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to WKHL Co-op students.

## Computer Science

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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.

#### 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 1P12

##### 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; tutorial, 1 hour per week.*

Prerequisite: COSC 1P03.

Note: COSC 1P03 may be taken concurrently.

#### 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 or CSDT 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 or CSDT 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 or CSDT 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 CSDT majors.

Prerequisites: COSC 1P03 (minimum 60 percent); MATH 1P66 and 1P67.

#### 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 1P12 (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 2P50

##### The Computing Professional

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*

## COMPUTER SCIENCE

*per week.*

Prerequisite: COSC 1P03 (minimum 60 percent).

Note: this course involves seminars and considerable written work. A good command of written and spoken English is required.

### COSC 2P89

#### Advanced Internet and Intranet

Concepts and techniques required for building and maintaining advanced interactive Web sites. Topics include XML and SGML, database connectivity and forms handling, basic animation, graphics optimization for the Web, scripting, advanced searching, Web design for accessibility.

*Lectures, 3 hours per week, lab/seminar, 2 hours per week.*

Prerequisite: COSC 1P03 (minimum 60 percent).

### COSC 2P90

#### Programming Languages and Object-Orientation

Fundamental concepts of programming languages including syntax, semantics, control, data types and abstraction. Programming paradigms including imperative, applicative, logic and object-oriented. Object-orientation including inheritance and polymorphism. Introduction to object modeling.

*Lectures, 3 hours per week, lab, 2 hours per week.*

Prerequisite: COSC 1P03 (minimum 60 percent).

Completion of this course will replace previous assigned grade in COSC 2P91 and 2P92.

### 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), 1P12 (minimum 60 percent) and 2P03 (minimum 60 percent).

### COSC 2P93

#### Logic Programming

Predicate logic, symbolic and declarative programming, resolution theorem prov-

ing, 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 2P50 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 1P12 (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-com-

merce. 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 1P12 (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

**Design of User Interfaces**

Topics include human factors (design and support of systems for human use), command languages, grammars, menu and window systems, user documentation and on-line help systems.

*Lectures, 3 hours per week, lab/seminar, 2 hours per week.*

Prerequisite: COSC 2P50 (minimum 60 percent).

Completion of this course will replace previous assigned grade in COSC 3P04.

## 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 and CSDT 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 and CSDT majors.

## COSC 3V95

**2002-2003: Embedded Software**

Issues in embedded software, including 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 1P12 (minimum 60 percent) and 2P13 (minimum 60 percent).

Note: completion of PHYS 1F90 and COSC 2P91 is recommended before taking this course.

## 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 and CSDT 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 1P12 (minimum 60 percent), 2P13 (minimum 60 percent) and 2P91 (minimum 60 percent).

## COSC 4P14

**Computer Networks**

Principles of computer network design, implementation and performance evaluation. Topics include principles of network protocol design and implementation, operating system and application programming interfaces, algorithms and issues in client and server software design, examples of Internet clients and servers, network security, management and performance evaluation (Knowledge of C assumed).

*Lectures, 3 hours per week.*

Prerequisites: COSC 2P13 (minimum 60 percent), 2P91 (minimum 60 percent), 3P01 (minimum 60 percent); MATH 1P98 or 3F65.

## 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 1P12 (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 applica-

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tions 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 1P12 (minimum 60 percent), 2P90 (minimum 60 percent), 3P71 (minimum 60 percent) and MATH 1P12.

Note: completion of PHYS 1F90 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 4V90-4V99

#### Computing Topics II

Selected topics in computer science.

*Lectures, seminar, 3 hours per week.*

Restriction: open to COSC (single or combined), BCB and CSDT majors.

## CO-OP COURSES

### COSC 0N01

#### Co-op Work Placement I

First co-op work placement (4 months) with an approved employer.

Restriction: open to COSC 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 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 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 Co-op students.

## INTERNSHIP COURSE

### COSC 2N90

#### Internship

Work placement of 8-16 months duration with an approved employer.

Restriction: only open to students accepted into the Internship option.

Note: interviews with employer and student and completion, by the student, of a work report.

# Contemporary Cultural Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### CCST 2M90-2M99

#### Special Studies in Fine Arts

Studies of a particular art form (e.g., dance) or of a selected area across a range of forms (e.g., arts administration). Topics to be announced by the department.

*Lectures, seminar, 3 hours per week.*

### CCST 4F40

#### Arts Administration

Issues in production, administration and organization: theatre structures, creative teams, work production, operation and outreach.

*Lectures, seminar, workshop, 3 hours per week; additional production time as required.*

Restriction: permission of the instructor.

Note: materials fee may be required.

Completion of this course will replace previous assigned grade in THEA 4F40.

### CCST 4F99

#### Honours Thesis

Critical, historical or creative project in fine 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.

# Dramatic Arts

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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 Dramatic Arts course that may be taken for credit in English.

\* DART 1F93

### Introduction to Drama

Fundamentals of dramatic criticism. Study of selected dramatic texts from ancient Greece to the present; emphasis on genre, theatrical and literary, conventions and historical context.

*Lectures, seminar, 3 hours per week.*

Co-requisite for Dramatic Arts majors: DART 1F99.

Completion of this course will replace previous assigned grade in DRAM 1F93.

DART 1F99

### Introductory Theatre Practice

Comparative world overview of theatre theory and practice: where, when, why and how theatre occurs. Labs in the fundamentals of acting and theatre production.

*Lectures, workshops, voice, 5 hours per week; additional rehearsal time as required.*

Restriction: permission of the instructor (audition required). Consult the Department.

Co-requisite for Dramatic Arts majors: DART (DRAM) 1F93.

Note: contact the Department for audition details by May 1. 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 fees required.

Completion of this course will replace previous assigned grade in THEA 1F99.

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 focusses 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 (THEA) 1F99, (DIEE) 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. Enrolment limited to 20 students.

Completion of this course will replace previous assigned grade in THEA 2F04.

DART 2F41

### Stage Craft

Theory and application of methods of technical theatre production.

*Lectures, labs, 5 hours per week.*

Prerequisites: DART (DRAM) 1F93 and (THEA) 1F99.

Co-requisite for Theatre stream students: DART 2P42.

Note: materials fees required.

Completion of this course will replace previous assigned grade in THEA 2F41.

\*DART 2F95

### The Forms of Comedy

Comedy and related dramatic forms (e.g., farce) in their theatrical and social contexts and in relation to the development of ideas about comedy.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 1F93 or permission of the instructor.

Note: for 2002-03, students may substitute DART 2V93 and 2V94 for DART 2F95.

Completion of this course will replace previous assigned grade in DRAM 2F95.

\*DART 2F97

### Canadian Drama

The Canadian experience as expressed on stage, in radio and on television, using English-language plays and French-language plays (in translation).

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 1F93 or permission of the instructor.

Note: students with year 2 standing in ENGL are permitted to register without the prerequisite.

Completion of this course will replace previous assigned grade in DRAM 2F97.

\*DART 2F98

### The Forms of Tragedy

Two major periods in the development of the genre: the Classical period and the Renaissance; modern and contemporary dramatic response to the problems of the tragic vision.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 1F93 or permission of the instructor.

Note: students with year 2 standing in ENGL are permitted to register without the prerequisite. For 2002-03, students may substitute DART 2V93 and 2V94 for DART 2F98.

Completion of this course will replace previous assigned grade in DRAM 2F98.

DART 2M90-2M99

### Special Studies in Dramatic Arts

Note: materials fees 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. Focus on basic theatre elements, practical strategies and active participation.

*Lectures, workshop, 3 hours per week.*

Restriction: open to students with a minimum of 4.0 overall credits and DIEE certificate students.

Note: enrolment limited to 20 students per section. Materials fee required.

Completion of this course will replace previous assigned grade in DIEE 2P01.

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.*

Prerequisite: DART (DIEE) 2P01 or permission of the instructor.

Note: enrolment limited to 20 students per section. Materials fee required.

Completion of this course will replace previous assigned grade in DIEE 2P02.

**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.*

Prerequisites: DART (DRAM) 1F93 and (THEA) 1F99.

Co-requisite for Theatre stream students: DART 2F41.

Note: enrolment limited to 30 students. Students are chosen on the basis of academic standing in DART 1F93 and all components of DART 1F99. Materials fee required.

Completion of this course will replace previous assigned grade in THEA 2F42.

**DART 2P51**

**Performance I: Physically-Based Theatre**

Introduction to techniques and practical theory in image, movement, semi- and non-verbal theatre. Exploration of spontaneity, impulse and energy commitment. May include personal clown and a variety of mask techniques.

*Lectures, workshop, lab (movement and voice), 5 hours per week.*

Prerequisite: DART (THEA) 1F99 or permission of the instructor.

Completion of this course will replace previous assigned grade in THEA 2F50.

**DART 2P52**

**Performance II: Text-based Theatre**

Practical application of text analysis, character development, scene work, developing and sustaining dramatic action, plus exploration of text-based acting theories (e.g. Stanislavski).

*Lectures, workshop, lab (movement and voice), 5 hours per week.*

Prerequisite: DART (THEA) 1F99, or permission of the instructor.

Completion of this course will replace previous assigned grade in THEA 2F50.

**DART 2P62**

**Theatrical Design I**

Introduction to design for the theatre; vocabulary, concepts and practice.

*Lectures, seminar, workshop, 5 hours per week; additional production time as required.*

Prerequisite: DART (THEA) 1F99 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F41.

**DART 2P91**

**Canadian Radio and Television Drama**

The aesthetics and distinctive characteristics of Canadian radio and television anthology drama.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 1F93 or FILM 2P20 and 2P21 or permission of the instructor.

Note: year 3 students in the Humanities are permitted to register in this course without the prerequisite.

Completion of this course will replace previous assigned grade in DRAM 2F97 and 2P91.

**DART 2V90-2V99**

**Special Studies in Dramatic Arts**

Note: materials fees may be required.

**DART 2V93**

**2002-2003: Gender and Performance I**

Representations of gender in performance, throughout theatre history and dramatic literature, past and present. Lectures, seminar, 3 hours per week.

Prerequisite: DART (DRAM) 1F93 or permission of the instructor.

Note: for 2002-03 students may substitute DART 2V93 and 2V94 for DART 2F95 or 2F98.

**DART 2V94**

**Gender and Performance II: Praxis**

Applied study (workshop/production) of gender in performance.

*Lectures, seminar, lab, 4 hours per week.*

Prerequisite: DART (DRAM) 1F93, (THEA) 1F99 or permission of the instructor.

Co-requisite: DART 2V93.

Note: for 2002-03, students may substitute DART 2V93 and 2V94 for DART 2F95 or 2F98.

**DART 3F00**

**Theatre History and Theory**

Studies in theatre history and theoretical perspectives on theatre.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 1F93, (THEA) 1F99 or permission of the instructor.

Completion of this course will replace previous assigned grade in DRAM (THEA) 3F00.

**DART 3F12**

**Theatre in Education: Alternative Forms of Theatre**

Literature-based, focussing on personal and group presentation through story theatre, readers' theatre, public speaking, choral speaking, dramatization and ensemble theatre; design, preparation and presentation of a group production in a genre of choice.

*Lectures, workshop, 3 hours per week; additional production and rehearsal time as required.*

Prerequisite: DART (THEA) 1F99, (DIEE) 2P01 or permission of the instructor.

Note: students with equivalent experience may register without prerequisite. Materials fee required.

Completion of this course will replace previous assigned grade in DIEE 3F12.

**DART 3F50**

**Performance III: Acting Studies**

Further studies in acting technique emphasizing analysis and creation of character and context.

*Lectures, seminar, workshop, 5 hours per week.*

Prerequisites: DART 2P52 (THEA 2F52); one of DART (THEA) 2F04, 2P51 (2F52), (DIEE) 3F12 or permission of the instructor.

Note: enrolment restricted to 16 students. Completion of this course will replace previous assigned grade in THEA 3F50.

**DART 3F52**

**Directing**

Studies in directing. To bring text from page to stage focussing on dramaturgy, total theatre composition and team management.



## DRAMATIC ARTS

*Lectures, seminar, workshop, 5 hours per week; additional production time as required.*

Restriction: students must have a minimum of 10.0 overall credits and permission of the instructor.

Prerequisite: DART (DRAM) 1F93, (THEA) 1F99.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F52.

### DART 3F91

#### Scriptwriting

Theory and practice of writing with action, character and dialogue. Workshops on scripts in progress.

*Seminar, workshop, 3 hours per week.*

Restriction: students must have a minimum of 10.0 overall credits and permission of the instructor.

Prerequisite: DART (DRAM) 1F93.

Note: admission will be based upon submission of a sample of written work and a list of plays read in recent past. Completion of this course will replace previous assigned grade in THEA 3F91.

### DART 3F93

#### Modern and Contemporary Drama and Theatre

Major dramatic and theatrical movements of the 20th and 21st centuries, with special attention to contemporary dramatists.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 2F95, 2F97, 2F98 or permission of the instructor.

Note: students with year 3 standing in ENGL are permitted to register in this course without the prerequisite.

Completion of this course will replace previous assigned grade in DRAM 3F93.

### 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 15 students. Materials fee required. Students may need additional materials which they must supply.

### \*DART 3F97

#### Shakespeare

A critical study of Shakespeare's plays in their literary and theatrical context.

*Lectures, seminar, 3 hours per week.*

Prerequisite: DART (DRAM) 2F95, 2F97, 2F98 or permission of the instructor.

Note: students with year 3 standing in ENGL are permitted to register without the prerequisite.

Completion of this course will replace previous assigned grade in DRAM 3F10, 3F97 and ENGL (GBLS) 2F97.

### 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 and the Chair before registration.

Completion of this course will replace previous assigned grade in DRAM 3F99 and THEA 3F99.

### DART 3M90-3M99

#### Advanced Special Studies in Dramatic Arts

Completion of this course will replace previous assigned grade in DIEE 3M90-3M99.

### DART 3P03

#### Structuring for Drama: Creating the Fictional Context

Composing contexts for cross-curricular learning through the arts in schools and elsewhere.

*Workshops, seminar, 3 hours per week.*

Prerequisite: DART (DIEE) 2P01 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in DIEE 3P03.

### 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.*

Prerequisite: DART (DIEE) 2P01 or permission of the instructor.

Note: enrolment limited to 22 students. Materials fee required.

Completion of this course will replace previous assigned grade in DIEE 3P04.

### 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.

Prerequisite: DART (DIEE) 2P01 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in DIEE 3P05.

### 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.*

Prerequisite: DART (THEA) 1F99, (DIEE) 2P01 or permission of the instructor.

Note: enrolment limited. Materials fee required.

Completion of this course will replace previous assigned grade in DIEE 3P06.

### 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.*

Prerequisite: DART (THEA) 1F99, (DIEE) 2P01 or permission of the instructor.

Note: students with equivalent experience may register without prerequisite.

Enrolment limited to 20 students. Materials fee required. Completion of this course will replace previous assigned grade in DIEE 3P07.

**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.*

Prerequisites: DART (THEA) 2F41 and 2P42 (2F42) or permission of the instructor.

Note: stage managing a production. Materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F40.

**DART 3P62  
Theatrical Design II**

Advanced design concepts and practical applications.

*Lectures, seminar, workshop, 5 hours per week; additional production time as required.*

Prerequisite: DART (THEA) 1F99, 2P62 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F41.

**DART 3V90-3V99  
Advanced Special Studies in Dramatic Arts**

**DART 3Y43  
Theatrical Lighting**

Studies in lighting operation and design including production work.

*Lectures, seminar/lab, 5 hours per week; additional production time as required.*

Prerequisite: DART (THEA) 2F41 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F40.

**DART 3Y44  
Theatrical Props Production**

Study and construction of theatrical props; may include production work.

*Lectures, seminar/lab, 5 hours per week; additional production time as required.*

Prerequisites: DART (THEA) 2F41 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F40.

**DART 3Y45  
Scenic Painting**

Theories and practice of painting scenery for theatrical use; may include production work.

*Lectures, seminar/lab, 5 hours per week; additional production time as required.*

Prerequisites: DART (THEA) 2F41 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F40.

**DART 3Y46  
Make-up and Wigs**

Introduction to creating character and special effects through make-up; introduction to use and maintenance of wigs; may include production work.

*Lectures, seminar/lab, 5 hours per week; additional production time as required.*

Prerequisites: DART (THEA) 2F41 or permission of the instructor.

Note: materials fee required.

Completion of this course will replace previous assigned grade in THEA 3F40.

**DART 4F56  
Advanced Studies in Theatre**

Collaborative work in one or more theatre productions.

*Lectures, seminar/lab, 5 hours per week; additional production time as required.*

Restriction: approval to year 4 and permission of the instructor.

Prerequisite: DART (THEA) 3F50, 3F52 or permission of the instructor.

Co-requisite for Theatre stream students: DART (THEA) 4F90.

Completion of this course will replace previous assigned grade in THEA 4F56.

**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).

Completion of this course will replace previous assigned grade in DRAM (THEA) 4F90.

**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.

Completion of this course will replace previous assigned grade in DRAM 4F94 and THEA 4F94.

**CO-OP COURSES**

**DART 0N00  
Co-op Work Placement**

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to DART Co-op students.

Completion of this course will replace previous assigned grade in THEA 0N00.

**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.

Completion of this course will replace previous assigned grade in THEA 0N01.

**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.

Completion of this course will replace previous assigned grade in THEA 0N02.

**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.

## DRAMATIC ARTS

Completion of this course will replace previous assigned grade in THEA 0N03.

### 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, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to DART Co-op students.

Completion of this course will replace previous assigned grade in THEA 0N90.

## Earth Sciences

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

#### ERSC 1F01 Planet Earth

Earth as a member in the solar system, minerals and rocks, plate tectonics, volcanoes, and earthquakes; the fossil record and the history of life; glacial geology, geomorphology, earth surface processes; global warming, climate change and paleoclimatology; environmental geology, acid precipitation, soil-groundwater contamination, general and hazardous waste disposal.

*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.

Completion of this course will replace previous assigned grade in ERSC 1F90 and 1F95.

#### 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 week alternating weeks.*

Note: 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 and 1F95.

#### ERSC 2P00 Natural Hazards (also offered as ENVI 2P00)

Identification of naturally occurring atmospheric and geological hazards such as earthquakes, landslides, floods and their impacts on urban planning and development, infrastructure, public safety and policy issues.

*Lectures, lab, 5 hours per week.*

Prerequisite: one of ERSC 1F01 (1F95), 1F90, GEOG 1F91.

Completion of this course will replace previous assigned grade in ERSC 2P61 or ERSC 2P64.

#### ERSC 2P02 Introduction to Oceanography

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.

#### 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) or GEOG 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.*

Prerequisites: one of ERSC 1F01 (1F95) and MATH 1P98, CHEM 1F92 (CHEM 1P80 and 1P81 or CHEM 1P90 and 1P91), GEOG 1F91 and MATH 1P98, or permission of the instructor.

#### ERSC 2P10 Sedimentology

Basic clastic sedimentology (grain size, shape, porosity/permeability, fabric) including fundamentals of unidirectional and oscillatory water flows, sediment transport under such flows and resulting sedimentary structures. Clastic rock classification.

*Lectures, lab, 5 hours per week.*

Prerequisite: ERSC 1F01 (1F95).

Completion of this course will replace previous assigned grade in ERSC 2P31.

#### 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 2P12 Earth Science Methods

Introduction to the study and description, in the field and the lab, of surficial deposits, sedimentary, igneous and metamorphic rocks; analysis of geological maps and imagery.

*Lectures, lab, field trips 6 hours per week, weekend field trips taken early in the semester.*

Prerequisites: ERSC 1F01.

Note: field trips taken during lab periods and weekends to areas of geological interest.

## 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 2P32

**Paleontology and Earth History**

Fossil preservation and bias in the fossil record; ontogeny and growth of invertebrates; functional morphology of selected invertebrate groups; evolution and speciation; paleoecology; mass extinctions in the fossil record. Labs deal with the classification and morphology of the major invertebrate groups and principles of taxonomy.

*Lectures, lab, local field trip, 5 hours per week.*

Prerequisite: ERSC 1F01 (1F95) or BIOL 1F90 or permission of the instructor.

## 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.*

Prerequisites: ERSC 2P12.

Completion of this course will replace previous grade in ERSC 2P01.

## ERSC 3P10

**Stratigraphy and Carbonate Sedimentology**

Fundamentals of lithostratigraphy and introduction to the North American Stratigraphic code; subsurface geology techniques, subsurface mapping and correlation; geology and geological history of southern Ontario; introduction to facies and facies models; sequence stratigraphy. Formation of carbonate and chemical minerals and sediments; environments of formation; classification of carbonate minerals, rocks and environments of deposition; limestone diagenesis; dolomitization; hand specimen, thin section and rock section/sequence descriptions.

*Lectures, lab, 6 hours per week.*

Prerequisite: ERSC 2P10.

Completion of this course will replace previous grade in ERSC 3P71.

## 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 (CHEM 1P80 and 1P81 or CHEM 1P90 and 1P91).

## 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, 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 2P10 or 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 or 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 (CHEM 1P80 and 1P81 or CHEM 1P90 and 1P91).

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 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 3P50

**Geological Foundations of Wine Terroirs**

(also offered as OEVI 3P50)

Influence of bedrock, unconsolidated sediments and groundwater in glaciated, temperate and semi-desert terroirs. Field examination of Niagara appellation vineyards and the geological environs of the sub-appellations.

*Lectures, lab, 6 hours per week.*

Prerequisite: ERSC 2P05 or permission of the instructor.

## ERSC 3P61

**Groundwater Geology**

Occurrence, movement, exploration and exploitation of groundwater including the study of groundwater flow and principles of well hydraulics.

*Lectures, lab, 6 hours per week.*

Prerequisites: ERSC 1F01 (1F95) and MATH 1P97.

## 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 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**

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 2P12.

## ERSC 3V80-3V99

**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 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.

*Lab, seminar, 3 hours per week.*

Prerequisite: ERSC 3P10.

## 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.

## EARTH SCIENCES

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 with emphasis on 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: one of ERSC 3P24, 3P26 or permission of the instructor.

### ERSC 4P31

#### **Applied Environmental Geochemistry**

Principles of environmental geochemistry and toxicology; aqueous geochemistry and water quality; formation of soils/sediments and impact of anthropogenic activities; nature and sources of hazardous

substances; treatment-disposal of hazardous materials; assessment of anthropogenic contamination/pollution including risk assessment; watershed study and report assessing quality and chemistry, sources and impacts.

*Lectures, lab, local field work, 6 hours per week.*

Prerequisite: ERSC 3P31 or 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 2P10 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.

## Economics

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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 the nature of economics, the price system, demand, production and cost, markets and pricing, factor pricing and the distribution of income.

*Lectures, tutorial, 4 hours per week.*

Note: may be taken concurrently with, before or after ECON 1P92.

#### ECON 1P92

##### Principles of Macroeconomics

Introduction to macroeconomics. Topics include the nature of economics, the determination and control of national income, money, banking and monetary policy, macroeconomic policy and the 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 the Canadian economy, from the 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 commercial expansion of Europe in the 16th century, the 17th-century depression and the Industrial and Agricultural revolutions of the late 18th and the 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

The 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.

*Lectures, tutorial, 4 hours per week.*

Prerequisite: ECON 1P92.

#### ECON 2P23

##### Managerial Economics

The 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,



## ECONOMICS

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.

Completion of this course will replace previous assigned grade in ENVP 2P28.

### ECON 2P31

#### Intermediate Microeconomics II

Topics include models of market structure such as monopoly, duopoly, oligopoly and monopolistic competition; the demand and supply of factors of production under perfect and imperfect markets. Introduction to the general equilibrium model and welfare theory. Applications are emphasized.

*Lectures, 3 hours per week.*

Prerequisite: ECON 2P21 or 2P23.

### ECON 2P32

#### Intermediate Macroeconomics II

An extension of the macroeconomic model to include the price level. Both aggregate demand and aggregate supply are studied. Topics include money demand and supply, inflation, unemployment and the effectiveness of monetary and fiscal policy in an open economy.

*Lectures, 3 hours per week.*

Prerequisite: ECON 2P22.

### ECON 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 2P86

#### Women in the Economy

(also offered as 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 earnings difference by gender; the 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: open to WISE majors until date specified in the BIRT guide. 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, MATH 1P97 and 1P98.

### 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.

Completion of this course will replace previous assigned grade in ECON 3F02.

### 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.

Completion of this course will replace previous assigned grade in ECON 3F02.

## 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.

Completion of this course will replace previous assigned grade in ECON 3F03.

## 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.

Completion of this course will replace previous assigned grade in ECON 3F03.

## 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.

Completion of this course will replace previous assigned grade in ECON 3F06.

## 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.

Completion of this course will replace previous assigned grade in ECON 3F07.

## 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.

Completion of this course will replace previous assigned grade in ECON 3F07.

## 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.

Note: ECON 3P93 is recommended.

## ECON 3P14

**Public Sector Economics: Expenditure**

The role and nature of the government sector; economics of public expenditure with reference to equity and efficiency considerations; techniques of public expenditure analysis; intergovernmental fiscal relations and economics of public debt.

*Lectures, 3 hours per week.*

Prerequisite: ECON 2P21 or 2P23.

## ECON 3P15

**Public Sector Economics: Taxation**

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 affect 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.

Completion of this course will replace previous assigned grade in ECON 3F06.

## 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 the nature of the "Canadian Economic Union." Regional development policies in Canada, the UK and France.

*Lectures, 3 hours per week.*

Prerequisite: ECON 2P22.

## ECON 3P24

**Labour Economics**

(also offered as LABR 3P24)

The 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.

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### ECON 3P27

#### The 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 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: one of ECON 3P91, MATH 2P60, 2P72 or permission of the instructor.

Completion of this course will replace previous assigned grade in ECON (MATH) 4P59.

### 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 I

The 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, MATH 2P81 or 2P82.

### 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 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 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

The 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 2P31.

### ECON 3P99

#### Mathematical Economics II

The application of quantitative techniques to economic theory and business problems. Quantitative techniques include optimization with inequality constraints, the envelope theorem, game theory, difference and differential equations. Applications include labour-leisure choice, duality, sequential bargaining models, macroeconomic rational expectations models and economic growth models.

*Lectures, 3 hours per week.*

Prerequisite: ECON 3P91.

### ECON 3V60-3V69

#### Field Courses in Economics

Application of economic analysis to special topics.

## ECON 4F28

**Advanced Environmental Economics**

Advanced analysis of environmental and natural resource economics with emphasis on the integration of economic research methods and ecological models. Topics may include sustainable development, ethically flexible policy evaluation and non-market valuation.

*Lectures, 3 hours per week.*

Restriction: open to ENEC majors.

Prerequisites: ECON 3P27, 3P28 and 3P90 or permission of the instructor.

## ECON 4F90

**Honours Essay**

A 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 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 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 BBE Co-op students.

## ECON 0N02

**Work Placement II**

Second co-op work placement (4 months) with an approved employer.

Restriction: open to BBE Co-op students.

## ECON 0N03

**Work Placement III**

Third co-op work placement (4 months) with an approved employer.

Restriction: open to 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, resume preparation, and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to BBE Co-op students.

# Education

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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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## Undergraduate

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EDUC 1F90, 2F00, 2F01, 3F01, 3P40, 3P50 and 3P52 are available either as electives or as part of a General Integrated Studies program. Participants need not be teachers, nor do they need to take these courses to enter a teacher certification program.

### 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 2F00

#### 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.*

### 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.

### 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.*

### 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.*

### 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.

### 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.

### EDUC 3P60

#### Gender Issues in Teaching and Learning (also offered as WISE 3P60)

Theoretical and practical aspects of feminist engagement with pedagogic processes within/against both traditional and alternative educational contexts; examination of levels and components of education from a variety of feminist theoretical perspectives; pedagogic and political consequences of ideology critique and alternative practices.

*Lectures, seminar 3 hours per week.*

Restriction: open to WISE majors until date specified in the BIRT guide. Students must have a minimum of 6.0 overall credits.

### EDUC 4P01

#### Mathematical and Scientific Learning and Teaching

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/BEEd majors.

Note: a school-based practicum is required.

### EDUC 4P02

#### Student Assessment

Enhancement of prospective teachers' skills in the area of measurement and evaluation emphasizing teacher-made tests. 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.*

Restriction: open to BPhEd(honours)/BEEd majors.

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.*

Restriction: open to CHYS BA/BEEd, BPhEd(honours)/BEEd and BSc/BEEd majors with a minimum of 15.0 credits.

**Adult Education**

## ADED 4F04

**Foundations of Teaching and Learning in Adult Education**

Developmental processes experienced by teachers in adult education including the development of personal theories of education, knowledge of the learning milieu, familiarity with the student community, intellectual issues with reference to ethics and equity. Focus on the adult learner and diverse personal and social background issues which facilitate or complicate the learning process.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Completion of this course will replace previous assigned grade in ADED 4F94.

## ADED 4F05

**Curriculum Theory and Design**

Individual learning needs, instructional variations and integrated methods of evaluation using an integrative, task-centred and student-centred approach. Design and development of a relevant curriculum unit equivalent to a college level course of study.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: ADED 4F04 (4F94).

Completion of this course will replace previous assigned grade in ADED 4F95.

## ADED 4F06

**Instructional Approaches for Adult Learners**

Implementation of curriculum units. Seminars and observations by a teaching adviser will assist self-evaluation and determine the need for curriculum change in order to enhance student learning. Practice in the development and use of a variety of assessment techniques.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: ADED 4F05 (4F95).

Completion of this course will replace previous assigned grade in ADED 4F96.

## ADED 4F07

**Administrative and Organizational Issues**

Historical-developmental perspective on education in Ontario. Topics include funding and policy-making processes, student and teacher rights and responsibilities, administrative structures and the role of the teacher of adults in the wider context of education.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: ADED 4F06 (4F96):

Completion of this course will replace previous assigned grade in ADED 4F97.

## ADED 4F08

**Professional and Personal Developmental Issues**

Personal and social constructions of the multiple roles of the teacher of adults. Topics include organizational membership, professionalism, collective bargaining, leadership, change and external relations, personal and professional development. Design, implementation and reporting of a mini-research project.

*Facilitated seminar, 6 hours per week.*

Restriction: open to students admitted to Adult Education.

Prerequisite: ADED 4F07 (4F97).

Completion of this course will replace previous assigned grade in ADED 4F98.

**Adult Education Aboriginal stream:**

## ADED 4F84

**Foundations of Teaching and Learning in Aboriginal Adult Education**

Theoretical foundation of both Aboriginal and mainstream approaches to adult education. Emphasis on critical analysis of issues related to the teaching of Aboriginal adult populations, reflection on personal and professional attitudes towards teaching and learning.

*Facilitated discussion, 6 hours per week.*

Restriction: open to students admitted to the Adult Education Aboriginal stream.

## ADED 4F85

**Curriculum Theory and Design in Aboriginal Adult Education**

Introduction to an Aboriginal approach to creating curriculum through a community-based developmental model. Topics include decolonization, relationship between learning and healing, learning outcome development and global Indigenous trends in adult education.

*Facilitated discussion, 6 hours per week.*

Restriction: open to students admitted to the Adult Education Aboriginal stream.

Prerequisite: ADED 4F84.

## ADED 4F86

**Instructional Strategies: Ways of Teaching and Learning for Aboriginal Adult 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 the Adult Education Aboriginal stream.

Prerequisite: ADED 4F85.

## ADED 4F87

**Aboriginal Leadership Issues: Healing, Learning and Leadership**

Relationship between the colonial experience and contemporary Aboriginal leadership; contemporary policy-making processes and the wider role of the Aboriginal trainer/teacher in our communities.

*Facilitated discussion, 6 hours per week.*

Restriction: open to students admitted to the Adult Education Aboriginal stream.

Prerequisite: ADED 4F86.

## EDUCATION

ADED 4F88

### **Aboriginal Teacher Development: Understanding our Journeys**

Reflective theory and practice through a series of hands-on activities designed to encourage both professional renewal and awareness of self as Aboriginal teacher and learner.

*Facilitated discussion, 6 hours per week.*

Restriction: open to students admitted to the Adult Education Aboriginal stream.

Prerequisite: ADED 4F87.

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## **Professional Certificate Enterprise Education**

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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.

EDUC 8D10

### **Instructional Strategies: Intermediate/Senior**

Planning and implementation, management, instructional approaches, curriculum development and delivery and current issues. Integrated with internship/practicum (EDUC 8D09), 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. Consult the instructor regarding permission to register.

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 CHYS BA/BEd, BPhEd (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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 CHYS BA/BEd 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: French Teaching Specialization**

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 to BFTS BA/BEd majors with a minimum of 19.0 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 to BFTS BA/BEd majors with a minimum of 17.0 overall credits.

Completion of this course will replace previous assigned grade in EDUC 8P76

## 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 CHYS BA/BEEd, and BSc/BEEd majors with a minimum of 15.0 overall credits and BPhEd (honours)/BEEd and BFTS BA/BEEd majors with a minimum of 19.5 overall credits.

Co-requisite: EDUC one of 8D10, 8F08, 8F11.

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 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, 3 hours per week.*

Restriction: open to students admitted to Pre-Service Education and to CHYS BA/BEEd, BPhEd(honours)/BEEd and BSc/BEEd majors with a minimum of 15.0 credits.

Students completing this course will forfeit credit 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 behav-

our 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 the Ontario Certificate of Qualification Native Teacher Education, Pre-service Education and Technological Studies Education programs.

## EDUC 8P07

**Applied Classroom Dynamics**

Through analysis of classroom cases, students must apply understandings of child development, principles of learning and motivation, self-concept and student evaluation. In the context of teacher decision making, students identify and evaluate a range of effective teaching strategies, while exploring roles assumed by teachers within schools and in partnership with families.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to Primary/Junior and Junior/Intermediate programs.

Note: in place of EDUC 8P06 for students with a background in psychology.

## 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 the Native Teacher Education programs and to BFTS BA/BEEd majors with a minimum of 19.0 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 programs.

## 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 8P12

**Educational Psychology**

May include metacognitive strategies, motivational issues, the role of self-concept, creativity, critical thinking and social issues.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the French Teaching Specialization Education program and to BFTS BA/BEEd majors with a minimum of 19.0 overall credits.

## 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 supervised practicum in FSL teaching.*

Restriction: open to students admitted to the Junior/Intermediate program and to BSc/BEEd majors with a minimum of 15.0 overall credits and may also be open as an option to students admitted to the Primary/Junior Program and BPhEd(honours)/BEEd majors with a minimum of 20.0 credits and BA/BEEd majors with a minimum of 15.0 credits.

Note: all candidates must have 3.0 university credits in French and must qualify by successful completion of an oral and written test. Course credit will not be given without a successful three-week supervised practicum in FSL teaching.



## EDUCATION

### EDUC 8P14

#### **Classroom Dynamics for Concurrent Education Students**

Through assigned and self-selected readings, discussions, role plays, and problem-solving exercises, learners will acquire and practice the basic principles of teaching and learning. Topics include development, motivation, assessment and evaluation.

*Lectures, seminar, 2 hours per week.*

Restriction: open to BSc/BEEd majors, CHYS BA/BEEd majors with a minimum of 4.0 overall credits, BPhEd (honours)/BEEd majors with a minimum of 10.0 credits.

Completion of this course will replace previous assigned grade in EDUC 8P06 or 8P07.

### 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 is placed 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/BEEd majors with a minimum of 15.0 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/BEEd majors with a minimum of 15.0 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, CHYS BA/BEEd majors with a minimum of 15.0 overall credits, and BPhEd (honours)/BEEd majors with a minimum of 19.5 credits. Note: offered as a summer course for the Native Teacher Education Program.

### EDUC 8P33

#### **Primary/Junior 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, with practical applications across the arts, the broader school curriculum and the life of students in the primary and junior grades.

*Lectures, seminar, 2.5 hours per week.*

Restriction: open to students admitted to the Native Teacher Education and Primary/Junior programs, BA/BEEd majors with a minimum of 10.0 credits and BPhEd (honours)/BEEd 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/BEEd, BPhEd (honours)/BEEd and BSc/BEEd majors with a minimum of 15.0 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/BEEd, BPhEd (honours)/BEEd and BSc/BEEd majors with a minimum of 15.0 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/BEEd, BPhEd (honours)/BEEd and BSc/BEEd majors with a minimum of 15.0 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/BEEd, BPhEd (honours)/BEEd and BSc/BEEd majors with a minimum of 15.0 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 credits. Students completing this course will forfeit credit in EDUC 4P03.

## EDUC 8P43

**Adult Education**

A comparative study of pedagogy and androgogy with a focus 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 credits.

## EDUC 8P46

**Psychology of Computers in Education**

Uses of computers in education in light of current theories of child development.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to Pre-service Education and to BA/BEd, BPhEd (honours)/BEd and BSc/BEd majors with a minimum of 15.0 credits.

Students completing this course will forfeit credit in PSYC/CHYS (CHST) 3P74.

## 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 (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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 Pre-service Education and to BA/BEd, BPhEd (honours)/BEd and BSc/BEd majors with a minimum of 15.0 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.

*Lecture, seminar, 2 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended Program.

## EDUC 8P64

**Guidance and Career Education**

Prevailing theories of career development applied to guidance programs and practices in Ontario schools.

*Lecture, seminar, field work, 2 hours per week.*

Restriction: open to students admitted to the Enterprise Education Extended 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.

## EDUC 8P66

**Information Management: Intermediate/Senior**

Teaching methods and curriculum materials and other resources for information

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management courses in secondary schools.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

### 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.

### EDUC 8P68

**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.

### EDUC 8P69

**Science (Physics): Intermediate/Senior**

Teaching physics in secondary schools; Ontario Ministry, board and school curriculum documents and other resources are examined.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

### 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 students admitted to the Intermediate/Senior and Technological Studies Education programs.

### EDUC 8P71

**Co-operative Education**

A 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.

*Seminars, 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.

### 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.

### EDUC 8P74

**English (First Language): Intermediate/Senior**

The 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.

### EDUC 8P75

**Individual in Society: Intermediate/Senior**

Knowledge or related curriculum guidelines kindergarten to 12/OAC 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.

### 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.

### EDUC 8P78

**International Languages (German): Intermediate/Senior**

The theory of and approaches to teaching and learning a second language; the 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.

### EDUC 8P80

**International Languages (Italian): Intermediate/Senior**

The theory of and approaches to teaching and learning a second language; the 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.

### 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.

### EDUC 8P82

**Physical and Health Education: Intermediate/Senior**

The philosophy of physical and health education in grades 7-12/OAC; 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.

### EDUC 8P83

**Science (General): Intermediate/Senior**

Teaching science in the intermediate and senior division; Ontario ministry, board and school curriculum documents and other resources are examined.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

#### EDUC 8P84

##### **Visual Arts: Intermediate/Senior**

Studio activity, skills and art forms appropriate for students in grades 7-12/OAC; 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.

Note: experience or course work in studio art is a helpful background.

#### EDUC 8P85

##### **Religious Knowledge: Intermediate/Senior**

The history and development of Roman Catholic religious education as an academic discipline; the curriculum for grades 7-12/OAC and methods for teaching that curriculum.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

#### EDUC 8P86

##### **Science (Biology): Intermediate/Senior**

Teaching biology in secondary schools; Ontario Ministry, board and school curriculum documents and other resources are examined.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

#### EDUC 8P87

##### **Science (Chemistry): Intermediate/Senior**

Teaching chemistry in secondary schools; Ontario Ministry, board and school curriculum documents and other resources are examined.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

#### EDUC 8P88

##### **History: Intermediate/Senior**

The nature of history in the secondary school program. Emphasis on development of history skills, curriculum design, analysis of subject guidelines from grades 7-12/OAC.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Intermediate/Senior program.

Students completing this course will forfeit credit in EDUC 8P79.

#### EDUC 8P90

##### **International Languages (Spanish): Intermediate/Senior**

The theory of and approaches to teaching and learning a second language; the 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.

#### EDUC 8P91

##### **Introduction to the Hodinohsonni Grammar for Teaching**

The rudiments of Hodinohsonni grammar and the way it is taught in a school setting. Pronoun and verb morphologies are emphasized.

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.

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.

Restriction: open to students admitted to the Native Teacher Education programs.

#### EDUC 8P96

##### **Advanced Languages Teaching Methods**

Designed for teachers of advanced-level NSL proficiency. Methods for improving oral fluency, developing formal registers and teaching grammar and literature are demonstrated.

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.

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.

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. Students completing this course will forfeit credit in EDUC 8Q00.

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### 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)**

An 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. Students completing this course will forfeit credit 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 8R09

#### **The Teaching of Construction Technology (Advanced)**

An overview of the construction industry; technical knowledge, and skills and teaching strategies for the construction services, architectural design and drafting, electricity, environmental control, plumbing, sheet metal, trowel trades and woodworking at the senior level.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Technological Education Program. Students completing this course will forfeit credit in EDUC 9G30.

### 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)**

An 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)**

Includes an 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)**

Includes an in-depth study of the workshop conversion of a representative product design into a functional product. The 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 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.

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### 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 which 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. May also include topics such as 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. May also include topics such as 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)**

An 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)**

An 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.*

Restriction: open to students admitted to the Technological Education Program.

**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**

An overview of the computer industry; technical knowledge and skills and strategies for the computer services industry; problem solving, logic gate functions and programming constructs including an examination of computer hardware and control systems from an engineering and programming perspective.

*Lectures, seminar, 2 hours per week.*

Restriction: open to students admitted to the Technological Education Program.

**EDUC 8R71**

**The Teaching of Computer Engineering Technology (Basic)**

Study of key 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)**

Study of computer science concepts including software design, fundamental programming constructs of sequence, selec-



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tion and repetition; the functions of internal and external components; the relationships among networks, operating systems, and applications of software and their uses; the 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; the 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)**

An overview of technology and its application relative to design, development and production. Areas include information technology, communication, fabrication, design processes, engineering concepts, and the processing of materials like wood, metal and plastic. Program 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 the BSc/BEEd, French Teaching Specialization, Ontario Certificate of Qualification Native Teacher Education, Pre-service Education and Technological Studies Education programs, CHYS BA/BEEd and BPhEd (honours)/BEEd majors with a minimum of 4.0 overall credits and BFTS BA/BEEd majors with a minimum of 19.5 overall credits.

### EDUC 8Y05

#### **The Education Enterprise**

Contemporary theories, issues and innovations in education. The relationship between philosophical principles and the aims of education evidenced in selected educational systems. Study of the acts and regulations regarding education.

*Lectures, seminar, practicum, 2 hours per week.*

Restriction: open to students admitted to the BSc/BEEd, French Teaching Specialization, Ontario Certificate of Qualification Native Teacher Education, Pre-service Education and Technological Studies Education programs, BPhEd (honours)/BEEd and BA/BEEd majors with a minimum of 5.0 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 as an option to students admitted to Primary/Junior and Junior/Intermediate programs and Concurrent Education students with a minimum of 15.0 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 the Junior/Intermediate program and to BSc/BEEd majors with a minimum of 15.0 overall credits.

Students completing this course will forfeit credit 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 the Junior/Intermediate program and to BSc/BEEd major with a minimum of 10.0 overall credits.

Students completing this course will forfeit credit in EDUC 8P22.

### EDUC 8Y28

#### **Junior/Intermediate Science and Technology**

An integrated approach to teaching science and technology at the junior and intermediate 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 Junior/Intermediate program and to BSc/BEEd majors with a minimum of 15.0 overall credits.

Students completing this course will forfeit credit 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. Emphasis on Canadian identity and

democratic values. The study of history as a preparation for life in a complex society. A focus 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 the Junior/Intermediate program and to BSc/BEEd majors with a minimum of 10.0 overall credits.

Students completing this course will forfeit credit 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, CHYS BA/BEEd majors with a minimum of 15.0 credits, and BPhEd (honours)/BEEd majors with a minimum of 20.0 credits. Students completing this course will forfeit credit 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 Native Teacher Education and Primary/Junior programs, CHYS BA/BEEd and BPhEd (honours)/BEEd majors with a minimum of 15.0 overall credits. Students completing this course will forfeit prior credit in EDUC 8P32.

#### EDUC 8Y38

##### **Primary/Junior Science and Technology**

An 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, CHYS BA/BEEd majors with a minimum of 15.0 credits and to BPhEd (honours)/BEEd majors with a minimum of 20.0 overall credits.

Note: offered as an off-campus course for the Native Teacher Education Program. Students completing this course will forfeit credit in EDUC 8P31.

#### EDUC 8Y39

##### **Primary/Junior Social Studies**

Teaching strategies appropriate to the Ontario curriculum. Emphasis on knowledge, skills and attitudes for examining and understanding communities, various heritages and citizenship. Key social science concepts; inquiry and communication skills. Focus on Canadian identity and democratic values.

*Lectures, seminar, 2 hours alternate weeks.*

Restriction: open to students admitted to the Native Teacher Education and Primary/Junior programs, CHYS BA/BEEd and BPhEd (honours)/BEEd majors with a minimum of 15.0 overall credits.

Students completing this course will forfeit credit 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. They will not normally be counted in the course credits for the Pre-service program.

*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, BPhEd (honours)/BEEd, BSc/BEEd and BA/BEEd majors with a minimum of 15.0 credits.

Note: these courses are options for credit.

#### EDUC 8Y50

##### **2002-2003: Introduction to Assessment and Evaluation**

Methods for assessment and evaluation of student growth.

*Lectures, seminar, 2 hours per week.*

Note: this course is an option for credit.

#### EDUC 8Y51

##### **2002-2003: 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.*

Restriction: open to students admitted to the Pre-service Education program and to CHYS BA/BEEd majors with a minimum of 15.0 overall credits and to BPhEd (honours)/BEEd majors with a minimum of 20.0 overall credits.

Note: this course is an option for credit.

#### EDUC 8Y52

##### **2002-2003: 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.*

Restriction: open to students admitted to the Pre-service Education program and to BFTS BA/BEEd, BSc/BEEd majors with a minimum of 15.0 overall credits and to BPhEd (honours)/BEEd majors with a minimum of 20.0 overall credits.

Note: This course is an option for credit but does not give students intermediate/senior basic teaching.

#### EDUC 8Y53

##### **2002-2003: 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.*

Restriction: open to students admitted to the Pre-service Education and to BA/BEEd, BSc/BEEd majors with a minimum of 15.0 overall credits and to BPhEd (honours) BEEd majors with a minimum of 20.0 overall credits.

Note: This course is an option for credit.

#### EDUC 8Y96

##### **Religious Education (Roman Catholic)**

The reality of Christian belief and behaviour is examined 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

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Association and the Ontario Separate School Trustees Association.

*Lectures, seminar, 2 hours per week.*

Note: open to all Education students. 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.*

Note: open to all Education students. This course is an option for credit.

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### In-service (Additional Qualifications)

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Courses numbered 9(alpha)00 to 9(alpha)99 are for students in the Program II BEd. Five credits are required, three of which must be in a specialized series.

In accordance with the Ontario College of Teachers requirements, Additional Qualification courses must consist of 125 hours of work of which 100 hours must be contact time (Reg. 184/97). Please consult the BIRT guide for specific course schedule.

EDUC 9F01

### Adult Education

The 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. The 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. The 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 the enhancement of the skills and knowledge of teachers of native education.

*Lectures, workshops.*

Note: pre-session requirement. Please contact the 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

The aims of the French program in Ontario schools, methodology; an introduction to linguistics, audio-visual devices,

demonstration classes and practice teaching.

*Lectures, seminar, practicum.*

Restriction: registration open to certified teachers and qualified individuals until the date specified in the BIRT guide. On and after that date, permission of department. Note: open to certified teachers as well as other individuals who qualify by successful completion of 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: EDUC 9F11.

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: EDUC 9F12 and a transcript showing at least five credits in French at the university level, or equivalent course or experience acceptable to the Director.

EDUC 9F14

### Music (Vocal) Primary/Junior I

Concepts of music including singing, listening, reading, playing, creating, moving and dramatizing; the Tonic Solfa method. Concentration will be at the primary level.

*Lectures, seminar, practicum.*

Note: open to certified teachers as well as other individuals who qualify by successful completion of an oral and written test.

EDUC 9F15

### Music (Vocal) Primary/Junior II

Teaching strategies and materials required for a well-balanced classroom music program. Planning a one-year curriculum that provides for continuity in the development of musical skills and the understanding of concepts.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F14.

Note: concentration will be at the junior level.

#### EDUC 9F16

##### Music (Vocal) Primary/Junior III

The organization and administration of music programs in a variety of school settings in the primary and junior levels; curriculum building, the selection of materials and resources, choral repertoire and vocal techniques for performance.

Examinations and comparison of contemporary approaches to music education.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F15.

#### EDUC 9F17

##### Science Education Primary/Junior I

An introduction to the teaching of science in the primary and junior divisions based on Ontario curriculum documents. The 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 the science component of a balanced and integrated program at the primary/junior level.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F17.

#### EDUC 9F19

##### Science Education Primary/Junior III

Leadership skills in the organization, administration and supervision of a science education program for the primary/junior level.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F18.

#### EDUC 9F21

##### Reading I

Introduction to the language processes of reading and writing. Basic assessment procedures and the improvement of reading skills.

*Lectures, seminar, practicum.*

Note: open to certified teachers.

#### EDUC 9F22

##### Reading II

Further study of the components involved in the act of reading and the techniques used in the diagnosis and remediation of reading problems.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F21.

#### EDUC 9F23

##### Reading III

Advanced instruction in the theory and practice of reading instruction; the design and implementation of reading programs.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F22.

#### EDUC 9F24

##### Design and Technology I

Laboratory-centred activity on material and processes; an analysis of curriculum theory as it applies to elementary school programs. Topics include materials and matter, applied design, structures and mechanisms, and the 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 focussed on curriculum development, assessment and evaluation practices in technology programs. Topics include the basic concepts of technology, developing the 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: EDUC 9F24.

#### EDUC 9F26

##### Design and Technology III

Organization and curriculum development as they apply to technology programs and the implementation of a technology program focused on the Ontario curriculum, science and technology, grades 1 to 8. Emphasis on the development of a classroom ready program that addresses the new Ontario curriculum and incorporating current assessment and evaluation principles.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F25.

#### EDUC 9F27

##### Teacher-Librarianship I

Understanding the role of the teacher-librarian and the 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 the collaborative process. Interpreting and utilizing a variety of print and non-print media. Developing a wider knowledge of resources including print (non-fiction, 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: EDUC 9F27.

#### EDUC 9F29

##### Teacher-Librarianship III

Advanced practical applications of the role of the teacher-librarian and the 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: EDUC 9F28.

#### EDUC 9F31

##### Environmental Science I

The development and implementation of courses of study and learning experiences, in environmental science within the community, neighbourhood and outdoor areas to which a school has access.

## EDUCATION

*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/OAC continuum with emphasis on implementation at the three divisional levels.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F31.

EDUC 9F33

### **Environmental Science III**

The organization, administration and supervision of environmental science programs; their design, development and implementation in elementary and secondary schools.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F32.

EDUC 9F37

### **Primary Education I**

Basic teaching strategies with emphasis on communication (language arts and mathematics); a consideration of curriculum matters of concern to primary teachers in these subject areas; and an 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 with emphasis on 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: EDUC 9F37.

EDUC 9F39

### **Primary Education III**

Leadership skills involved in the professional development of teachers; principles of curriculum construction; the diagnosis and remediation of learning difficulties; the examination of relevant case studies and the pursuit of individual interests.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F38.

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. The 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: EDUC 9F41.

EDUC 9F43

### **Physical and Health Education Primary/Junior III**

Program content and development; current problems, both personal and programmatic and the development of leadership skills.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F42.

EDUC 9F44

### **Physical and Health Education Intermediate/Senior I**

Activities and philosophies related to current practices at the intermediate division; program development in dance, gymnastics and games; anatomy and athletic injuries; individual games and activities suitable for these age levels. Intramural activities.

*Lectures, seminar, 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 the organization of suitable programs for the involvement of students at this level. Intramural activities.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F44.

EDUC 9F46

### **Physical and Health Education Intermediate/Senior III**

Advanced instruction in the 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: EDUC 9F45.

EDUC 9F47

### **Attendance Counsellor**

Important aspects of the 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 the 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: EDUC 9F51.

### EDUC 9F53

#### Visual Arts III

Curriculum design and implementation, stressing historical, multi-cultural, 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: EDUC 9F52.

### EDUC 9F57

#### Junior Education I

Curriculum matters of concern to junior teachers; an examination of basic teaching strategies in the various subject areas and the 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 EDUC 9F77.

### 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 the curriculum (communications, environmental studies or arts).

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F57.

### EDUC 9F59

#### Junior Education III

Leadership skills involved in the professional development of teachers, the principles of curriculum construction and the diagnosis and remediation of learning difficulties.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F58.

### EDUC 9F61

#### Computers in the Classroom I

Introduction to the microcomputer and its educational application for the classroom teacher; the architectural, historical and pedagogical aspects of microcomputers; basic computer literacy; elementary program development; students select, review and field test educa-

tional computer courseware.

*Lectures, seminar, practicum.*

Note: open to certified teachers.

Completion of this course will replace previous assigned grade in EDUC 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: EDUC 9F61.

Completion of this course will replace previous assigned grade in EDUC 9Y01-9Y22.

### EDUC 9F63

#### Computers in the Classroom III

Advanced techniques in the evaluation, design and implementation of computer-aided learning materials. Instruction and practice in the design and delivery of computer based professional development activities.

*Lab.*

Prerequisite: EDUC 9F62.

Note: The major project involves the creation and delivery of professional development materials. On-line sessions will be included.

Completion of this course will replace previous assigned grade in EDUC 9Y01-9Y22.

### EDUC 9F64

#### Guidance I

Emphasis on the counselling, consultation, instruction and program design.

*Lectures, seminar, practicum.*

Note: open to certified teachers.

### EDUC 9F65

#### Guidance II

Emphasis on the 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: EDUC 9F64.

### EDUC 9F66

#### Guidance III

Emphasis on the implementation of program and leadership and change in school.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F65.

### 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). The role of the teacher in a multilingual, multicultural, multiracial teaching and learning environment. A view of curriculum development and delivery from three perspectives: sociocultural, linguistic and academic.

*Lectures, seminar, practicum.*

Note: may include Saturdays. 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 the delivery of instruction. Assessment, evaluation and a focus on best practice.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F67.

Note: may include Saturdays.

### EDUC 9F69

#### English as a Second Language/English Language Development III

The design, implementation and evaluation of an effective ESL/ELD program. The 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: EDUC 9F68.

Note: may include Saturdays.

### EDUC 9F71

#### Co-operative Education I

Analysis of a variety of co-operative education programs currently being used in the 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.

## EDUCATION

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 work-site reactions to the concept of co-operative education.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F71.

EDUC 9F73

### Co-operative Education III

Organizing and leading workshops in co-operative education; planning, coordinating and implementing co-operative education programs (including in-school and out-of-school components) at the school and board level.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F72.

EDUC 9F74

### Dramatic Arts I

Basic methodologies in teaching dramatic arts; the 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 the preparation and evaluation of courses in dramatic arts.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F74.

EDUC 9F76

### Dramatic Arts III

Organizing and teaching workshops in dramatic arts: planning, implementing and evaluating dramatic arts programs.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F75.

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 qualifi-

cation 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 the 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 the teaching of mathematics at the primary and junior levels.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F84.

EDUC 9F86

### Mathematics Primary/Junior III

Additional teaching strategies for the review, development and implementation of changes in the mathematics curriculum. Assessment strategies for student achievement, diagnostic techniques and programming for students with special needs.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F85.

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. The various modes of communication, consultation and co-operative action in

the 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: EDUC 9F87.

EDUC 9F89

### Intermediate Education III

Alternate patterns of teaching strategies, evaluation techniques and curricular concerns examined in EDUC 9F87 and 9F88 with the focus on adolescent exceptionality, career awareness and social adjustment. Instruction and practice in leadership skills which enhance effective communication with students, parents, colleagues and administrators.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F88.

EDUC 9F91

### Business Studies: Entrepreneurship Studies I

Familiarity with the subject matter and relevant teaching materials for the major concepts of the Ministry of Education's Entrepreneurship Curriculum Guide and awareness of available community resources. Practice in the development and implementation of an entrepreneurial plan.

*Lectures, seminar, practicum.*

EDUC 9F92

### Business Studies: Entrepreneurship Studies II

Practice in the 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 the development of methodologies for teaching relevant enterprise skills and of processes for acquiring motivation and commitment to these skills.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F91.

EDUC 9F93

**Business Studies: Entrepreneurship Studies III**

Development of skills in constructing curriculum units, components and themes for the study of entrepreneurship at the basic, general and advanced level of the secondary school. Practice in leadership roles in sourcing and adapting information and resource materials. Advanced study of entrepreneurship literature and research as well as the role of entrepreneurship in the economy.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9F92.

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 certification Certificate of Qualification endorsed with primary, junior or senior additional basic qualification.

(9M00) Language Arts (English)

(9M01) Mathematics

(9M02) Science

(9M03) History

(9M04) Geography

(9M07) Physical Education

(9M08) French

(9M09) Drama

Consult the Centre for Continuing Studies regarding teachable subject areas to be offered.

EDUC 9M20-9M29

**Senior Basic Curriculum and Instruction (Major)**

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

Consult the Centre for Continuing Studies regarding teachable subject areas to be offered.

EDUC 9M30-9M39

**Senior Basic Curriculum and Instruction (Minor)**

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

Consult the Centre for Continuing Studies regarding teachable subject areas to be offered.

EDUC 9M50-9M59

**Honours Specialist: Senior Division**

Advanced knowledge of curriculum guidelines from kindergarten to 12/OAC 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.*

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 the 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

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 (OAIP).

*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 the basis of specific areas of instructional expertise and candidate interest.

*Lectures, seminar.*

Prerequisite: permission of the Director.

EDUC 9Y01-9Y22

**Special Topics in Computers in the Classroom**

Basic strategies for teaching computer skills at the primary to senior divisions.

*Lectures, lab, practicum.*

Restriction: permission of the Director.

Prerequisite: an Ontario Certificate of Qualification.



## EDUCATION

Completion of any of these courses will replace previous assigned grade in EDUC 9F61, 9F62 or 9F63.

- 9Y01 Introduction to Computers in the Classroom
- 9Y02 Using Computers in the Language Program
- 9Y03 Integration of Computers with Self and Society
- 9Y04 Computer Applications in Math, Science and Technology
- 9Y05 Word Processing and Publishing in the Classroom
- 9Y06 Using a Data Base in the Classroom (Basic)
- 9Y07 Mathematical Applications of Computers Across the Curriculum
- 9Y08 Computer Applications in the Arts
- 9Y09 Using a Data Base in the Classroom (Advanced)
- 9Y10 Research Using CD-Roms and the Internet
- 9Y11 The Internet: Designing World Wide Web Documents
- 9Y12 Understanding a School Network
- 9Y13 Evaluating Software
- 9Y14 Use of Spreadsheets in the Classroom
- 9Y15 On-line Computer Course
- 9Y16 The Internet in the Elementary Classroom I
- 9Y17 The Internet in the Elementary Classroom II
- 9Y18 Presentation Software in the Elementary Classroom I
- 9Y19 Presentation Software in the Elementary Classroom II
- 9Y20 Ministry of Education Licensed Software in the Elementary Classroom I
- 9Y21 Ministry of Education Licensed Software in the Elementary Classroom III
- 9Y22 Arts Software in the Elementary Classroom

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### Technological Education

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Note: The following prerequisite is required for all EDUC 9G00 to 9G88 courses:

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 9G00

**Communications Technology: Basic**  
Overview of the communication industry; the 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.*

#### EDUC 9G10

**Communication 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, print and graphic production and computer communication at the senior division.

*Lectures, seminar, lab.*

Prerequisite: EDUC 9G00.

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 the Grades 1 - 8 science and technology and integrated technologies program.

*Lectures, seminar.*

#### 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 the Grades 1 - 8 science and technology and the Grade 9 integrated technologies program.

*Lectures, seminar.*

#### EDUC 9G20

##### **Construction Technology: Basic**

Overview of the construction industry; technical knowledge, and skills and teaching strategies for the construction services, architectural design and drafting, electricity, environmental control, plumbing, sheet metal, trowel trades and woodworking.

*Lectures, seminar, lab.*

#### EDUC 9G30

##### **Construction Technology: Advanced**

Overview of the construction industry; technical knowledge, and skills and teaching strategies for the construction services, architectural design and drafting, electricity, environmental control, plumbing, sheet metal, trowel trades and woodworking at the senior division.

*Lectures, seminar, lab.*

Prerequisite: EDUC 9G20.

Completion of this course will replace previous assigned grade in EDUC 8R09.

#### EDUC 9G40

##### **Manufacturing Technology: Basic**

Overview of the 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.*

#### EDUC 9G60

##### **Transportation Technology: Basic**

Overview of the 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.*

#### EDUC 9G80

##### **Services Technology: Basic**

Overview of the services field. Teaching strategies required for the planning, opera-

tion and development of services and technologies in hospitality, home maintenance, forestry, agriculture, entrepreneurship and small business operations.

*Lectures, seminar, lab.*

#### EDUC 9G85

##### **Hospitality Services: Basic**

Teaching strategies and skills required for the 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.*

#### EDUC 9G86

##### **Hospitality Services: Advanced**

In-depth study of the teaching strategies and skills required for the 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.*

#### EDUC 9G87

##### **Personal Services: Basic**

Teaching strategies and skills required for the planning, operation and development of services in the study of health care, personal grooming, child care and geriatric care.

*Lectures, seminar.*

#### EDUC 9G88

##### **Personal Services: Advanced**

In-depth study of the teaching strategies and skills required for the 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.*

#### 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.*

Prerequisites: an Ontario Certificate of Qualification or Interim Certificate of Qualification indicating qualification in

at least three of the 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 of the subjects listed in Schedule B at the basic level and an entry indicating the Specialist qualification in one of the subjects 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.

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## Special Education

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To be recommended to the Ontario College of Teachers for Special Education I, candidates must complete EDUC 9P01 plus one basic elective half credit; for Special Education II, EDUC 9P02 and a second elective (either part II or another part I); for Special Education III, EDUC 9P03 and a third elective (see EDUC 9P04-9P15). Students with previous credits in Special Education should consult the Director regarding their further studies.

#### EDUC 9P01

##### **Special Education: Foundations I**

Identification of students with special educational needs; characteristics of the five main exceptionalities: behavioural, communicative, intellectual, physical and multiple. Models, theories and approaches of educational exceptionalities, their classroom implications, available community resources and effective school/student/parent communication.

*Lectures, seminar, practicum.*

Note: open to certified teachers.

#### EDUC 9P02

##### **Special Education: Foundations II**

Further studies of the educational implications of multiple exceptionalities; formal and informal assessment of exceptional students and their particular needs; the design and implementation of appropriate educational programs for students at a more advanced level; reporting tech-

niques, the Identification, Placement and Review Committee (IPRC) process and the teacher's role in it.

*Lectures, seminar, practicum.*

Prerequisites: EDUC 9P01 and basic elective.

Co-requisite: EDUC 9P12.

#### EDUC 9P03

##### **Special Education: Foundations III**

Leadership and consultation in special education at the school and board level. The design of workshops or training sessions language disabilities; identification of these exceptionalities, their subclassifications and relationship to other exceptionalities.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P04.

## ELECTIVES

#### EDUC 9P04

##### **Special Education: Learning Disabilities I (Basic)**

The identification of speech, language and learning disabilities; the development and implementation of appropriate teaching intervention strategies.

*Lectures, seminar, practicum, 3 hours per week.*

Prerequisite: EDUC 9P01.

#### EDUC 9P05

##### **Special Education: Learning Disabilities II (Advanced)**

Theories and strategies of teaching students with speech and language disabilities; identification of these exceptionalities, their subclassifications and relationship to other exceptionalities.

*Lectures, seminar, practicum, 3 hours per week.*

Prerequisite: EDUC 9P04.

#### EDUC 9P06

##### **Special Education: Teaching the Developmentally Disabled (Basic)**

Analysis of special education approaches representing both cognitive and behavioural orientations for students with learning and developmental disabilities. Issues include inclusion of exceptional students with learning and developmental disabilities including history, etiology, characteristics and functioning levels, assessment, curriculum analysis, task analysis, design of Individualized Education Programs based on

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instructional principles from both cognitive and behavioural perspectives. Lectures, seminar, practicum. Prerequisite: EDUC 9P01.

### EDUC 9P07

**Special Education: Teaching the Developmentally Disabled (Advanced)**  
Foundational issues presented in 9P06 Basic are examined in terms of their relevance to specific educational programming applications including early intervention, motor and self-help development, the cognitive infrastructure of the academic program including cognitive strategies, curriculum and assessment, task analysis, academic instruction in reading and arithmetic and transition to employment and life in the community.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P06.

### EDUC 9P08

**Special Education: Gifted I (Basic)**

The nature of educational giftedness; basic screening and identification procedures; the design and implementation of appropriate educational programs.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P01.

### EDUC 9P09

**Special Education: Gifted II (Advanced)**  
Theories and strategies for teaching gifted students; the identification of this exceptionality and its subclassifications and its relationship to other exceptionalities.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P08.

### EDUC 9P10

**Special Education: Behaviour I (Basic)**

Issues in the education of the behaviourally exceptional student; basic screening and identification procedures; the design and implementation of appropriate educational programs.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P01.

### EDUC 9P11

**Special Education: Behaviour II (Advanced)**

Theories and strategies for teaching the behaviourally exceptional student; the identification of this exceptionality and its subclassifications and its relationship to other exceptionalities.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P10.

### EDUC 9P12

**Special Education: Combined Electives I (Basic)**

The identification of students with learning disabilities, behavioural exceptionalities and giftedness and provision of appropriate programming for them. This elective course will be offered whenever specific special education basic courses are not available.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P01.

Corequisite: EDUC 9P02.

### EDUC 9P13

**Special Education: Combined Electives II (Advanced)**

Theories and strategies for teaching students with learning disabilities, behavioural exceptionalities and giftedness.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P12.

Note: offered whenever specific special education advanced courses are not available.

### EDUC 9P14

**Physical Exceptionalities (Basic)**

Basic methodologies in teaching children with physical and health-related disabilities.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P01.

### EDUC 9P15

**Physical Exceptionalities (Advanced)**

Planning, implementing and evaluating programs for children with physical and health-related disabilities.

*Lectures, seminar, practicum.*

Prerequisite: EDUC 9P14.

## English

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

#### ENGL 1F91

##### Survey of Major English Writers

Major authors in English literature from the 14th- to the 20th-century. Authors may include such writers as Chaucer, Shakespeare, Milton, Swift, Austen, Dickens, Eliot. Special attention will be given to students' writing.

*Lectures, seminar, 3 hours per week.*

#### ENGL 1F95

##### Literature in English: Forms and Approaches

Selected works of fiction, poetry and drama, drawn largely from the 19th- and 20th-centuries, with attention to the conventions of genre and emphasis on perceptive reading and effective writing.

*Lectures, seminar, 3 hours per week.*

#### ENGL 1F99

##### Language and Thought

Critical analysis of selected writings in literature, natural science and social science. Special attention will be given to students' writing.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in ENGL 1P97 or 1P98.

#### ENGL 2F55

##### Modern Fiction

Forms and techniques of fiction in English by selected writers of the 20th-century.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)00 to 1(alpha)99 or permission of the instructor.

#### 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 2F97

##### Shakespeare

(also offered as GBL 2F97)

Plays and Sonnets; representative plays from all genres: histories, comedies, tragedies and romance; a selection of Sonnets.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or GBL 1F90 or permission of the instructor.

Note: students may take DART 3F97 in place of ENGL 2F97.

Completion of this course will replace previous assigned grade in DRAM 3F97.

#### ENGL 2M90-2M99

##### English Area Studies

Studies in a specialized area of English 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 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 2P21

##### Sixteen-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 2P22

##### Spenser and the Age of Elizabeth

Elizabethan literature of the 1590s, with particular emphasis on Spenser.

*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 Lanier.

*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 3P21.

#### ENGL 2P25

##### The Age of Sensibility

Prose, poetry and drama 1740-1798, including such writers as Johnson, Cowper and Sterne.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)00 to 1(alpha)99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 2P41.

#### ENGL 2P30

##### Early Romantic Literature

Poetry of Blake, Wordsworth and Coleridge; selected literary criticism and other prose.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

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### ENGL 2P31

#### Later Romantic Literature

Poetry of Byron, Shelley and Keats; selected letters and other prose.

*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

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

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

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 2P61

#### American Literature to 1900

Literature and literary culture from early European contact through Henry James and Edith Wharton. Emphasis on such writers as Emerson, Thoreau, Poe 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 1900

Literature and literary culture from Henry James and the beginnings of modernism to the present time. Emphasis on 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.

*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 1900

(also offered as WISE 2P94)

Prose, poetry and drama by women from the 17th- to the 19th-century including such writers as Anne Bradstreet, Katherine Philips, Lucy Hutchinson, Aphra Behn, Mary Wollstonecraft, Mary Shelley and Charlotte Brontë.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

### ENGL 2P95

#### Modern Women Writers

(also offered as WISE 2P95)

Prose, poetry and drama by women from the mid-19th-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 2V90-2V99

#### English Area Studies

Studies in a specialized area of literature in English.

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

### ENGL 2V91

#### 2002-2203: Non-Shakespearean Drama in England, 1576 to 1642

Vvariety of dramatic genres written for the playhouses of early modern London, including plays by such writers as 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 2M90.

### ENGL 3F05

#### Creative Writing

(also offered as WRIT 3F05)

The craft of creative writing, for selected students in any discipline.

*Seminar, 3 hours per week.*

Restriction: permission of the instructor. Prerequisite: one credit from WRIT (ENGL) 1P80 and 1P81, ENGL 1F91, 1F95, 1F99.

Note: students must apply in writing, with portfolio, at least two weeks before the beginning of classes. Details from the department.

Completion of this course will replace previous assigned grade in ENGL 3P05 or WRIT 3P05.

### ENGL 3F40

#### The Novel

Major English novelists and the development of the form from its beginnings.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered

1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3F42

##### Poetry and Poetics

(also offered as GBL 3F42)

Language, form and technique in poetry with a focus on the modern and contemporary periods.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 credit and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3F91

##### History of the Language

The development of the English language from its origins to the present state of English in North America. The nature and cause of major internal changes in the language will be examined, together. The influence of external cultural and linguistic forces in the shaping of modern English. Selected literary models will be used to illustrate the stylistic development of English.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3F92

##### Old English

Literature and language; a close reading of prose and several major poems in Old English, including passages from *The Parker Chronicle*, *Wanderer*, *Seafarer*, *Deor*, *The Battle of Maldon*, *The Dream of the Rood*.

*Seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3F93

##### Literary Criticism

(also offered as GBL 3F93)

Literary criticism from Aristotle to Brooks and Leavis. Emphasis on enduring literary critical problems and on the relationship between the essay and other modes of literary criticism.

*Seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3P10

##### Chaucer: The Poetry

From *The Book of the Duchess* to *The Canterbury Tales*.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3P22

##### The Literature of Milton's Time

Poetry and prose from the Civil War to the early Restoration period, with particular emphasis on Milton.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3P25

##### Restoration and Augustan Literature

Prose, poetry and drama 1660-1740, including Dryden, Pope and Swift.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and 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 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: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and 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: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and 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: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and 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, with emphasis on the forms, approaches and cultural responses which have characterized writing in English in the later 20th-century.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)00 to 1(alpha)99 and 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 3P36.

#### ENGL 3P90

##### Auto/Biography

Biographical and autobiographical writings: types, reception, theoretical aspects.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)00 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

#### ENGL 3P95

##### Literature of the 14th- and 15th-Centuries

The northern alliterative revival: Langland and Malory.

*Seminar, 4 hours per week.*

Prerequisite: ENGL 3P10.

Completion of this course will replace previous assigned grade in ENGL 4P10.

## ENGLISH

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.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(*alpha*)00 to 1(*alpha*)99 and two ENGL credits numbered 2(*alpha*)00 to 2(*alpha*)99 or permission of the instructor.

ENGL 3V95

### **2002-2003: Contemporary Writing and History**

How authors seek to understand, to take responsibility for and write about the past and how they negotiate the mythic, legendary, historical, textual, political and geographic worlds that they have inherited. Novels, poems, plays and theoretical texts.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(*alpha*)00 to 1(*alpha*)99 and 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 3P36 and 3V70.

ENGL 4F70

### **Contemporary Literary Theory**

The major schools and the essential issues of contemporary literary theory.

*Seminar, 3 hours per week.*

Restriction: open to English Plus and ENGL (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) 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: open to English Plus and ENGL (single or combined) majors with 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.

Note: the Chair must approve proposals for projects and circulate approved projects to the Department.

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: open to English Plus and ENGL (single or combined) majors with either a minimum of 14.0 overall credits and 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.

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: open to English Plus and ENGL (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.

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 English Plus and ENGL (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) or permission of the instructor.

ENGL 4V00

### **2002-2003: Literature of the English Revolution**

(also offered as HIST 4V00)

Literary, critical, historical and theoretical perspectives on texts from the 1640s to the

Restoration, including Apeopagitica, Eikon Basilike, female prophecy and Agreement of the People.

Restriction: open to English Plus, ENGL (single or combined) and HIST (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) or permission of the instructor.

ENGL 4V30-4V39

### **Topics in 19th-Century Literature**

Restriction: open to English Plus and ENGL (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) or permission of the instructor.

ENGL 4V40-4V49

### **Topics in Contemporary Literature**

Restriction: open to English Plus and ENGL (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) or permission of the instructor.

ENGL 4V60-4V69

### **Topics in Contemporary Canadian Writing**

*Seminar, 3 hours per week.*

Restriction: open to English Plus and ENGL (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) or permission of the instructor.

ENGL 4V64

### **2002-2003: Contemporary Canadian Fiction: the Short Story**

Short fiction by such writers as Munro, Gallant, Atwood, and MacLeod, in the context of contemporary theory related to the short story.

ENGL 4V65

### **2002-2003: Space, Place and Identity in Contemporary Canadian Poetry**

Renditions of space in the work of contemporary Canadian poets such as Atwood, Ondaatje, Page, Heighon,

Kroetsch and Scobie, with attention to theories of place and space, and to related issues of identity and agency.

ENGL 4V70-4V79

**Text and Context**

Topics in literature and intellectual history.

*Seminar, 3 hours per week.*

Restriction: open to English Plus and ENGL (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) or permission of the instructor.

ENGL 4V71

**Later 19th-Century Thought**

Writings in social criticism, aesthetics, education, science and philosophy from Arnold and Darwin to Pater and Wilde.

Completion of this course will replace previous assigned grade in ENGL 4P31.

ENGL 4V90-4V99

**English Area Studies**

Studies in a specialized area of literature in English.

Restriction: open to English Plus and ENGL (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) or permission of the instructor.



# Entrepreneurial Studies

*These courses are offered by the Faculty of Business.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### 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: 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. Prerequisites: FNCE 2P91, MKTG 2P91, OBHR 2P91 and OPER 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 or 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.*

Prerequisites: ENTR 3P92 and ACTG 1P91 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.*

Restriction: open to BBA, BAcc, BBE, BCB and combined Business majors with a minimum of 9.0 overall credits.

Prerequisite: ENTR 2P51 or 3P45 or permission of the instructor.

Note: enrolment limited to 40 students per section.

### 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.

### ENTR 4P10

#### Planning for New Venture Creation

Strategies to identify and assess 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 and 3P52, or ENTR 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 with emphasis on 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 4V90-4V99

#### Topics in Entrepreneurship II

Courses in specialized areas within the discipline.

### ENTR 4V90

#### 2002-2003: International Dimensions of Entrepreneurship

Strategies to recognize global opportunities and to use global networks for resources, design and distribution of goods and services that customers in other parts of the world would like to buy. *Lectures, case discussion, presentations, 3 hours per week.*

Prerequisites: ENTR 2P51 or 3P45; ENTR 4P10 (3P91, 3P92) or permission of the instructor.

Note: enrolment limited to 40 students per section.

## Environment

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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 1P10

##### Fluids, Heat and Light

(also offered as PHYS 1P10)

Newton's laws and their consequences: work-energy relationship, energy conservation, momentum-impulse relationship and momentum conservation. Application of Newton's laws to fluids: fluids in equilibrium (pressure and Pascal's principle, surface tension and capillary action); fluids in motion (Bernoulli's equation, viscosity, turbulent flow); principles of centrifuge. Heat and heat flow, phase-changes, heat pumps/refrigeration. Wave nature of light.

*Lectures, 3 hours per week; tutorial, 1 hour per week.*

Restriction: open to BSc ENVI (ENVS single or combined) or OEVI majors or permission of the instructor.

#### 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 interdisciplinarity. Integration of environmental, economic and sociopolitical 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.*

Completion of this course will replace previous assigned grade in ENVP 1P90.

#### 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 (ENVP) 1P90 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 1P91.

#### ENVI 2P00

##### Natural Hazards

(also offered as ERSC 2P00)

Identification of naturally occurring atmospheric and geological hazards such as earthquakes, landslides, floods and their impacts on urban planning and development, infrastructure, public safety and policy issues.

*Lectures, lab, 5 hours per week.*

Prerequisite: ERSC 1F01 (1F95) or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVI (ERSC) 2P61 and ERSC 2P64.

#### 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.*

Prerequisite: GEOG 1F90 or permission of the instructor.

#### ENVI 2P04

##### Introduction to Meteorology

(also offered as GEOG 2P04)

Principles, structure, composition and processes of the atmosphere; its energy budget, moisture balance and motion. Weather forecasting in middle and low latitudes, forecasting techniques and special problems in applied meteorology.

*Lectures, lab, 3 hours per week.*

Prerequisite: GEOG 1F91 or permission of instructor.

#### ENVI 2P05

##### Earth Surfaces Processes

(also offered as ERSC 2P05 and GEOG 2P05)

Introductory geomorphology with an emphasis on basic principles and their application to global environments.

*Lectures, lab, field work, 5 hours per week.*

Prerequisite: ERSC 1F01 (1F95) or 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. Study of the patterns of soils and plants and their explanation. Spatial patterns of soils and vegetation communities and their explanation.

*Lectures, lab, 4 hours per week.*

Prerequisites: GEOG 1F91 and MATH 1P98, or CHEM 1F92 (1P80 and 1P81, or CHEM 1P90 and 1P91) or permission of the instructor.

#### ENVI 2P28

##### Economics of the Environment

(also offered as ECON 2P28)

Introduction to how economists think about environmental problems and natural resource management. Emphasis is on real world applications and case studies. Issues to be discussed will vary and may include: 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.

Completion of this course will replace previous assigned grade in ENVP 2P28.

#### 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

## ENVIRONMENT

to environmental issues. Introduction to major ecophilosophies and their contributions, limitations and significance.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVP (ENVP) 1P90 and 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 2P91.

### ENVI 2P92

#### Conservation Planning

(also offered as TOUR 2P92)

Application of ecological theory to environmental planning for conservation of species and ecosystems in a world dominated by human activities. Attitudes, values, and approaches: conservation, preservation, utilitarianism, stewardship and management. Co-existence of humans and wild life in parks, reserves, zoos, and productive landscapes. Conservation and development. Conservation programs, policies and legislation.

*Lectures, seminar, workshop, 3 hours per week.*

Prerequisites: ENVI (ENVP) 1P90, 1P91, and MATH 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 2P92.

### 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 (ENVP) 1P90, 1P91 and MATH 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 2P93.

### 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 (ENVP) 1P90 and 1P91 or INTL 1F90 (1P95); MATH 1P98, or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 2P94.

### 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 (ENVP) 1P90 and 1P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 2P95.

### ENVI 2Q04

#### Principles of Community and Environmental Biology

(also offered as BIOL 2Q04)

Principles of evolutionary ecology; biological processes at the community level of biological organization; patterns and diversity in natural ecosystems in terms of environmental toxins and their bioaccumulation in food webs; factors influencing community structure, biotic diversity and energy flow through ecosystems.

*Lectures, 2 hours per week; lab, 3 hours per week during the Fall Term.*

Restriction: students must have a minimum of 3.0 overall credits.

Prerequisite: BIOL 1F90.

Note: one-half year 1 credit in MATH strongly recommended. Year 2 students enrolled in the ENEC program are permitted to register in ENVI 2Q04 provided they have successfully completed the MATH and GEOG requirement in year 1 of the program.

Completion of this course will replace previous assigned grade in BIOL 2P04.

### ENVI 3P01

#### Environmental Chemistry

Sources and sinks of natural and synthetic toxic chemicals. The 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 (ENVS single or combined) majors with a minimum of 9.0 overall credits.

Prerequisite: CHEM 2P42 or permission of the instructor

Completion of this course will replace previous assigned grade in ENVP 3P01.

### 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 (ENVP or ENVS single or combined) majors, ENVI (ENVP) certificate or concentration students, with a minimum of 9.0 overall credits or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 3P02.

### ENVI 3P49

#### Gender and Environment

(also offered as TOUR 3P49 and WISE 3P49)

Intersection between gender and the environment. 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 (ENVP single or combined) majors, ENVI (ENVP) certificate or concentration students, TOUR and WISE (single or combined) majors.

Prerequisite: one of ENVI (ENVP) 1P90 and 1P91, WISE 2F90, 2P91, or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 3P49.

#### 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. Seminar 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 and students intending to complete the Concentration or Certificate in International Studies with a minimum of 8.0 overall credits and permission of the Director.

Prerequisite: ENVI 1P90 and 1P91 or INTL 1F90 (1P95), or permission of the Director.

Note: a list of eligible modules will be posted in the fall term; consult the Centre of the Environment for registration instructions. Registrants are expected to defray the cost of travel, accommodation and other 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 (ENVP single or combined) majors with a minimum of 9.0 overall credits and permission of the Director.

Prerequisites: ENVI (ENVP) 1P90 and 1P91 or permission of the Director.

Completion of this course will replace previous assigned grade in ENVP 3P90.

#### 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 (ENVP single or combined) majors with a minimum of 9.0 overall credits and permission of the Director.

Prerequisites: ENVI (ENVP) 1P90 and 1P91 or permission of the Director.

Completion of this course will replace previous assigned grade in ENVP 3P91.

#### 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.

Prerequisite: 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 (ENVP) 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.

Completion of this course will replace previous assigned grade in ENVP 3V10-3V15.

#### ENVI 3V20-3V24

##### **Interdisciplinary Perspectives on Human Settlements**

Specific topics to be selected.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI (ENVP) 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.

Completion of this course will replace previous assigned grade in ENVP 3V20-3V24.

#### 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 (ENVP) 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.

Completion of this course will replace previous assigned grade in ENVP 3V25-3V29.

#### ENVI 3V30-3V34

##### **Interdisciplinary Perspectives on Environmental Issues**

Specific topics to be selected.

*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI (ENVP) 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 an environmental policy issue.

Completion of this course will replace previous assigned grade in ENVP 3V30-3V34.

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### ENVI 3V60-3V65

#### **Selected Issues in Urban Policy**

Examination of specific issues of urban policy.  
*Lectures, seminar, 3 hours per week.*

Prerequisites: ENVI (ENVP) 1P90 and 1P91 or permission of the Director.

Note: these may vary from year to year.  
Completion of this course will replace previous assigned grade in ENVP 3V60-3V65.

### 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(ENVP) 1P90 and 1P91.  
Completion of this course will replace previous assigned grade in ENVP 3V90-3V99.

### ENVI 4F90

#### **BA Honours Thesis**

Original research project under faculty supervision.

Restriction: open to ENVI (ENVP single or combined) 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, ENVP 4F90 and ENVS 4F90.

### 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 (ENVP and ENVS single or combined) majors with approval to year 4 (honours).

Co-requisite: ENVI 4F90 or ENVI 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.  
Completion of this course will replace previous assigned grade in ENVP 4F91 and ENVS 4F91.

### ENVI 4F92

#### **BSc Honours Thesis and Research Seminar**

Original research project under faculty supervision.

Restriction: open to ENVI (ENVS single or combined) 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, ENVP 4F90 and ENVS 4F92.

### ENVI 4P21

#### **Issues of the Global System**

(also offered as INTL 4P21 and TOUR 4P21)

Emphasis on 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: minimum of 14.0 overall credits or permission of the Director.

Completion of this course will replace previous assigned grade in ENVP 4P21.

### ENVI 4P88

#### **Interdisciplinary Practicum and Seminar**

Research on a focussed environmental problem or task. Emphasis on problem definition, establishment of terms of reference, report preparation, communication and formal presentation.

*Seminar, workshop, 3 hours per week.*

Restriction: open to ENVI (ENVP and ENVS single or combined) 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 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 ENVI Co-op students.

## Film

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met.

#### FILM 1F94

##### Introduction to Film Studies

Critical and historical approaches to world cinema. Close analysis of selected films in relation to their cultural contexts.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

#### FILM 2F90

##### Film History and Research Methods

Approaches to film history, with emphasis on classical Hollywood cinema, European art cinema and the avant-garde.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 1F94.

#### FILM 2P20

##### Introduction to Popular Culture

(also offered as COMM 2P20 and PCUL 2P20) Historical, theoretical and critical approaches to various forms of popular culture (e.g., film, music, television, literature, periodicals and advertising).

*Lectures, seminar, lab, 4 hours per week.*

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 in which institutions (e.g., CBC, NFB) and selected artists identify and express a Canadian cultural imagination.

*Lectures, seminar, lab, 4 hours per week.*

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)

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, Amelio and Moretti.

*Lectures, 3 hours per week, plus film lab.*

Note: given in English. Knowledge of Italian not necessary. Italian majors will complete assignments in Italian.

#### 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

##### Contemporary Hispanic Film

(also offered as 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: given in English. Knowledge of Spanish not necessary. Spanish majors complete written assignments and exams in Spanish.

#### FILM 2P94

##### Popular Cinema

(also offered as COMM 2P94 and PCUL 2P94)

Popular cinema as art and institution with emphasis on film genres and cultural contexts.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 1F94.

#### FILM 2P95

##### Film Theory

Study of the major film theorists. 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 2P91 and FILM 3P91.

#### 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 and permission of the instructor.

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.*

## FILM

Restriction: permission of the department.  
Prerequisite: two FILM credits and permission of the instructor.  
Note: enrolment limited to 15 students.  
Materials fee required.

### 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.*

Prerequisite: one of FILM 2P20 and 2P21, 2F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F50.

### 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.*

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 3P92

#### Technology and Culture

(also offered as COMM 3P92 and PCUL 3P92)

Studies in the effects of technological change on cultural forms and the representations of technology in different media.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: FILM 2P20 or 2P21 or permission of the instructor.

### 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 filmmakers.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 2F90 or permission of the instructor.

### FILM 3P95

#### National Cinema

Study of selected national cinemas with emphasis on 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 different media, or the role of different media in specific social, historical or theoretical contexts.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 2F90 or FILM 2P20 and 2P21 or permission of the instructor.

### FILM 3P97

#### Gender and Film

(also offered as COMM 3P97 and WISE 3P97)

Gendered narratives in classical Hollywood cinema to the late 1950s, with emphasis on film constructions of femininity and masculinity, and the implications of spectatorship and ideology within classical film.

*Lectures, seminar, 3 hours per week, plus weekly film lab.*

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 1F90 and 2P91, or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F97.

### FILM 3P98

#### Screened Women

(also offered as COMM 3P98 and WISE 3P98)

Woman-centred films from early to contemporary cinema by women directors from different countries, contextualized in issues of feminist film theory and paradigm shifts in female representation, ideology and spectatorship.

*Lectures, seminar, 3 hours per week, plus weekly film lab.*

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 1F90 and 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F97.

### FILM 4F80

#### Directed Reading

Directed individual or group reading in an area of Film Studies.

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 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 70 percent major average, a minimum 60 percent non-major average, approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Prerequisite: FILM 4P30 and 4P31 (4F30) (may be taken concurrently).

Note: to register in the honours thesis, the student must consult the Undergraduate Program Adviser about topics, department regulations and the selection of an adviser.

### FILM 4P30

#### Theories of Mass Culture

(also offered as COMM 4P30 and PCUL 4P30)

Studies in cultural theory and its application to mass media texts, with special reference to the work of the Frankfurt School, French Structuralism and British

## Cultural Studies.

*Lectures, 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.

Completion of this course will replace previous assigned grade in FILM (COMM/ PCUL) 4F30.

setting, career planning, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to FILM Co-op students.

## 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) with approval to year 4 (honours) or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM (COMM/ PCUL) 4F30.

## 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 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



## Finance

*These courses are offered by the Faculty of Business.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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.

#### 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 discussions, 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 and 3P95.

#### 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 and combined Business majors.

Completion of this course will replace previous assigned grade in FNCE 2P91, 2P92 and 3P92.

#### 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, BBA Co-op, BBE and BCB majors until date specified in BIRT guide.

Prerequisites: ACTG 1P11 (minimum 60 percent), or ACTG 1P91 (minimum 60 percent); ECON 1P91 and 1P92; MATH 1P01 (1P93) or 1P98.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in FNCE 2P51 and 3P92.

#### 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 BIRT guide. In Winter Term open to BBA Co-op majors until date specified in the BIRT guide.

Prerequisite: FNCE 2P91 (3P92).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in FNCE 2P52.

#### 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 with emphasis on wills, trusts and estate freezing.

*Lectures, case discussions, 3 hours per week.*

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in BIRT 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 2P50 and 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 and BBE financial economics option students until date specified in BIRT 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.

Completion of this course will replace previous assigned grade in FNCE 4P06.

#### 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 BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06) 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 BIRT 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.

#### 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 BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06) 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 and BBE financial economics option students until date specified in BIRT 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.

#### FNCE 4P08

##### **Management of Financial Institutions**

Organizational structure and operating practices; self-regulation, government and international regulation of financial insti-

tutions; 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 BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06) 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 BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisites: FNCE 4P04 and 3P96 (4P06) 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 BIRT guide. After that date open to BAcc, BBA, BBE, BCB

and combined Business majors.

Prerequisite: FNCE 3P96 (4P06) or permission of the instructor.

Note: enrolment limited to 40 students per section.

#### FNCE 4P15

##### **Advanced Topics in Financial Theory**

Theoretical concepts from FNCE 3P96 are extended to include capital structure, dividend policy, leasing and mergers. May include computer applications of theory to empirical data.

*Lectures, 3 hours per week.*

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06).

Note: enrolment limited to 40 students per section.

#### FNCE 4P16

##### **Derivatives I**

Introduction to options and futures markets. Pricing principles and theory of these derivative securities as they apply to various trading and hedging strategies.

*Lectures, discussion, 3 hours per week.*

Restriction: open to BBA students approved to the finance concentration and BBE financial economics option students until date specified in BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06).

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in FNCE 4P11 and 4P12.

#### 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 BIRT 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.

## FINANCE

Completion of this course will replace previous assigned grade in FNCE 4P11 and 4P12.

### 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 BIRT guide. After that date open to BAcc, BBA, BBE, BCB and combined Business majors.

Prerequisite: FNCE 3P96 (4P06).

Note: enrolment limited to 40 students per section.

### FNCE 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.

## French

These course offerings are co-ordinated by the Department of Modern Languages, Literatures and Cultures.

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

#### 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.*

Prerequisite: FREN 1P03 or OAC French or OAC Français or French immersion.

#### FREN 1P01

##### Introductory French I

Basic French: vocabulary, structures, pronunciation, spoken French. Oral and written exercises. Language laboratory.

*Lectures, 3 hours per week; language lab, 1 hour per week.*

Note: normally taken by students who have Ontario grade 9 French or equivalent or less. See program notes regarding departmental confirmation of registration.

#### FREN 1P02

##### Introductory French II

Continuation of FREN 1P01. Basic French: vocabulary, structures, pronunciation, spoken French. Oral and written exercises. Language laboratory.

*Lectures, 3 hours per week; language lab, 1 hour per week.*

Prerequisite: FREN 1P01 or Ontario grade 10 or 11 French or equivalent.

Note: see program notes regarding departmental confirmation of registration.

#### FREN 1P03

##### Introductory French III

Continuation of FREN 1P02. Basic French: vocabulary, structures, pronunciation, spoken French. Oral and written exercises. Language laboratory.

*Lectures, 3 hours per week; language lab, 1 hour per week.*

Prerequisite: FREN 1P02 or equivalent.

Note: see program note 5 regarding departmental confirmation of registration.

#### 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 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 and Beyond

Selection of texts representative of a variety of genres, including the picture book, fairytale, short story and novel, with emphasis on the contemporary period. Theory of children's literature.

*Lectures, 3 hours per week.*

Prerequisite: FREN 1F90.

#### FREN 2P65

##### Culture and Civilization of France to 1700

From 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 2P60 and 3F82.

#### FREN 3P03

##### Grammar and Stylistics

Advanced grammar; stylistics and semantics of contemporary French. Applications to composition.

*Lectures, seminar, 3 hours per week.*

Prerequisite: FREN 2F00.

Completion of this course will replace previous assigned grade in FREN 3E81 and 3F81.

#### 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 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 day; intellectual trends; history, politics and society.

*Lectures, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade in FREN 2P60, 3E82 and 3F82.

#### 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.

## FRENCH

### 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 3P86

#### Women Writers of France

(also offered as WISE 3P86)

Texts chosen from various genres. Authors may include M. de France, M. de Navarre, Sévigné, Sand, Colette, Beauvoir, Duras, Yourcenar.

*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.

Completion of this course will replace previous assigned grade in FREN 3P31.

### 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.

Completion of this course will replace previous assigned grade in FREN 3P37.

### FREN 3P93

#### African Literature in French

African narrative, poetry and theatre. Historical, cultural, ideological and theoretical concerns.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

Completion of this course will replace previous assigned grade in FREN 3P62 and FREN 3P63.

### 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.

Completion of this course will replace previous assigned grade in FREN 3P62 and FREN 3P64.

### FREN 3P95

#### French Literature and Culture in Film

New Wave and popular cinema; adaptations of French novels; critical texts. Director may include Godard, Truffaut, Renais, Rohmer, Bessob, Chabrol, Lelouche, Duras.

*Lectures, seminar, 3 hours per week, plus film lab.*

Prerequisite: FREN 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 2F03 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit in literature.

### FREN 4P03

#### Advanced Composition and Stylistics

Advanced composition, formal considerations and writing tools, stylistics, rhetoric, idiomatic expression.

*Lectures, 3 hours per week.*

Prerequisite: FREN 3P03 (3E81 or 3F81).

Completion of this course will replace previous assigned grade in FREN 4F01, 4P01, 4P02 and 4P15.

### FREN 4P04

#### Translation II: Applications

Lexical, morphological, syntactic and semantic interrelationships between source text and target text; application of translation methodologies to a variety of texts.

*Lectures, 3 hours per week.*

Prerequisite: MLLC 3P94.

Completion of this course will replace previous assigned grade in FREN 4F01, 4P01 and 4P02.

### 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 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit in literature.

### FREN 4P55

#### Twentieth-Century French Literature from 1935 to 1970

Ideological and aesthetic perspectives. Texts chosen from various genres. Authors studied may include Malraux, Camus, Sartre, Giraudoux, Robbe-Grillet, Beckett, Char.

*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.

### FREN 4P56

#### French Literature after 1970

Contemporary aesthetic movements. Texts chosen from various genres. Authors studied may include Le Clézio, Yourcenar, Tournier, Bonnefoy, Modiano, Duras.

*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.

### 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 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit in literature.

### FREN 4P92

#### Research Project

Independent research project under the supervision of a faculty member.

Restriction: open to BFTS BA/BED majors and permission of the .

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 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit 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 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit in literature.

FREN 4V78

**2002-2003: Franco-Jewish Writers and the Holocaust**

The moral and spiritual questioning in the aftermath of the Holocaust as reflected in the works of Albert Cohen, Elie Wiesel and Liliane Atlan.

*Lectures, seminar, 3 hours per week.*

Prerequisite: FREN 2F03 and two FREN credits numbered 3(alpha)00 or above, with at least one-half credit in literature.

FREN 4V80

**2002-2003: Levinas**

(also offered as PHIL 4V07)

# Geography

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### 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, lab/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/seminar, 4 hours per week.*

### GEOG 2P02

#### Economic Geography

Theory and concepts of economic geography and the work of economic geographers. The organization of goods and services producing activities and their locational patterns. An overview of the geography of economic change in Canada and the United States since 1930.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GEOG 1F90 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.*

Prerequisite: GEOG 1F90 or permission of the instructor.

### GEOG 2P04

#### Introduction to Meteorology

(also offered as ENVI 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.*

Prerequisite: GEOG 1F91 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 or ERSC 1F01 (1F95) or permission of the instructor.

### GEOG 2P06

#### Cultural and Historical Geography

Interactions among culture, society and landscape. The material and symbolic manifestations of culture in processes of landscape change.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GEOG 1F90 or permission of the instructor.

### GEOG 2P07

#### Foundations of Geomatics

Basic spatial, metric, graphic and other concepts common to cartography, surveying, remote sensing and geographic information systems (GIS). Properties of maps and air photos. Principles of map compilation and design. Practical experience in computer map-making, field surveying, image interpretation and GIS analysis.

*Lectures, lab, field work, 4 hours per week.*

Prerequisite: one of GEOG 1F90, 1F91, ERSC 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. Study of the patterns of soils and plants

and their explanation. Spatial patterns of soils and vegetation communities and their explanation.

*Lectures, lab, 5 hours per week.*

Prerequisites: one of GEOG 1F91 and MATH 1P98, ERSC 1F01 (1F95) and MATH 1P98, CHEM 1F92 (CHEM 1P80 and 1P81 or CHEM 1P90 and 1P91) or permission of the instructor.

### 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.*

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 2P91

#### Geography of Canada

The analysis of factors underlying the development of Canada's distinctive regions, with emphasis on its major metropolitan areas, resource regions and areas of decline.

*Lectures, seminar, 4 hours per week.*

### GEOG 2P96

#### Environmental Problems and Development

Investigation of the current global environmental crisis, including population growth, global warming, deforestation, water pollution, and waste disposal. Consideration of environmental problems in the broader context of natural and human-induced (social, cultural, political, and economic) forces.

*Lectures, lab, 4 hours per week.*

Prerequisite: one of GEOG 1F90, 1F91,

ENVI 1P90 and 1P91, ERSC 1F90, 1F01 (1F95) 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 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 3F96

#### Landscape and Cultural Memory

(also offered as CANA 3F96 and MLLC 3F96)

Field course in Québec. Readings in literature and geography, exploring the links and reciprocal influences between disciplines. Authors studied may include Louis Hémon, Philippe Aubert de Gaspé, Roger Lemelin.

Restriction: consult the Chair regarding permission to register.

Prerequisite: CANA 2F91 or FREN 2F03 or permission of the instructor.

Note: field work for two weeks in May. Students are expected to pay their own expenses. Course given in English. French majors complete written assignments and exams in French. CANA students may count this as either Cultural Studies I or II and as a credit related to French Canada.

### 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.*  
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.*

Prerequisite: GEOG 2P07 or permission of the instructor.

### GEOG 3P05

#### Geographic Information Systems

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.*

Prerequisite: GEOG 2P07 or permission of the instructor.

### GEOG 3P07

#### Remote Sensing and Photogrammetry

Theory and practice of remote sensing. Photographic, thermal, multispectral and radar imaging from aircraft and satellites. Photogrammetric mapping. Image interpretation, and digital image processing using Idrisi32.

*Lectures, lab, 4 hours per week.*

Prerequisite: GEOG 2P07 or permission of the instructor.

### GEOG 3P10

#### Applied Climatology

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.*

Prerequisite: GEOG 2P04 or permission of the instructor.

### GEOG 3P12

#### Climate and Winegrape Production

(also offered as OEVI 3P12)

Climatological aspects of winegrape production. Emphasis on selected wine regions of the world. The effects of

climate, weather-related diseases, topography, soil and viticulture practices on winegrape production.

*Lectures, lab, field work, 4 hours per week.*

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 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 or ERSC 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 or 3P25 or permission of the instructor.



## GEOGRAPHY

### 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 3P36

#### **Fluvial Geomorphology**

(also offered as ERSC 3P36)

River basins, channel morphology, flood frequency analysis, elementary flow mechanics and sediment transport; analysis of river records; long term changes in river systems. Introduction to HEC-RAS flow modelling.

*Lectures, lab, 6 hours per week.*

Prerequisite: GEOG 2P05 or permission of the instructor.

### GEOG 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.*

Prerequisite: one of GEOG 2P02, 2P03, 2P06 or permission of the instructor.

### GEOG 3P52

#### **Contemporary Issues in Social Geography**

Spatial distribution of social well-being in Western society: work, housing, crime, gender, race, ethnicity in relation to the underlying structures of inequality, exploitation and alienation.

*Lectures, seminar, 4 hours per week.*

Prerequisites: GEOG 2P03 or 2P06; GEOG 2P10 or permission of the instructor.

### GEOG 3P53

#### **Community Development and Social Planning**

Geographical approach to conceiving community and planning for community empowerment. Theories, policy perspectives and empirical studies from Canada and around the world.

*Lectures, seminar, 4 hours per week.*

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 during registration week in early September. 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 during registration week in early September. 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 bases for spatial interaction, networks and flows. The transportation planning process and transportation policy analysis.

*Lectures, seminar, 4 hours per week.*

Prerequisite: GEOG 2P02 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.*

Prerequisite: GEOG 1F90 or TOUR 1P98 (2P08).

Completion of this course will replace previous assigned grade in GEOG (TOUR) 3V60.

### 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.*

Prerequisite: one of GEOG 2P02, 2P03, 2P06, WISE 2P90 (2F90), 2P91, COMM 2P20 and 2P21 or permission of the instructor.

### GEOG 3P81

#### **Environmental and Developmental Problems in the Third World**

Interrelationships between physical and human factors and development; poverty and environmental problems; natural resource exploitation and sustainable development; humans as agents of change in desertification, deforestation, soil erosion and environmental pollution and their impact on climate, hydrologic cycle and nutrient cycling processes. Selected studies of regions that are marginal in terms of carrying capacity and ecological fragility.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: GEOG 1F90 or 1F91 or permission of the instructor.

## GEOG 3P83

**Geography of Water Resources**

Physical and human factors affecting patterns of use and development of water resources. Emphasis will be on patterns of supply and demand, approaches to development and management of the resource, problems and alternative strategies. *Lectures, seminar, 4 hours per week.*

Prerequisites: one GEOG credit numbered 2(alpha)00 to 2(alpha)99 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.*

Prerequisite: GEOG 2P02 or 2P06 or permission of the instructor.

## GEOG 3P85

**Ecology of a Changing Planet**

(also offered as BIOL3P85 and ERSC3P85) 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.*

Prerequisites: GEOG 2P09; BIOL 2P05 or 2Q04 or permission of the instructor.

## GEOG 3P86

**Themes in Cultural Geography**

Geographies of culture and cultural politics. Focus upon landscapes and the ways in which multiple meanings attached to them are implicated in relationships of power. *Lectures, seminar, 4 hours per week.*

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.*

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.*

Prerequisite: GEOG 2P02 or 2P06 or permission of the instructor.

Note: GEOG 3P84 strongly recommended.

## GEOG 3P90

**GIS Applications in Human Geography**

Introduction to private and public sector GIS data. GIS analytical capabilities in the context of their real world applications using MapInfo and Idrisi. Choice and design of GIS applications by defining a problem, collecting, inputting, analysing, and outputting data in GIS. *Lectures, lab, 5 hours per week.*

Prerequisite: one of GEOG 3P05, 3P95 or permission of the instructor.

## GEOG 3P91

**GIS Applications in Physical Geography**

Exploration of GIS data sources and analytical techniques, with emphasis on GIS analytical capabilities for solving real world problems using MapInfo and Idrisi. Choice and design of GIS applications by defining a problem, searching, inputting, analysing, and outputting data in GIS. *Lectures, lab, 5 hours per week.*

Prerequisite: one of GEOG 3P05, 3P95 or permission of the instructor.

## GEOG 3P95

**Advanced Geographic Information Systems**

Further study of geographic information systems, with emphasis on 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.*

Prerequisite: GEOG 3P05.

## GEOG 3V60-3V69

**Special Topics in Geography**

Topics selected from year to year on the basis of faculty expertise.

## GEOG 3V66

**2002-2003: Geography of Urban Planning**

Historical development of urban planning in Canada, planning theory and key aspects of current municipal land use planning practice in Ontario. Topics may include the Ontario Planning Act, the policy and development approvals processes, inner-city planning, community design, community development and growth management. *Lectures, seminar, 4 hours per week.*

Prerequisite: GEOG 2P03 or permission of instructor.

## 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;*

## GEOGRAPHY

*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 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.*

Prerequisite: GEOG 2P04 and 3P10 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 4F11.

### 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.*

Prerequisite: GEOG 2P04 and 3P10 or permission of the instructor.

Completion of this course will replace previous assigned grade in GEOG 4F11.

### GEOG 4P20

#### Snow and Ice Hydrology

Hydrological processes involving snow, ice and frozen ground and their place in a geographical and environmental context.

Topics include snowfall and drifting snow, the formation and evolution of the snow pack, snowmelt, avalanches, ice growth and decay on lakes and rivers, ice jams, glaciers and glacial hydrology; ground ice and permafrost hydrology.

*Seminar, lab, field work, 3 hours per week*

Prerequisite: one of GEOG 3P22, 3P23, 3P24 or permission of the instructor.

### GEOG 4P26

#### Advanced Fluvial Geomorphology

(also offered as ERSC 4P26)

Study of steep, rough river systems with emphasis on boulder bed and rock bed channels.

*Seminar, lab, field work, 3 hours per week.*

Prerequisites: 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, 3 hours per week.*

Prerequisite: GEOG 3P24 or 3P26 or permission of the instructor.

### GEOG 4P60

#### Advanced Urban-Economic Geography

Conceptual and theoretical background to recent developments in global cities and service industries.

*Seminar, 3 hours per week.*

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, 4F65 and 4F69.

### 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, 4F65 and 4F69.

### 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 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 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.

## German

*These course offerings are co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

#### 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.*

Prerequisites: GERM 1F00 (1P01 and 1P02) 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)

The 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 1P94

##### Culture and Civilization of Central Europe: The Holy Roman Empire

Forms of cultural expression in central Europe from the foundation of the Ottonian Empire to the Counter-Reformation. An illustrated survey of the arts, architecture and literature.

*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.

Completion of this course will replace previous assigned grade in GERM 2F00 or 2F20.

#### 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 2P30

##### Culture and Civilization of Central Europe: Reformation to Revolution

Stages in early modern central European cultural development including art and architecture of the 15th to 18th century in their social and political contexts.

*Lectures, 3 hours per week.*

Note: given in English.

Completion of this course will replace previous assigned grade in GERM 1P95.

#### GERM 2P31

##### Culture and Civilization of Central Europe: Romanticism to Postmodernism

Evolution of modern central Europe. Art and architecture in the context of growing nationalism during the 19th and 20th centuries.

*Lectures, 3 hours per week.*

Note: given in English.

Completion of this course will replace previous assigned grade in GERM 1P96.

#### GERM 3F99

##### Advanced Language Study I

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 (2F00, 2F20 or 2P91 and 2P92) or permission of the instructor.

#### GERM 3P20

##### German Literature from 1900 to 1945

Poetry, drama and prose of the first half of the 20th-century. Experiments in form and content: Thomas Mann, Hermann Hesse, Franz Kafka. The literature of totalitarianism.

*Lectures, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00, 2F20 or 2P91 and 2P92) or permission of the instructor.

#### GERM 3P21

##### German Literature from 1945 to Present

Poetry, drama and prose of the postwar period in Germany, Austria and Switzerland. New experiments in Frisch, Handke, Süskind.

*Lectures, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00, 2F20 or 2P91 and 2P92) or permission of the instructor.

#### GERM 3P98

##### Practicum in Germany

An opportunity to work for three months in a German firm to acquire practical skills as well as language proficiency.

Prerequisite: working knowledge of German.

Note: the practicum may be repeated as GERM 4P98 only by students in the honours program.

#### GERM 4F10

##### Advanced Language Study II

The development of greater proficiency in German through simultaneous translation, written translations, discussions and essays on contemporary issues.

*Language/computer lab, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00, 2F20 or 2P91 and 2P92) or permission of the instructor.

## GERMAN

### GERM 4P16

#### Tutorial I

Advance 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.

### GERM 4P17

#### 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.

### GERM 4P21

#### Romanticism

Critical theory and literature of the first half of the 19th century. Works by writers such as Novalis, Eichendorff, Kleist, Heine and Büchner.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00 or 2F20) or permission of the instructor.

### GERM 4P22

#### Realism to Naturalism

Critical theory and literature from the second half of the 19th-century. Works by writers such as Hebbel, Fontane, Keller, Storm, Hauptmann and Wedekind.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00 or 2F20) or permission of the instructor.

### GERM 4P23

#### Enlightenment to Storm and Stress

Literature and literary theory from the Enlightenment to Storm and Stress. The dramatic literature and criticism of the 18th-century from Gottsched to Goethe.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00 or 2F20) or permission of the instructor.

### GERM 4P24

#### Classicism

Classic drama, prose and essays by Goethe and Schiller. Goethe's Faust.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00 or 2F20) or permission of the instructor.

### GERM 4P25

#### Medieval German Literature

An introduction to the poetry of the Minnesänger from 1050 to 1250. The Tristan of Gottfried von Strassburg.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GERM 2F90 (2F00 or 2F20) or permission of instructor.

Note: GERM 2P95 recommended.

### GERM 4P98

#### Practicum in Germany

See GERM 3P98.

## Great Books/Liberal Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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.

*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.

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 for two terms.*

Note: there is an additional field trip fee associated with this course to cover admission and possibly transportation to venues.

#### GBLS 2F97

##### Shakespeare

(also offered as ENGL 2F97)

Poetry and Sonnets; representative plays from all genres: histories, comedies, tragedies and romance; a selection of Sonnets.

*Lectures, seminar, 3 hours per week.*

Prerequisite: GBLS 1F90 or one ENGL credit numbered 1 (*alpha*)90 to 1 (*alpha*)99 or permission of the instructor.

Completion of this course will replace previous grade assigned in DART 3F97 and DRAM 3F97.

#### GBLS 2P70

##### Religions of the World

Development and character of major religious traditions and world views.

*Lectures, seminar, 3 hours per week.*

#### 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

Important works of Art literature, philosophy, science and theology from the ancient world until the 16th century.

*Seminar, 3 hours per week.*

Prerequisite: GBLS 1F90 or permission of the Director.

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.*

#### 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.

Completion of this course will replace previous assigned grade in VISA 2P90.

## GREAT BOOKS/LIBERAL STUDIES

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.

Completion of this course will replace previous assigned grade in VISA 2P91.

GBLS 3F42

### **Poetry and Poetics**

(also offered as ENGL 3F42)

Language, form and technique in poetry with a focus on the modern and contemporary periods.

*Lectures, seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 credit and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

GBLS 3F93

### **Literary Criticism**

(also offered as ENGL 3F93)

Literary criticisms from Brooke and Leavis. Emphasis on enduring literary critical problems and on the relationship between the essay and other modes of literary criticism.

*Seminar, 3 hours per week.*

Prerequisites: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 and two ENGL credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

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.*

GBLS 3P90

### **Great Books Seminar III**

Important works of art, literature, philosophy, science and theology from the 16th through the 19th centuries.

*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 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.*

Prerequisite: MUSI 1F50 and 2F90 or GBLS 1F90 and 2P91 or permission of the instructor.

GBLS 3P97

### **Medieval Literature and Culture**

(also offered as MLLC 3P97)

Literature and culture of the Middle Ages in Europe. Works selected from among poetry, the epic and the romance.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F20, ITAL, 2F00, SPAN 2F00 or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade in MLLC 3P91.

GBLS 3P98

### **Renaissance Literature and Culture**

(also offered as MLLC 3P98)

The Renaissance as transcultural phenomenon; historical and geographical parameters; social and political factors in its emergence and development; intellectual and aesthetic foundations as expressed in essential literary texts and essays.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F20, ITAL 2F00, SPAN 2F00 or permission of the instructor.

Note: given in English.

Completion of this course will replace previous assigned grade in MLLC 3P92.

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 2F20, ITAL 2F00, SPAN 2F00 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, mon-archival and tyrannical government as explored in selected Shakespearean comedies, tragedies and histories.

*Seminar, 3 hours per week.*

Restriction: open to GBLS (single or combined) and POLS (single or combined) majors until date specified in the BIRT guide. After that date open to English Plus, 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.*

Prerequisite: POLI 2P91 and 2P92 (2F90) or 2P93 (2P01 and 3P01) 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**

Important works of art, literature, philosophy, science and theology from the 19th and 20th centuries.

*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 4P99

**Senior Essay and Workshop**

Discussion of GBLSs and issues related to the preparation of a senior Great Books/Liberal Studies essay.

*Seminar, tutorial, two terms.*

GBLS 4V00-4V09

**Selected Problems in Political Theory**

(also offered as POLI 4V00-4V09)

A particular writer, work or theoretical problem in political philosophy.

*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

GBLS 4V71

**2002-2003: Later 19th-Century Thought**

(also offered as ENGL 4V71)

Writings in social criticism, aesthetics, education, science and philosophy from Arnold and Darwin to Pater and Wilde.

Completion of this course will replace previous assigned grade in ENGL 4P31.



# Greek

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### GREE 1P01

#### Language (Introductory) I

Fundamentals of Greek. Selections from various Greek authors.

*Lectures, seminar, 4 hours per week.*

Note: students who have studied classical Greek before coming to university should identify themselves to the department; such students may be eligible to enrol in GREE 2P01.

### 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, 4 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 3V00

2002-2003: Homer, *Odyssey* 6-8

### 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 3V10

2002-2003: Herodotus: Selections from the *Histories*

### 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 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 4V52

2002-2003: Aristophanes III: A Later Comedy

### 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.

## History

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

See pages 222-223 for a list of approved History courses offered by other departments.

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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, with an emphasis on class, colonialism, economics, gender, labour, political systems, race, religion, revolution and war.

*Lectures, seminar, 3 hours per week.*

#### HIST 1P92

##### Early Medieval Europe

Societies and culture of Western Europe from the late Roman Empire until the Crusades and the 12th-century Renaissance. The agricultural base of society, its cultural context, the nature and roles of early Christianity and the ultimate survival and expansion of Christendom in the face of both pagan and Muslim challenges.

*Lectures, seminar, 3 hours per week.*

#### HIST 1P93

##### The High Middle Ages

The economy, society, culture and politics of Western Europe, 1050-1350.

Ecclesiastical problems, religious beliefs, scholasticism, material culture and family structures in the context of urban and mercantile expansion.

*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.*

#### 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.*

#### HIST 2P01

##### Pre-Confederation Canada

Canadian history from the pre-contact period to 1867.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in HIST 2P07 and 2P11.

#### HIST 2P02

##### Post-Confederation Canada

Canadian history from 1867 to the present.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in HIST 2P11 and 2P12.

#### HIST 2P15

##### Glory and Despair: The United States 1608-1865

United States history and culture from the invasion of the North American continent by Europeans to the breakup 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.*

Completion of this course will replace previous assigned grade in HIST 2F97, 2P79, 2P80, 2P81 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.*

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.*

#### 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.*

#### 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.*

#### 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.*

## HISTORY

### HIST 2P51

#### Europe 1815-1914

Political, social and cultural changes in the subcontinent when liberal, imperialist and industrializing Europe was still a dominant global power.

*Lectures, seminar, 3 hours per week.*

### 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.*

### HIST 2P61

#### Columbus' World, 1400-1600

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.*

### HIST 2P62

#### Early Africa

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.*

### HIST 2P63

#### Modern Africa

Social political, cultural and economic history of 20th-century Africa.

Topics may include, colonialism, the drive for independence and the emergence of modern African States.

*Lectures, seminar, 3 hours per week.*

### HIST 2P90

#### Piety, dissent and reform: the roots of the Reformations

Various forces that underlay efforts to revitalize and reform the Christian church between 1300 and 1530.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in HIST 2F90.

### 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.*

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.*

### HIST 2P98

#### Modern Russia

Politics, society and culture from 19th-century Imperial Russia to the Soviet Union.

*Lectures, seminar, 3 hours per week.*

### 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.*

### HIST 2Q90

#### Canada: A Nation Transformed

Themes in late 19th- and early 20th-century Canadian history.

*Lectures, seminar, 3 hours per week.*

### 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.*

### HIST 2Q96

#### Women in the Pre-Modern World

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.*

### HIST 2V90-2V99

#### History in its Environment

(also offered as SPAN 2V90-2V99)

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.

### HIST 2V91

#### 2002-2003: Central American Issues

(also offered as SPAN 2V91)

Focuses on one or more of the following topics: indigenous cultures, collapse of the Central American Republic, Manifest Destiny, the Monroe doctrine, revolution, Liberation Theology, and plantation agriculture.

Note: given in English. Students are responsible for travel, accommodation and other expenses. See History Department's home page for details.

### 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.*

### HIST 3F81

#### Modern Latin America

Latin America since 1810. Emphasis on wars of independence, personalistic rule, labour, immigration, the role of the Roman Catholic Church, militarism, revolutions, failures of modernization and inter-American relations.

*Lectures, seminar, 3 hours per week.*

### HIST 3P00

#### Ideas and Culture since 1850

(also offered as GBLS 3P00)

Intellectual and cultural developments in Europe and North America during the late 19th and 20th centuries.

*Lectures, seminar, 3 hours per week.*

### HIST 3P01

#### Canadian Prime Ministers, 1867 to the present

Themes in Canadian history and historiography, with prime ministers as a focus.

*Lectures, seminar, 3 hours per week.*

**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 3P60**  
**The World of Genghis Khan: Inner Asia since 500 BCE**

The history of Mongolia, Tibet and Xinjiang. Political, economic, social and cultural topics. Emphasis on the nomadic encounter with the settled world (China, Russia, etc.), including the medieval nomadic invasions, the Great Game and nationalistic policies in the 20th-century.

*Lectures, seminar, 3 hours per week.*

Note: seminars will include films and primary sources (in translation).

**HIST 3P61**  
**Diplomacy of the Pacific Rim**

History of relations among the major powers along the Pacific Ocean. Focuses on China and Japan and their interaction with the world since the 16th-century.

*Lectures, seminar, 3 hours per week.*

**HIST 3P62**  
**Global Economic History, 1700-1880**

Cotton, china, opium: development of the world economy in an age of industrial growth.

*Lectures, seminar, 3 hours per week.*

**HIST 3P63**  
**Selected Themes in the History of Europe's Global Influence, 1600-1950**

Europe's impact on the world and regional responses to it.

*Lectures, seminar, 3 hours per week.*

**HIST 3P74**  
**Canadian Immigration and Ethnic History**

Immigrants, immigration movements, problems of adjustment and government policies.

*Lectures, seminar, 3 hours per week.*

**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.*

Completion of this course will replace previous assigned grade in HIST (CANA/LABR) 3Q95.

**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.*

**HIST 3P91**  
**North America's First Nations**

Topics in the history of North American aboriginal peoples.

*Lectures, seminar, 3 hours per week.*

**HIST 3P94**  
**Twentieth-Century Latin American Revolutions**

(also offered as SPAN 3Q94)

The 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.*

**HIST 3P97**  
**United States Foreign Policy since 1945**

U.S. foreign policy during the Cold War era; rise of the U.S. to superpower status; consequent global responsibilities.

*Lectures, seminar, 3 hours per week.*

**HIST 3P98**  
**French Canada**

The cultural, economic and political institutions of French Canada; analysing the sources of French-English conflict with emphasis on questions such as education, cultural values, imperial defence and conscription.

*Lectures, seminar, 3 hours per week.*

**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.*

**HIST 3Q91**  
**Canadian Regional History**

Selected themes in the history of Canada's regions.

*Lectures, seminar, 3 hours per week.*

**HIST 3Q92**  
**African American Experience**

African American history and culture since the first introduction of peoples from Africa to the North American continent to the present day. Topics to be examined include: the origins of slavery, the development of slave culture, the varied forms of slave resistance, the Civil War and emancipation, the rise of sharecropping, the formation of ghettos, segregation, the Harlem Renaissance, African Americans in the World Wars, the Civil Rights Movement, urban housing and social problems, the rise of rap music.

*Lectures, seminar, 3 hours per week.*

**HIST 3Q96**  
**Medieval Social and Cultural History**

Selected topics in European history between 500 and 1500.

*Seminar, 3 hours per week.*

**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.*

**HIST 3V90-3V94**  
**Topics in Canadian Cultural History**

*Lectures, seminar, 3 hours per week.*

Prerequisite: CANA 2F91 or two HIST credits numbered 2(alpha)00 to 2(alpha)99 or permission of the instructor.

**HIST 3V91**  
**2002-2003: Myth, Memory and Meaning in Canadian Cultural History**  
(also offered as CANA 3V91)

Examination of how different groups and different individuals have remembered, commemorated and assigned meanings to the past, focussing primarily on the post-Confederation period.

Prerequisite: CANA 2F91 or two HIST

## HISTORY

credits numbered 2(*alpha*)00 to 2(*alpha*)99 or permission of the instructor.

HIST 3V95-3V99

### **Topics in Medieval History**

*Lectures, seminar, 3 hours per week.*

HIST 4F99

### **Honours Tutorial**

Directed reading and discussion in the student's selected field in preparation for a comprehensive examination. Honours students who are interested in this course may begin their reading for HIST 4F99 in year 3. Restriction: open to HIST (single or combined) majors with approval to year 4 (honours) until the date specified in the BIRT 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.

HIST 4P55

### **Advertising, Mass Media and Culture**

(also offered as COMM 4P55 and PCUL 4P55)

Advanced historical research into the development of Canadian advertising practices in an international context. Examination of the cultural and economic impact of advertising on the mass media, as well as the role of advertising in the formation of a consumer culture.

Restriction: open to HIST (single or combined), COMM (single or combined) and PCUL (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

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 the date specified in BIRT guide and then open to other students with permission of the department.

HIST 4V00

### **2002-2003: Literature of the English Revolution**

(also offered as ENGL 4V00)

Literary, critical, historical and theoretical perspectives of texts from the 1640s to the Restoration, including Areopagitica, Eikon Basilike, female prophecy and Agreement of the People.

Restriction: open to HIST (single or

combined), English Plus and ENGL (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) or permission of the instructor.

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 the date specified in the BIRT guide and then open to other students with permission of the department.

HIST 4V13

### **2002-2003: Canadian Women's History**

The social, economic and political activities of women in Canadian history, concentrating on the late 19th and the 20th centuries. Ethnic/racial and class variations in women's experience.

HIST 4V43

### **2002-2003: Censorship: A Comparative Approach**

Comparison of the attitudes and approaches to censorship in different contexts between the Middle ages and the 20th century; topics include the Inquisition, the English Civil War, absolute monarchy, the French Revolution and the totalitarian state.

HIST 4V55

### **2002-2003: The Medieval Expansion of Europe: 1000-1300**

From the Viking voyages to Vinland to Marco Polo's journey to China, a thematic exploration of the ways in which European society expanded in addition to geographical expansion and exploration. Social, intellectual, technological and cultural developments and innovations.

HIST 4V69

### **2002-2003: Comparative Slavery and Emancipation**

Slavery and emancipation in classical, medieval, African, South American, North American, and Asian contexts.

# Information Technology Information Systems

*These courses are offered by the  
Faculty of Business.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

ITIS 1P97

### Management of Information Systems

General information systems concepts. The use and management of information systems and information technology in business organizations including the web, Internet, intranet, extranet and e-commerce. The application and evaluation of control and security measures in information system resources.

*Lectures, labs, 3 hours per week.*

Restriction: open to BBA and BAcc until date specified in BIRT guide. In Fall term open to students admitted to BBA and BAcc Co-op until date specified in BIRT guide. After that date open to BBA and BAcc students.

ITIS 3P97

### Management Information Technology

Information systems in business organizations. The analysis, design, implementation and maintenance of information systems to increase quality, acceptance and productivity within the organization and to improve customer service.

*Lectures, labs, 3 hours per week.*

Restriction: open to BBA students.

Prerequisite: ITIS 1P97

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in ACTG 3P22 and MGMT 4P12.

# International Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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

### INTL 1F90

#### Introduction to International Studies

Today's world as understood from differing 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 1P95.

### 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 (ENVP) 1P90 and 1P91; MATH 1P98 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 2P94 and 3P44.

### 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 and students intending to complete the Concentration in International Studies with a minimum of 8.0 overall credits and permission of the Director.

Prerequisite: INTL 1F90 (1P95) or 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 of the Environment for registration instructions. Registrants are expected to defray the cost of travel, accommodation and other expenses.

### 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.*

Prerequisites: INTL 1F90 (1P95) or ENVI (ENVP) 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. Completion of this course will replace previous assigned grade in ENVP 3V25-3V29.

### INTL 4P21

#### Issues in the Global System

(also offered as ENVI 4P21 and TOUR 4P21)

Emphasis on power relationships, cultural patterns, globalization and extra-state

phenomena such as pollution and disease. Role and possibilities for leadership, with a view to leadership development.

*Seminar, 3 hours per week.*

Restriction: minimum of 14.0 overall credits or permission of the Director.

Completion of this course will replace previous assigned grade in ENVP 4P21.

## Italian

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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

Grammar review; emphasis on more complex structures; composition and oral practice. Discussions based on selected literary texts.

*Lectures, 3 hours per week; language lab, 1 hour per week.*

Prerequisite: ITAL 1F00 or 1F01 or OAC Italian or two or more years of high school Italian or permission of the instructor.

#### ITAL 1P95

##### Italian Culture and Civilization

The 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.

Completion of this course will replace previous assigned grade in ITAL 1F95.

#### ITAL 2F00

##### Language, Literature and Culture

Advanced grammar, 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 2P11

##### Modern and Contemporary Italian

##### Culture and Civilization

The historical changes and key issues in 19th- and 20th-century Italy focussing on 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.

#### 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, 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

with focus 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. Focus on interference between English and Italian. Introduction to business correspondence.

*Lectures, 3 hours per week.*

Prerequisite: ITAL 1F90 or permission of the instructor.

#### ITAL 3F93

##### Dante, Petrarch and Boccaccio

Major works of three of Italy's greatest writers. Selections from Dante Alighieri's *La Divina Commedia*, Francesco Petrarca's *Il Canzoniere* and Giovanni Boccaccio's *Decameron*.

*Lectures, 3 hours per week.*

Prerequisite: ITAL 2F00 or permission of the instructor.

Completion of this course will replace previous assigned grade in ITAL 3F96 or 3P93.

#### ITAL 3P90

##### Italian Romanticism: Prose and Poetry

Major texts of the Italian Romanticism, including Manzoni, *I Promessi Sposi* and selections from Leopardi's *Canti* and the works of Foscolo.

*Lectures, 3 hours per week.*

Prerequisite: ITAL 2F00 or permission of the instructor.

#### ITAL 3P94

##### The Modern Novel

Representative novels from leading modern and contemporary writers such as Pirandello, Moravia, Pavese, Buzzati, Silone, Vittorini, Calvino, Sciascia, Banti, Ginsburg.

*Lectures, 3 hours per week.*

Prerequisite: ITAL 2F00 or permission of the instructor.

#### ITAL 3P96

##### Visual and Poetic Imagery

Patterns of imagery in modern poetic and prose texts as well as in modern Italian art.



## ITALIAN

Tendency toward visual representation in scripted texts, lyricism and narrative in visual art. Twentieth century poetry, novels and short stories; metaphysical painting, futurism, abstract and concrete art as well as segments of films.

*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 multimedia 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 4M00-4M09

#### **Special Topics in Italian**

Special topic in an area not represented by other courses.

### 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: MLLC 3P94

### 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, popular and classical music, artistic works and monuments.

*Lectures 3 hours per week.*

Prerequisite: students must have a minimum of 5.0 ITAL credits or permission of the instructor.

Note: offered under the auspices of the Ministry of Foreign Affairs, Italy, through the Dante Alighieri Society, Niagara Region. Participation in a symposium and guest lecturers.

## Japanese

*These course offerings are co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### JAPA 1P81 Japanese IV

Oral and written communication skills. Focus on writing skills and further development of grammatical structure.

*Lectures, lab, 4 hours per week.*

Prerequisite: JAPA 1P80 or permission of the instructor.

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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.

### JAPA 1P00

#### Japanese I

Elementary conversational Japanese. Focus on developing listening skills, basic grammatical structure, and understanding customs. Introduction to essential grammar and hiragana and katakana syllabaries.

*Lectures, lab, 4 hours per week.*

Note: open to students with limited or no background in the language.

### JAPA 1P01

#### Japanese II

Conversational Japanese with emphasis on cultural knowledge and customs. Introduction of approximately 200 kanji (Chinese characters).

*Lectures, lab, 4 hours per week.*

Prerequisite: JAPA 1P00 or permission of the instructor.

### JAPA 1P80

#### Japanese III

Everyday communication skills. Focus on vocabulary building, grammatical structure and reading skills.

*Lectures, lab, 4 hours per week.*

Prerequisite: JAPA 1P01 or permission of the instructor.

# Labour Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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 1P91

#### Introduction to Labour Studies

History of Canadian workers and unions. The evolution of work and the labour movement within the context of the social, economic and political lives of workers. The historical relationship between employers and employees and the basis for their conflict and co-operation.

*Lectures, seminar, 3 hours per week.*

### LABR 1P92

#### Introduction to Issues in Labour Studies

Core concepts and key issues in work and labour in contemporary Canadian society. Topics may include the organization of work, technological change, occupational health and safety, pay and employment equity, women in the paid labour force, economic restructuring and its effect on work and labour and the changing face of the labour movement.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LABR 1P91 or permission of the instructor.

### LABR 2F00

#### Labour Law and Labour Unions

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.*

Prerequisites: LABR 1P91 and 1P92 or permission of the instructor.

### 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; personnel and budgetary processes; the policy process; ethics and accountability.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of LABR 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 (COMM/ POLI) 3F51 and POLI 3P50.

### 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

#### The Sociology of Work

(also offered as SOCI 2P32)

Changes in the organization of work and the composition of the work force with emphasis on the Niagara Peninsula. Topics include unionization, management strategies, pay equity and employment equity, international division of labour and other current issues in the Canadian labour movement.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LABR and SOCI (single or combined) majors until date specified in the BIRT guide. Prerequisite: LABR 1P91 and 1P92 or SOCI 1F90 or permission of the instructor.

### LABR 2P34

#### Trade Unions

(also offered as SOCI 2P34)

Interdisciplinary approach to the study of

trade unions. Economic, political and sociological understanding of the role of trade unions in society. May include an international comparative perspective.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LABR 1P91 and 1P92 or permission of the instructor.

### LABR 2P86

#### Women in the Economy

(also offered as ECON 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 earnings difference by gender, the 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: open to WISE majors until date specified in the BIRT guide. 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 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 1P91 and 1P92, ECON 1P91 and 1P92, one POLI credit numbered 1(alpha)90 to 1(alpha)99, SOCI 1F90.

### LABR 3F00

#### Labour Studies Seminar

Advanced study of contemporary issues in Labour Studies with emphasis on stu-

dents' research and analysis.

*Seminar, 3 hours per week.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisites: LABR 1P91, 1P92 and one other LABR credit or permission of the instructor.

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 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. Emphasis on 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 and Work**

(also offered as SOCI 3P30 and WISE 3P30)

Quantitative and qualitative research exploring the societal significance and implications of the change in women's participation in paid employment and domestic labour in this century. Topics include the ghettoization of the female labour force, women in professional and non-traditional occupations, microtechnology, part-time work and unionization.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LABR, SOCI (single or combined) and WISE majors until date specified in the BIRT guide.

Prerequisite: one of LABR 1P91 and 1P92, SOCI 1F90 or WISE 1F90 or permission of the instructor

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. The 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 BIRT guide. Prerequisite: LABR 1P91 and 1P92 or SOCI 1F90 or permission of the instructor.

LABR 3P33

#### **The State and Economic Life**

(also offered as POLI 3P33)

Political economy and the role of the state. Relationships between politics and markets and between democracy, capitalism and socialism. Topics may include regulation, public ownership, taxation, fiscal and monetary policy, income support programs, regional development and the screening of foreign direct investment.

*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 BIRT guide. Prerequisite: LABR 1P91 and 1P92 or SOCI 1F90 or permission of the instructor.

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 BIRT guide. Prerequisite: LABR 1P91 and 1P92 or SOCI 1F90 or permission of the instructor.

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.*

Completion of this course will replace previous assigned grade in LABR (CANAL/HIST) 3Q95.

## LABOUR STUDIES

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 1P91 and 1P92 or permission of the instructor.

LABR 3V95-3V99

### Directed Studies

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 1P91 and 1P92.

Note: topics must be chosen in consultation with a faculty member willing to supervise.

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 3F00.

Co-requisite: LABR 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 4P91.

Note: the faculty facilitator, organization/trade union supervisor and student will negotiate a mutually satisfactory project and work schedule.

LABR 4P15

### Canadian Political Economy

(also offered as POLI 4P15)

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) majors and students with a concentration in LABR 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 majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or LABR credits or permission of the instructor.

Note: SOCI 2P32 recommended.

LABR 4P54

### Business-Government Relations

(also offered as POLI 4P54)

The 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 POLS (single or combined) majors and students with a concentration in LABR 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 (3F51) or POLI 3P50 or permission of the instructor.

Note: also open to non-POLI majors with a relevant background in other disciplines and permission of the department.

LABR 4P91

### 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(s) applications.

*Seminar, 3 hours per week.*

Prerequisite: LABR 3F00.

Co-requisite: LABR 4F90 or 4F91.

LABR 4P92

### Directed Studies I

Guided reading on a topic not covered in the program'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 program'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 4V80-4V89

### Special Topics in Labour Studies

Selected topics not covered in the department's regular course offerings.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LABR majors with approval to year 4 (honours).

## Latin

*These course offerings are co-ordinated by the Classics Department.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

#### 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 may 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 LATI or permission of the department.

#### LATI 2P02

##### Language and Literature II

Further intermediate selections from Latin authors. Latin prose composition.

*Lectures, seminar, 4 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 may vary from year to year).

*Lectures, seminar, 3 hours per week.*

Prerequisite: LATI 2P02 or permission of the instructor.

#### LATI 3V10

2002-2003: Cicero, *pro Milone*

#### LATI 3V90-3V99

##### Roman Lyric and Elegy

Selections from Horace, Catullus, Tibullus, Ovid and Propertius (authors and works may vary from year to year).

*Lectures, seminar, 3 hours per week.*

Prerequisite: LATI 2P02 or permission of the instructor.

#### LATI 3V91

2002-2003: Propertius, *Elegies I*

#### LATI 4V00-4V09

##### Roman Epic, Didactic and Pastoral Poetry

Selections from Vergil and Lucretius (authors and works may 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 may vary from year to year).

*Lectures, seminar, 3 hours per week.*

Prerequisite: LATI 2P02 or permission of the instructor.

#### LATI 4V11

2002-2003: Suetonius: Selections from the *Lives of the Twelve Caesars*

#### 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 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.

## Linguistics

*These course offerings are co-ordinated by the Department of Applied Language Studies.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

#### 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 1F91

##### Introduction to Language and Communication Disorders

Various contemporary theories of normal and abnormal language acquisition and learning. Topics include neurological, psychological, cultural and pathological factors. Attention to the development of strong academic reading and writing abilities.

*Lectures, seminar, 3 hours per week.*

Note: this course is of interest to students in education, behavioural and social sciences, to health professionals and to students intending to pursue subsequent professional training in speech-language pathology or audiology.

#### 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. Texts on language from Aristotle to the present.

*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 LING (single or combined) majors until date specified in BIRT 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 LING (single or combined) majors until date specified in BIRT guide.

Prerequisite: LING 1P00.

#### LING 1P95

##### Fundamentals of English Grammar

Introductory description of English grammar, with a focus on crucial structures liable to cause difficulties for both teachers and learners.

*Lectures, seminar, 3 hours per week.*

Note: designed to meet the English language requirement for the Pre-Service program of the Faculty of Education at Brock University. Foci selected for relevance to current or perspective teachers or teaching assistants, foreign language students, and others interested in the grammatical rules of spoken English.

Not open to students with credit in LING 2P61.

#### LING 1P96

##### Principles of Reading and Writing for Younger Learners

Concepts of reading and writing research

and practice applicable to teen and pre-teen learners, with a focus on issues relevant to Canada's multicultural educational environment.

*Lectures, seminar, 3 hours per week.*

Not open to students with credit in LING 4P83.

#### 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 and Morphology

Interaction between sound patterns and word structures. Focus on the analysis of data from a wide variety of languages.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94.

Note: LING 2P50 strongly recommended.

#### LING 2P61

##### Syntax

Syntactic analysis focussing on English. Basic concepts, categories, rules and principles and relevant analytic techniques. Selected frameworks influential in 20th-century linguistics.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94 or permission of the Chair.

#### LING 2P62

##### Semantics

Sense relations, word meaning, sentence meaning and utterance meaning. Consideration of semantic universals, feature analysis and logical representation of meaning.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94, or permission of the Chair.

Note: LING 2P61 strongly recommended.

#### LING 2P93

##### 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 neuro-genic disorders of language processing and production.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F91 or PSYC 1F90.

#### 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.*

Prerequisite: one of LING 1F94, FREN 1F90, GERM 1F90, ITAL 1F90, SPAN 1F90 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

#### LING 2P96

##### **Language Disorders in Children**

Theories and methods of assessment and intervention for language disorders in children and youth.

*Lectures, lab, 3 hours per week.*

Prerequisite: LING 2P98 or permission of the Chair.

#### LING 2P97

##### **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, seminar, 3 hours per week.*

Prerequisite: LING 1F91 or permission of the Chair.

#### LING 2P98

##### **Child Language Acquisition: Early Stages**

(also offered as CHYS 2P98 and PSYC 2P98)

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. The effect of interaction with care givers. Early bilingualism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F91 or PSYC 1F90 or permission of the Chair.

#### LING 2P99

##### **Child Language Acquisition: Late Stages**

(also offered as CHYS 2P99 and PSYC 2P99)

Later acquired aspects of language, especially syntactic, semantic and pragmatic. Development of ability to use linguistic ambiguity, humour. Reading and writing skills, registers. Abnormal language development.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 2P98 or permission of the Chair.

Students completing this course will forfeit credit in CHST 2P99.

#### 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.

Completion of this course will replace previous assigned grade in LING 2P51.

#### LING 3P92

##### **Sociolinguistics**

Language in its social context: bilingualism and linguistic variation; social factors which 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.

#### LING 3P93

##### **Gender and Language**

(also offered as WISE 3P93)

Survey of major debates concerning language, gender and power in the 20th century.

*Lectures, seminar, 3 hours per week.*

#### LING 3P94

##### **Pragmatics**

Language use examined through comparison of major theoretical frameworks and application of analytic techniques to relevant data. Topics include speech acts, conversational implicature, politeness, and deixis.

*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 3P96

##### **Applications of Linguistic Theory**

Linguistic theory and its application to language teaching, the study and treatment of communication disorders, and other domains. Topics include language a human ability, language as individual or a social phenomenon, innate or learned linguistic abilities, language and thought and psychological reality of theoretical concepts.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F94.

#### LING 3P98

##### **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 theory of speech breathing and phonation.

*Lectures, lab, 3 hours per week.*

Restriction: open to LING (single or combined) majors until date specified in BIRT guide.

Prerequisite: LING 1F91.

#### LING 3P99

##### **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 3P98.



## LINGUISTICS

### 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.*

### LING 3Q92

#### Methodology in Second Language Instruction

(also offered as PSYC 3Q92)

Approaches to teaching and learning and their influence on classroom methods. Overview of methods from the Greeks to the modern era.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 3Q91.

### 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 3V98

#### 2002-2003: Autism Spectrum Disorders

Historical perspectives, models of collaboration, neurodevelopmental issues, treatment methods, diagnostic criteria, assessment of communication and social skills, intervention strategies, play and behaviour, and sensory and motor issues.

Prerequisite: LING 1F91 or permission of the instructor.

### LING 4F01

#### Honours Thesis

Research project carried out with faculty supervision.

Restriction: open to LING (single or combined) 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 LING (single or combined) Communication Disorders stream majors with approval to year 4 (honours).

### LING 4P21

#### Clinical Observation of Communication Disorders

Directed observation in the evaluation and treatment of speech, language, hearing and/or swallowing disorders. Observation experience includes videotape analyses and visits to off-campus clinical observation sites.

*Lectures, seminar, 3 hours per week; clinical observations.*

Restriction: open to LING (single or combined) Communication Disorders stream majors with approval to year 4 (honours).

Note: clinical observation placements are normally arranged by the course instructor. Transportation to placement sites is a student responsibility. Proof of vaccination may be required.

### LING 4P30

#### Readings in Communication Disorders

Readings and directed discussions in diverse areas of speech-language pathology. Topics include cultural issues in communication disorders, phonological disorders, voice disorders, stuttering and other fluency disorders, hearing loss and neurogenic disorders.

*Seminar, 3 hours per week.*

Restriction: open to LING (single or combined) majors with approval to year 4 (honours).

### 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 LING (single or com-

bined) majors with approval to year 4 (honours) and TESL certificate students.

### 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 LING (single or combined) majors with approval to year 4 (honours) and TESL certificate students.

### LING 4P50

#### Topics in Sociolinguistics

Critical examination and application of current sociolinguistic theories. 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 LING (single or combined) majors with approval to year 4 (honours).

### LING 4P60

#### Structure of Oral Narrative

(also offered as CHYS 4P60)

Topics include functions of storytelling, structuring of narratives, characteristics of tellers, and the relationship between storytelling and social identity.

*Seminar, 3 hours per week.*

Restriction: open to CANA, CHYS (single or combined), LING (single or combined) and COMM (single or combined) majors until date specified in BIRT guide. Students must have approval to year 4 (honours).

Prerequisite: LING 1F94 or permission of the Chair.

### 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, 3 hours per week.*

Restriction: open to LING (single or combined) Teaching English as a Second Language stream majors with approval to year 4 (honours) and TESL certificate students.

bined) majors with a minimum 70 percent major average, approval to year 4 and permission of the Chair.

#### LING 4P82

##### **Listening and Speaking in a Second Language**

Theories of and issues in the development of oral language processing in a second or subsequent language. Implications and applications for selected teaching and learning situations.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LING (single or combined) majors with approval to year 4 (honours) and TESL certificate students. Prerequisite: LING 1F94.

#### LING 4P83

##### **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. Implications and applications for selected teaching and learning situations.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LING (single or combined) majors with approval to year 4 (honours) and TESL certificate students. Prerequisite: LING 1F94.

#### LING 4P84

##### **Materials and Curriculum Design**

Theoretical foundations, development and/or adaptation of second-language syllabi; planning, managing, and delivering second-language instruction. Includes materials assessment, needs analysis and practical classroom experience.

*Lectures, seminar, 3 hours per week.*

Restriction: open to LING (single or combined) Teaching English as a Second Language stream majors with approval to year 4 (honours) and TESL certificate students. Prerequisite: LING 1F94.

#### LING 4P99

##### **Honours Tutorial**

Individual topic, directed readings and/or research chosen in consultation with a faculty member who is willing to supervise the student.

Restriction: open to LING (single or com-

## Management

*These courses are offered by the Faculty of Business.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

#### MGMT 1P91

##### **Business and its Environment**

Multidimensional approach to business scenarios emphasizing political, economic, social, technological, legal and ethical issues for business decision making. Seminars emphasize problem solving, case analysis and time management.

*Lectures, seminar, 3 hours per week.*

Restriction: not open to BBA, BAcc and combined Business majors.

Completion of this course will replace previous assigned grade in MGMT 1P93 and 1P96.

#### MGMT 1P92

##### **Understanding Business**

Basic business decision-making areas including accounting, entrepreneurship, finance, human resources, international business, marketing and operations. Analyse business problems by using cases, within the constraints of functional areas. Operationalizing integrative concepts such as teamwork, whole employee, productivity, competition and quality.

*Lectures, seminar, 3 hours per week.*

Restriction: not open to BBA, BAcc and combined Business majors.

Prerequisite: MGMT 1P91 or permission of instructor.

Completion of this course will replace previous assigned grade in MGMT 1P93 and 1P96.

#### 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, seminars, 3 hours per week.*

Restriction: open to BBA, BAcc, BCB and combined Business majors.

Completion of this course will replace previous assigned grade in MGMT 1P91 and 1P92.

#### MGMT 1P96

##### **Business Analysis and Reporting**

Skill-based introduction to business problem solving. Structured case study analysis and direct interaction with business people for developing critical thinking, teamwork, professionalism, report writing and business presentations.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BAcc, BBA, BCB and combined Business majors.

#### MGMT 2P82

##### **Business Ethics**

(also offered as PHIL 2P82)

An 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 3P80

##### **Business Strategy I: Concepts and Theory**

Competitive strategy formulation based on industry analysis, internal integration and external differentiation.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA and combined Business majors with a minimum of 10.0 overall credits.

Prerequisites: FNCE 2P91, MKTG 2P91, OBHR 2P91 and OPER 2P91 (MGMT 3P30) or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in MGMT 3P81, 4P85, 4P86, 4P89 and 4F87.

#### MGMT 3P81

##### **Strategic Management**

The identification, development and implementation of organizational strategy.

*Seminar, case discussion, 3 hours per week.*

Restriction: not open to BBA, BAcc or combined Business majors.

Prerequisite: one credit from FNCE 2P51, MKTG 2P51, OBHR 2P51, OPER 2P51.

Completion of this course will replace previous assigned grade in MGMT 4F87, 4P85, 4P86 and 4P89.

#### MGMT 3P82

##### **Ethics in Business**

Philosophical ideas and ethical issues pertaining to business behavior, 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 shareholder environment 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 and BBA students.

Completion of this course will replace previous assigned grade in MGMT (PHIL) 2P82,

#### MGMT 3P98

##### **International Business**

The 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: students must have a minimum of 8.5 overall credits.

Prerequisites: ACTG 1P12 or 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 4P12

#### Accounting for Planning and Control II (also offered as ACTG 3P22)

Accounting information systems within the context of a management information system with emphasis on the design and implementation of systems and controls.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA, BBE, BCB and combined Business majors with a minimum of 12.5 overall credits; BAcc majors with a minimum of 5.0 overall credits.

Prerequisites: ACTG 1P12 or 2P12 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in ITIS 3P97.

MGMT 4P80

#### Business Strategy II: Analysis and Implementation

The development of coherent strategies and implementation plans based on competitive analysis.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA and combined Business majors with a minimum of 14.0 overall credits.

Prerequisites: FNCE 3P93, MKTG 3P24, OBHR 3P42, MGMT 3P80 and MGMT 3P98 or permission of the instructor.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in MGMT 3P81, 4F87, 4P85, 4P86 and 4P89.

MGMT 4P82

#### Global Quality Management

The role of quality in global business strategies. Topics include ISO 9000, quality improvement methods, writings of Deming, Juran and Crosby and quality techniques practised by countries such as Germany and Japan.

*Lectures, case discussion, 3 hours per week.*

Restriction: students must have a minimum of 12.5 overall credits.

Prerequisites: MKTG 3P24 and OBHR 3P42.

Note: enrolment limited to 40 students per section.

MGMT 4P89

**Business Strategy for Accounting Majors**  
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 majors with a minimum of 12.5 overall credits.

Prerequisites: FNCE 3P93, OPER 2P91 (MGMT 3P30) MKTG 2P91 and OBHR 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 3P81, 3P80, 4F87, 4P80, 4P85 and 4P86.

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 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 or 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 4P98

#### Family Business

Theories, research and current practices relating to family business management. Topics will 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 12.5 credits. Prerequisite: OBHR 2P91 or permission of the instructor.

Note: enrolment limited to 40 students per section.

## MANAGEMENT

Completion of this course will replace previous assigned grade in MGMT 4V98.

### 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 BIRT guide. Students must have a minimum of 13.5 overall credits.

### MGMT 4V93

#### **2002-2003: 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 BBA, BAcc, BBE, CSBC, BCB and combined Business majors with a minimum of 12.5 overall credits.

Note: enrolment limited to 40 students per section.

## Mandarin Chinese

*These course offerings are co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

#### MAND 1P00

##### Mandarin Chinese I

Elementary Mandarin with focus on conversational listening, basic grammatical structure, 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 with emphasis on 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. Emphasis on 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 structure. Focus on writing Chinese characters for practical text development.

*Lectures, lab, 4 hours per week.*

Prerequisite: MAND 1P80 or permission of the instructor.

# Marketing

*These courses are offered by the Faculty of Business.*

**Note that not all courses are offered in every session. Refer to the applicable term timetable for details.**

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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

### MKTG 2P51

#### Marketing Basics

An introduction to basics of marketing.  
*Lectures, 3 hours per week.*

Restriction: not open to BBA, BAAcc, BBE and combined Business majors. Open to CSBC and WKHL majors until date specified in BIRT guide.

Prerequisite: MGMT 1P92.

Note: designed for non-BBA students.

Completion of this course will replace previous assigned grade in MKTG 2P91.

### MKTG 2P52

#### General Marketing Management

Exploring the marketing management process.

*Lectures, 3 hours per week.*

Restriction: not open to BBA, BAAcc, BBE and combined Business majors. Open to CSBC majors until date specified in BIRT guide.

Prerequisite: MKTG 2P51.

Note: designed for non-BBA students.

Completion of this course will replace previous assigned grade in MKTG 2P91 and 3P24.

### 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 BBA, BAAcc, BBE, BCB and combined Business majors. In Fall Term open to BAAcc and BBA Co-op majors until date specified in BIRT guide.

Prerequisite: ACTG 1P91 and MGMT 1P96, or ACTG 2P12 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 BBA, BAAcc, BBE, BCB and combined Business majors. In Winter Term open to BBA Co-op majors until date specified in BIRT 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, until date specified in BIRT guide. After that date open to BBA, BAAcc, 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: a fieldwork assignment will be required. Enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in MKTG 4P22.

### 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 BIRT guide. After that date open to BBA, BAAcc, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 12.5 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 BIRT guide. After that date open to BBA, BAAcc, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24.

Note: enrolment limited to 40 students per section.

### MKTG 4P26

#### Sales Management

Management of the sales force and the role of the sales function in marketing strategy. Topics include the interface between sales strategy and marketing strategy; duties of the sales manager with respect to sales force selection, training, compensation and evaluation; time and territory management; sales forecasting; the impact of new technology on the sales management function; career paths in sales management.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the marketing concentration,

until date specified in BIRT guide. After that date open to BBA, BAcc, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24.

Note: enrolment limited to 40 students per section.

#### MKTG 4P27

##### Marketing and Society

The state of the consumer movement, marketing ethics and deceptive practices, truth and deception in advertising, government regulation, consumer protection, information and product safety. New developments and their implications for future marketing strategy.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the marketing concentration, until date specified in BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24 or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students per section.

#### MKTG 4P28

##### Retail Management

The managerial role and its effect on retailing decisions. The institutional structure of retailing and its past and probable future patterns. Marketing strategies and the 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 BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24.

Note: enrolment limited to 40 students per section.

#### MKTG 4P29

##### Industrial Marketing

The function of the marketer in the intermediate customer market. Demand, communications and delivery processes.

Emphasis on market identification, the role of personal communications and solving customer problems.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the marketing concentration, until date specified in BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24.

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 BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisites: MKTG 3P24 or MKTG 2P52 and COMM 3P65.

Note: enrolment limited to 40 students per section.

#### MKTG 4P33

##### International Marketing

The 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, until date specified in BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24.

Note: enrolment limited to 40 students per section.

#### MKTG 4P34

##### Marketing Financial Services

The application of marketing principles to financial services.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the marketing concentration, until date specified in BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined business majors. Students must have a minimum of 12.5 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 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.

Note: to be chosen in consultation with the supervising faculty member.

#### MKTG 4V90-4V99

##### Topics in Marketing

Courses in specialized areas within the discipline.

Restriction: open to BBA, BAcc, BBE and combined Business majors until date specified in BIRT guide. Students must have a minimum of 13.5 overall credits.

#### MKTG 4V92

##### 2002-2003: Wine Marketing (also offered as OEVI 4V92)

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.



## MARKETING

### MKTG 4V93

#### 2002-2003: 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 BIRT guide. After that date open to BBA, BAcc, BBE, CSBC, BCB and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: MKTG 3P24.

Note: enrolment limited to 40 students per section.

### MKTG 4V98

#### 2002-2003: 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 12.5 overall credits.

Prerequisite: MKTG 3P24 or 3P96 or permission of the instructor.

Note: enrolment limited to 40 students per section.

# Mathematics

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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, nonparametric 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, lab, 4 hours per week.*

Prerequisite: 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, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisites: two OAC mathematics credits including OAC calculus or permission of instructor.

Completion of this course will replace previous assigned grade in MATH 1P93.

### 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, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 1P01 (1P93).

Completion of this course will replace previous assigned grade in MATH 1P94.

### 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  $\mathbb{R}^2$  and  $\mathbb{R}^3$ : dot product and norm, cross product, the geometry of lines and planes in  $\mathbb{R}^3$ ; Euclidean n-space, linear transformations for  $\mathbb{R}^n$  to  $\mathbb{R}^m$ , eigenvalues and eigenvectors; selected applications and use of a computer algebra system.

*Lectures, 3 hours per week; lab, 1 hour per week.*

Prerequisites: two OAC mathematics credits or permission of instructor.

### MATH 1P40

#### Mathematics Integrated with Computers and Applications I

Exploration of ideas and problems in algebra differential equations and dynamical systems using computers. Topics include number theory, integers mod p, roots of equations, fractals, predator-prey models and the discrete logistic equation for popular growth.

*Lectures, 2 hours per week; lab, 3 hours per week.*

Prerequisites: MATH 1P01 (1P93), 1P12 and COSC 1P02.

### MATH 1P66

#### Mathematics for Computer Science I

Development, analysis and applications of algorithms in computation; elementary logic, proofs; graphs and trees.

*Lectures, tutorial, 4 hours per week.*

Prerequisite: one OAC mathematics credit.

Note: 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, tutorial, 4 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, lab, 5 hours per week.*

Prerequisite: grade 12 mathematics or permission of the department.

Note: designed for students in Biological Sciences, Biotechnology, Business, Earth Sciences, Economics, Geography and Health Sciences. Not open to students with credit in any university calculus course.

Completion of this course will replace previous assigned grade in MATH 1P01 and 1P93.

### 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, lab, 4 hours per week.*

Prerequisite: grade 12 mathematics.

Note: designed for students in Biological Sciences, Biotechnology, Business, Earth Sciences, Economics, Geography and Health Sciences. Not open to students with credit in any university statistics course.

## MATHEMATICS

### 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 (1P94).

Completion of this course will replace previous assigned grade in MATH 2F00, 2F95 and 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, 2 hours per week; lab, 3 hours per week.*

Prerequisites: MATH 1P02 (1P94) 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 (1P94).

Completion of this course will replace previous assigned grade in MATH 2F00.

### 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.

Completion of this course will replace previous assigned grade in MATH 2F00.

### 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 (1P94) and 1P12.

Completion of this course will replace previous assigned grade in MATH 2F00 and 2F95.

### 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, 1 hour per week.*

Prerequisite: MATH 1P12.

Completion of this course will replace previous assigned grade in MATH 2F10.

### 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.

Completion of this course will replace previous assigned grade in MATH 2F10.

### 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 Preservice 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.

Completion of this course will replace previous assigned grade in MATH 2P02.

### 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, tutorial, 1 hour per week.*

Prerequisites: two OAC mathematics credits.

Completion of this course will replace previous assigned grade in MATH 1P90 and 2P01.

### 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 2P03 (2F00) or 2F05 (2F95).

Note: MATH 2P03 or 2F05 may be taken concurrently.

Completion of this course will replace previous assigned grade in MATH 2F96.

**MATH 2P82**

**Mathematical Statistics**

Random sample from a distribution, sample mean and variance. Sampling from normal population, chi-square, and distributions. Sample median and order statistics, descriptive statistics. Estimating parameters, unbiased estimators, the concept of consistency, efficiency and robustness. Point and interval estimation of population parameters. Hypothesis testing, type I and II errors, power function, 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.

Completion of this course will replace previous assigned grade in MATH 2F96.

**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, tutorial, 4 hours per week.*

Prerequisite: one MATH credit.

Completion of this course will replace previous assigned grade in MATH 2F94 and 2P50.

**MATH 2P93**

**Great Moments in Mathematics I**

Triumphs in mathematical thinking with emphasis on 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 2F92 and 2P51.

**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, 2 hours per week; computer lab, 3 hours per week.*

Prerequisites: MATH 2P03 (2F00), 2P40 and 2P82 (2F96).

Corequisite: 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, 4 hours 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.

*Lectures, 3 hours per week; tutorial, 1 hour per week.*

Prerequisite: MATH 2P04 (2F00).

Completion of this course will replace previous assigned grade in MATH 3F00.

**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.*

Prerequisites: MATH 2P03 (2F00) or MATH 2F05 (2F95).

Completion of this course will replace previous assigned grade in MATH 3F00.

**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

## MATHEMATICS

on applications to physical sciences.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2F05 (2F95) or 2P08.

Completion of this course will replace previous assigned grade in MATH 3F94.

### 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.*

Prerequisites: MATH 2F05 (2F95) or 2P08.

Completion of this course will replace previous assigned grade in MATH 3F94.

### 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.

Completion of this course will replace previous assigned grade in MATH 3F10 and 3F92.

### MATH 3P13

#### Abstract Algebra

Further topics in group theory: normal subgroups and factor groups, homomorphisms and isomorphism theorems, structure of finite abelian groups. Rings and ideals; polynomial rings; quotient rings. Division rings and fields; field extensions; finite fields; constructibility.

*Lectures, 3 hours per week; lab/tutorial 1 hour per week.*

Prerequisite: MATH 3P12.

Completion of this course will replace previous assigned grade in MATH 3F10.

### 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 (1P94) 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 2P03 (2F00); MATH 2P60 or 2P72.

### 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: one of MATH 2P72 (2P60), ECON 3P91.

Completion of this course will replace previous assigned grade in MATH (ECON) 4P59.

### MATH 3P75

#### Theory of Financial Mathematics

Probability, Brownian motion, martingales, Markov processes, differential equations, finite difference and tree models used in financial mathematics of op-

tions; 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, 2F03 and 2P82.

### MATH 3P81

#### Experimental Design

Analysis of variance; single-factor experiments; randomized block designs; Latin squares designs; factorial designs;  $2^f$  and  $3^f$  factorial experiments; fixed, random and mixed models; nested and nested-factorial experiments; Taguchi experiments; split-plot and confounded in blocks factorial designs; factorial replication; regression models; computational techniques and computer packages, related topics.

*Lectures, 3 hours per week; lab, 1 hour per week.*

Prerequisite: MATH 2P82 (2F96).

Completion of this course will replace previous assigned grade in MATH 3P95.

### MATH 3P82

#### Regression Analysis

Simple and multiple linear regression and correlation, measures of model adequacy, residual analysis, weighted least squares, polynomial regression, indicator variables, variable selection and model building, multicollinearity, time series, selected topics.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 2P82 (2F96).

Completion of this course will replace previous assigned grade in MATH 4P22.

### MATH 3P90

#### Euclidean and NonEuclidean Geometry II

Topics in Euclidean and non-Euclidean geometry chosen from the classification of isometries in selected geometries, projective geometry, finite geometries and axiomatic systems for plane Euclidean geometry.

*Lectures, 4 hours per week.*

Prerequisites: MATH 1P12 and 2P90 (2P50).

Completion of this course will replace previous assigned grade in MATH 2F94 and 3P50.

**MATH 3P91**

**Mathematics at the Junior/Intermediate Level**

A treatment of mathematics and its teaching and learning issues at the junior and intermediate levels. A major portion of the course will involve directed projects.

*Lectures, seminar, 4 hours per week.*

Restriction: open to BSc/BEEd majors with a minimum of 9.0 overall credits.

Note: designed for students in the concurrent Mathematics and Education program.

**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 (1P94) and 1P12.

Completion of this course will replace previous assigned grade in MATH 2F92 and 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 (2F00); MATH 2P12 and 2P13 (2F10) or MATH 3P12 and 3P13 (3F10).

**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 4F08**

**Topics in Differential Equations**

Topics vary from year to year. Ordinary differential equations: existence and

uniqueness theory, strange attractors, chaos, singularities. Partial differential equations: existence and uniqueness theory, Cauchy-Kovalevski theorem, weak solutions, nonlinear equations and global solutions, waves and solitons, integrable systems.

*Lectures, 3 hours per week; lab/tutorial, 1 hour per week.*

Prerequisite: MATH 3P08 and 3P09 (3F94).

Completion of this course will replace previous assigned grade in MATH 4F52.

**MATH 4F10**

**Topics in Algebra**

A treatment of several advanced topics drawn from group theory, theory of rings and modules, Galois theory, lattice theory, homological algebra and applications of algebra in geometry.

*Lectures, 4 hours per week.*

Prerequisite: MATH 3P13 (3F10).

**MATH 4F83**

**Topics in Advanced Statistics**

Topics may include stochastic processes, game theory, decision theory, multivariate analysis, time series analysis, Bayesian statistics and statistical inference.

*Lectures, 4 hours per week.*

Restriction: permission of the department.

**MATH 4F90**

**Honours Project**

A small 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 4F91**

**Advanced Topics**

Topics vary from year to year. Topics may include number theory, problems in real or complex analysis, sumability theory, differential geometry; differentiable

manifolds, algebraic topology, approximation theory, dynamical systems, foundations of mathematics.

*Seminar, 4 hours per week.*

Restriction: permission of the department.

Completion of this course will replace previous assigned grade in MATH 4F16.

**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 (3F00).

Completion of this course will replace previous assigned grade in MATH 4F02.

**MATH 4P04**

**Advanced Complex Analysis**

Proof of Cauchy's integral theorem, maximum-modulus principle, conformal mapping; Riemann's mapping theorem. Topics selected from: zeros of holomorphic functions, analytic continuation and asymptotic expansions.

*Lectures, 3 hours per week; tutorial, 1 hour per week.*

Prerequisite: MATH 3P04 (3F00).

Completion of this course will replace previous assigned grade in MATH 4F02.

**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 (single or combined) COSC majors.

Prerequisite: MATH 1P67.

Note: MATH students may take this course with permission of department.

Completion of this course will replace previous assigned grade in MATH 4P19.

## MATHEMATICS

### 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 2F10.

Completion of this course will replace previous assigned grade in MATH 4P20.

### 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 (2F96).

Completion of this course will replace previous assigned grade in MATH 3P96.

### 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 (2F96).

Completion of this course will replace previous assigned grade in MATH 4P23.

## Modern Languages, Literatures and Cultures

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

#### 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.*

Prerequisite: one of FREN 1F90, GERM 1F90, ITAL 1F90, SPAN 1F90 or LING 1F94 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, Italian or Spanish.

#### MLLC 3F96

##### Landscape and Cultural Memory

(also offered as CANA 3F96 and GEOG 3F96)

Field course in Quebec. Readings in literature and geography, exploring the links and reciprocal influences between disciplines. Authors studied may include Louis Hémon, Philippe Aubert de Gaspé, Roger Lemelin.

Restriction: consult the Chair regarding permission to register.

Prerequisites: FREN 2F03, CANA 2F91 or permission of the instructor.

Note: course given in English. French majors complete written assignments and exams in French. CANA students may count this as either Cultural Studies I or II and as a credit related to French Canada.

#### MLLC 3P90

##### Romance Linguistics

Linguistic theories, methods and problems as applied to French, Italian and Spanish. Phonetic structure, morphology, syntax and semantics.

*Lectures, 3 hours per week.*

Prerequisite: one of FREN 2F00, GERM 2F20, ITAL 2F00, SPAN 2F00.

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, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F20, ITAL 2F00, SPAN 2F00 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 2F20, ITAL 2F00, SPAN 2F00 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, German, Italian or Spanish.

#### MLLC 3P97

##### Medieval Literature and Culture

(also offered as GBLS 3P97)

Literature and culture of the Middle Ages in Europe. Works selected from among poetry, the epic and the romance.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F90 (2F20), ITAL 2F00, SPAN 2F00 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, German, Italian or Spanish.

Completion of this course will replace previous assigned grade in MLLC 3P91.

#### MLLC 3P98

##### Renaissance Literature and Culture (also offered as GBLS 3P98)

The Renaissance as transcultural phenomenon; historical and geographical parameters; social and political factors in its emergence and development; intellectual and aesthetic foundations as expressed in essential literary texts and essays.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of FREN 2F03, GERM 2F90 (2F20), ITAL 2F00, SPAN 2F00 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, German, Italian or Spanish.

Completion of this course will replace previous assigned grade in MLLC 3P92.

#### 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 (2F20), ITAL 2F00, SPAN 2F00 or permission of the instructor.

Note: given in English. May be counted as part of a major program in French, German, Italian or Spanish.

Completion of this course will replace previous assigned grade in MLLC 3P93.

#### MLLC 4P01

##### History of Romance Languages

Formation and evolution of the Romance languages from their origins to the present day. Factors affecting language change: internal history (sounds and inflection) and external forces (politics, society, thought).

*Lectures, 3 hours per week.*

Prerequisites: MLLC 2P94; one of FREN 2F00, ITAL 2F00, SPAN 2F00.

Note: given in English. May be counted as part of a major program in French, Italian and Spanish.



# Music

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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 MUSI majors.

### 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

#### Materials of Music 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; 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. Attendance at Music department concert series is required.

### MUSI 1P11

#### Listening to Music I

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 18th century.

*Lectures, 3 hours per week.*

Note: major credit will not be granted to Music majors. Attendance at Music department concert series.

### MUSI 1P12

#### Listening to Music II

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 18th- to the 20th- century.

*Lectures, 3 hours per week.*

Note: major credit will not be granted to Music majors. Attendance at Music department concert series.

### 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, 1 hour per week for two terms; auditing performance seminar, 2 hours per week for two terms.*

Restriction: permission of the depart-

ment. See Entrance Requirements for Music Majors.

Note: basic performance skills and solo audition required. Lesson fee. Attendance at Music department 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 dress rehearsals and concert performances as required.*

Restriction: permission of the instructor (audition) required; consult the department.

Note: participation in one of the following two ensembles: 1) mixed chorale; 2) women's chorus is required. Pitch matching skills required; sight singing skills strongly recommended. Concert uniform 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.

### 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 1Y01

**Aural Proficiency**

Introduction to aural perception of melody, intervals, chords, tonality, meter and rhythm through sight singing, dictation and recognition exercises.

*Labs, 2 hours per week for two terms.*

Note: completion of theory and aural placement tests required. Major credit will not be granted to music majors.

## MUSI 1Y02

**Keyboard Proficiency**

Introduction to the piano for those with no previous background or training. Individual instruction in basic playing techniques.

*Individual instruction, 0.5 hour per week for two terms; auditing piano performance seminar, minimum 3 hours per term.*

Note: completion of a keyboard placement test required. Major credit will not be granted to music majors. Lesson fee; consult the department.

## 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

**Materials of Music II**

Eighteenth-century counterpoint; writing of short binary and ternary compositions; three-part fugal expositions; chromatic harmony up to enharmonic modulation; form and analysis; 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. Attendance at Music department concert series is required.

## MUSI 2M90-2M99

**Special Topics**

Selected topic 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, including lieder, chamber music and/or large ensembles.

*Seminar, 1 hour alternating weeks for two terms; supervised rehearsals and performances, minimum 1 hour per week.*

Prerequisites: MUSI 1F92 and 1P83.

## 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 2P51

**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.*

Prerequisites: MUSI 1F50 and 1F90 or permission of the instructor.

## MUSI 2P52

**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.*

Prerequisites: MUSI 1F90 and 2P51 or permission of the instructor.

## MUSI 2P53

**History of Music in Canada**

Canadian music and its place in our culture from the earliest European influences in the works of modern Canadian composers, through analysis of selected com-

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positions and an exploration of Canadian music-related industries.

*Lectures, 3 hours per week.*

Prerequisites: MUSI 1F50 or permission of the instructor.

Completion of this course will replace previous assigned grade in MUSI 2P11.

### MUSI 2P60

#### Composition and Orchestration I

Guided composition in one and two parts with analysis of selected works; notational systems; instrumentation and arranging for small combinations of instruments and voices; use of music notation and sequencing software.

*Lectures, 2 hours per week for two terms.*

Prerequisite: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

### MUSI 2P70

#### Politics and Popular Music

(also offered as COMM 2P70, PCUL 2P70 and POLI 2P70)

Political context and content of popular music. Topics may include theoretical perspectives on popular culture/popular music; the relationship of popular music to public policy, race and gender, popular movements and political identity; political economy of the music business.

*Lectures, seminar, 3 hours per week.*

Note: major credit will not be granted to MUSI majors.

### MUSI 2P81

#### Instrumental or Vocal Study II

Continuation of individual instrumental or vocal study.

*Private instruction, 1 hour per week for two terms; auditing performance seminar, 2 hours per week for two terms.*

Prerequisite: MUSI 1P81 or 1F92.

Note: lesson fee; consult the department. Attendance at Music department 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 dress rehearsals and concert performances as required.*

Restriction: permission of the instructor (audition) required; consult the department.

Prerequisite: MUSI 1P83.

Note: participation in one of the following two ensembles: 1) mixed chorale; 2) women's chorus is required. Basic sight singing skills and concert uniform 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 and Score reading I

Introduction to historical, theoretical and practical aspects of choral and instrumental conducting. Topics include basic patterns, baton techniques, notational terminology and instrumental transpositions.

*Lectures, 3 hours per week; field assignments as required.*

Prerequisites: Royal Conservatory Grade II rudiments or equivalent or permission of the instructor.

Co-requisites: MUSI 1F90 and 1P83 or 1P84.

### 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 proce-

dures, 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 2P95

#### Conducting and Score reading II

Intermediate conducting techniques for choral and instrumental ensembles. Topics include asymmetrical patterns, lefthand techniques, meter and tempo changes.

*Lectures, 3 hours per week; field assignments as required.*

Prerequisites: MUSI 1F90 and 2P93 or permission of the instructor.

Co-requisite: MUSI 2P83 or 2P84.

### MUSI 2P98

#### Computers in Music I

Introduction to computer music applications, including software for score writing.

*Lectures, 3 hours per week.*

Prerequisites: MUSI 1F50 and 1F90 or permission of the instructor.

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.*

Prerequisite: MUSI 2P98.

### MUSI 2Y05

#### Aural Skills I

Aural perception of diatonic musical materials, simple and compound meters, rhythm and elementary chromaticism through sight singing, dictation and recognition exercises.

*Lectures, 2 hours per week for two terms.*

Prerequisite: MUSI 1Y01 or permission of the instructor.

Co-requisites: MUSI 1F90 and 2Y06.

Note: successful completion of an aural placement test may be used to satisfy the course prerequisite.

### MUSI 2Y06

#### Keyboard Harmony I

Introduction to figured bass, melodic harmonization, harmonic progressions and Score reading.

*Lectures, tutorial, 1 hour per 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 seminars, 2 hours per week; required participation in student recitals; one solo recital (approx. 20 minutes).*

Restriction: permission of the department.

Prerequisite: MUSI 2F92.

Note: a minimum grade of 75 percent in MUSI 2F92 is required. Lesson fee may be required. Attendance at Music department 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, including lieder, chamber music and/or large ensembles.

*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.

#### MUSI 3P60

##### Composition and Orchestration II

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.

*Lectures, 2 hours per week for two terms.*

Prerequisites: MUSI 1F90 and 2P60 or permission of the instructor.

#### MUSI 3P81

##### Instrumental or Vocal Study III

Continuation of individual instrumental or vocal study.

*Private instruction, 1 hour per week; auditing performance seminar 2 hours per week.*

Prerequisite: MUSI 2F92 or 2P81.

Note: lesson fee. Attendance at Music department 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 dress rehearsals and concert performances as required.*

Restriction: permission of the instructor (audition) required; consult the department.

Prerequisite: MUSI 2P83.

Note: participation in one of the following two ensembles: 1) mixed chorale; 2) women's chorus is required. Intermediate sight singing skills and concert uniform required.

#### MUSI 3P84

##### Wind Ensemble III

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 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 3P94

##### Choral Methods II

Theory and practice of directing youth and adult choirs. Topics include advanced rehearsal procedures, performance practices, score preparation and

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analysis.

*Lectures, 3 hours per week; field assignments as required.*

Prerequisites: MUSI 2P83, 2P94 and 2P95.

Co-requisite: MUSI 3P83 or 4P83.

### MUSI 3P95

#### Aesthetics of Music

(also offered as GBL 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 or GBL 2F90 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.*

Prerequisites: MUSI 1F50 and 1F90 or permission of the instructor.

### 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.*

Prerequisites: MUSI 1F50 and 1F90 or permission of the instructor.

### 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.  
*Lectures, individual tutorial, 1 hour per week for two terms.*

Restriction: open to MUSI (single or combined) majors.

Prerequisite: MUSI 2Y06.

Co-requisite: 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 4F00

#### Work Study Practicum

Supervised research based activities and assignments in a music related field (e.g., administration, liturgical music, arranging or composition, music criticism, solo or ensemble performance, private or class teaching).

Restriction: year 3 honours standing and permission of the department.

Note: to be chosen in consultation with a faculty member willing to supervise that study. Students must complete a departmental application form by the end of April (see departmental guidelines).

### 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.

Note: a minimum grade of 80 percent in MUSI 3F92 is required. Lesson fee may be required. Attendance at Music department 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 ap-

proved 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.*

Prerequisites: MUSI 1F50 and 1F90 or permission of the instructor.

### 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.*

Prerequisite: MUSI 1F50 and 1F90 or permission of the instructor.

### MUSI 4P52

#### Eighteenth-Century Italian Opera

Detailed study of opera seria, opera buffa and the *dramma giocoso* from the works of Handel to Mozart.

*Lectures, 3 hours per week.*

Prerequisites: MUSI 1F50, 2P51 and 3P96 or permission of the instructor.

### 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.*

Prerequisites: MUSI 1F50 and one credit from MUSI 2P51, 2P52, 3P96, 3P97, 4P50, 4P51, 4P52 or 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.*

Prerequisites: MUSI 1F50, 2P51 and 2P52 or permission of the instructor.

### MUSI 4P55

#### History of Music and Liturgy to 1600

Relationship of music and liturgy in

Christian sacred music, from the Middle Ages to the end of the Renaissance.

*Lectures, 3 hours per week.*

Prerequisites: MUSI 4P50 and 4P51 or permission of the instructor.

#### 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.

*Lectures, 2 hours per week for two terms.*

Prerequisites: MUSI 2F90 and 3P60 or permission of the instructor.

#### MUSI 4P81

##### **Instrumental or Vocal Study IV**

Continuation of individual instrumental or vocal study.

*Private instruction, 1 hour per week; auditing performance seminar, 1-2 hours per week.*

Prerequisite: MUSI 3P81 or 3F92.

Note: lesson fee. Attendance at Music department 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 dress rehearsals and concert performances as required.*

Restriction: permission of the instructor (audition) required; consult the department.

Prerequisite: MUSI 3P83.

Note: participation in one of the following two ensembles; 1) mixed chorale; 2) women's chorus is required. Advanced sight singing skills and concert uniform 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 advanced contemporary or historical theoretical monographs.

Restriction: approval to year 4 (honours) and permission of the instructor.

Note: to be chosen in consultation with the instructor. Major piece of written work will be 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 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

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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 behaviours; the functional activities of the neuron and the interrelationships among neural systems (brain organization). Topics include the psychobiology of sensory and motivational systems, emotion and affect, learning, memory, language and consciousness.

*Lectures, 2 hours per week, lab, 3 hours alternating weeks.*

Restriction: open to NEUR, CHSC, HLSC and PSYC (single or combined) majors with a minimum 67 percent major average until date specified in BIRT guide. Prerequisite: PSYC 1F90.

### NEUR 3F91

#### Neuroscience (also offered as PSYC 3F91)

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. A general insight into a number of classical disciplines including neuroanatomy, neurophysiology, neuropharmacology, electrophysiology, neurochemistry.

*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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0

overall credits above PSYC 1F90.

Prerequisite: NEUR 2F36 or permission of the instructor.

### NEUR 3P34

#### Neurobiology

(also offered as BIOL 3P34)

Nervous systems from the single neuron level to integrated function in the brain. Topics include sensory systems, synaptic function and transmitters substances, developmental aspects and neural plasticity, cellular basis of behaviour.

*Lectures, 3 hours per week; one lab, 3 hours.*

Restriction: students must have a minimum of 8.0 overall credits.

Prerequisite: BIOL 2F01.

### NEUR 3P84

#### Investigative Neurobiology

(also offered as BIOL 3P84)

Methods used in neurobiology and neurophysiology. Emphasis on electrophysiological techniques, including intracellular recording from nerve cells and muscle, and on theory and techniques for electrophysiological data acquisition. Other topics include intracellular staining, immunocyto-chemistry 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.

### NEUR 3P97

#### Bases of Neuropsychopharmacology

(also offered as PSYC 3P97)

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. Emphasis on mechanisms and consequences of drug action on selected neurotransmitter systems (dopaminergic, cholinergic, sero-tonergic).

*Lectures, seminar, 3 hours per week.*

Restriction: open to NEUR, CHSC, HLSC and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0

overall credits and 1.0 PSYC credit above PSYC 1F90.

### NEUR 3P98

#### Introduction to Human Neuropsychology (also offered as PSYC 3P98)

Focus on clinical syndromes that result from brain damage. Topics include disorders of memory, language, attention and problem solving.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NEUR, CHSC, HLSC, PSYC (single or combined) and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits and 1.0 PSYC credit above PSYC 1F90.

### NEUR 4F90

#### Honours Thesis

Each student will undertake a limited research project under faculty supervision. Restriction: open to NEUR majors with approval to year 4 (honours).

Note: to be taken in conjunction with NEUR 4F91. Submission and oral defence of thesis is required.

### NEUR 4F91

#### Literature Research and Seminar

Each student will undertake a detailed study of the scientific literature relevant to the topic of the honours thesis.

Restriction: open to NEUR majors with approval to year 4 (honours).

Note: to be taken in conjunction with NEUR 4F90. The review will be included in the thesis and will be presented as a seminar.

### NEUR 4F92

#### Library Research Essays

Each student will be required to carry out two detailed studies of the scientific literature under faculty supervision.

Restriction: open to NEUR majors with approval to year 4 (honours).

Note: for students not registered for NEUR 4F90 and 4F91. The results of the studies will be presented in major essays and presented as formal seminars. One research topic is to be completed each term.

### NEUR 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 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*.

## CO-OP COURSES

NEUR 0N00

### Work Placement

Optional Co-op work placement (4 months) with an approved employer.

Restriction: open to NEUR Co-op students.

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.



# Nursing

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

### NUSC 3F90 Nursing Practice IV

Practice experience related to families in which one or more members are experiencing health challenges related to chronic illness. Practice settings include inpatient care areas, clients' homes, and supportive community agencies.

Restriction: open to NUSC majors.

### NUSC 3P10 Theoretical Foundations of Nursing

Nursing models and selected interdisciplinary theories. Examines underlying foundations, principles, and concepts as frameworks for practice. Development of critical thinking and analysis of nursing models.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

### NUSC 3P12 Nursing Theory IV

Nursing models and selected interdisciplinary theories, underlying foundations, principles and concepts as frameworks for practice, focussing on the concepts related to chronicity and selected chronic illnesses.

Restriction: open to NUSC majors.

### NUSC 3P14 Nursing Theory V

Nursing models and selected interdisciplinary theories, underlying foundations, principles and concepts as frameworks for practice, focussing on the concepts related to chronicity and mental health issues.

Restriction: open to NUSC majors.

### NUSC 3P19 Introduction to Pharmacology

(also offered as CHSC 3P19)  
Drug absorption, distribution, biotransformation, clearance and mechanisms of action. Antibiotics, nervous, cardiovascular and endocrine system drugs. Drug development and regulations.

*Lectures, 3 hours per week.*

Restriction: open to NUSC, CHSC, CHLH, HLSC and WKHL majors.

### NUSC 3P20 Nursing Ethics

Ethical and legal principles relevant to nursing practice. Application of ethical principles, models and theories to professional practice.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

### NUSC 3P92 Nursing Practice V

Practice experience related to families in which one or more members are experiencing health challenges related to problems with coping or mental health issues. Practice settings include inpatient care areas, clients' homes and community agencies.

Restriction: open to NUSC majors.

### 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.

Restriction: open to NUSC majors.

Prerequisite: NUSC 3P10.

Note: students must register with the Nursing Clinical Administrator one term prior to the commencement of the clinical course. Transportation to placement is the student's responsibility. Failure to succeed after two attempts will result in dismissal from the program.

### NUSC 4F92 Nursing Practice VI

Practice, application and integration of skills and theory in a variety of health care settings.

Restriction: open to NUSC majors.

### NUSC 4F94 Nursing Practice VII

Further practice, application and integration of skills and theory in a variety of health care settings.

Restriction: open to NUSC majors.

### 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 Advanced Adult Clinical Assessment

Knowledge, skills, and attitudes required to perform an holistic health assessment focussing on the older adult. Health promotion, theoretical concepts and principles of nursing practice applied to the assessment process.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

### NUSC 4P40 Advanced Pediatric Assessment

Knowledge, skills and attitudes required to perform an holistic health assessment focussing on the pediatric client and family using a philosophy of family-centered care. Health promotion, theoretical concepts and principles of nursing practice applied to the assessment process.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

### NUSC 4P50 Community Health Nursing

Nursing role within the community with an emphasis on health promotion in the changing nursing practice environment.

Restriction: open to NUSC majors.

### NUSC 4P60 Trends and Issues In Professional Nursing

Topics include the allocation of resources and the delivery of health care services.

Restriction: open to NUSC majors.

## NUSC 4P70

**Nursing Research**

Critical appraisal of nursing research to determine the evidence base for practice.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

## NUSC 4P80

**Leadership in Nursing and Management II**

Current issues, concepts and approaches in nursing leadership and management in the context of changing health care management and delivery systems.

*Lectures, seminar, 3 hours per week.*

Restriction: open to NUSC majors.

Prerequisite: NUSC 4P20.

# Oenology and Viticulture

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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

Scientific principles of wine production, grape production, microbiology, fermentation, stabilization of wine and the application of sensory science to the evaluation of wine quality as well as health aspects, classification, regulation, marketing of wine and wines of the world. *Lectures, 2 hours per week; lab, 3 hours per week.*

Note: materials fee required. Students must be of legal drinking 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, 3 hours per week; lab, 3 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 of legal drinking 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 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: CHEM 1F92 (CHEM 1P80 and 1P81 or CHEM 1P90 and 1P91) and BIOL 1F90.

Note: students must be of legal drinking 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. Emphasis on wine regions of Ontario and British Columbia. Effects of climate, weather-related diseases, topography, soil and viticultural practices on winegrape quality.

*Lectures, lab, field work, 4 hours per week.*

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

#### Winery Equipment

Theory and operation of grape and wine processing equipment in commercial wineries, including crushers, presses, filters, pumps, tanks; winery layout; sanitation and waste water management.

*Lectures, 3 hours per week; lab, 3 hours per week.*

Restriction: open to OEVI majors and OEVI certificate students or permission of the instructor.

Prerequisites: CHEM 1F92 (CHEM 1P80 and 1P81 or CHEM 1P90 and 1P91); and PHYS 1P10. Note: materials fee required. The laboratory section will include fermentations to demonstrate the equipment being used. Students must be of legal drinking age.

Completion of this course will replace previous assigned grade credit in OEVI 2P21.

### OEVI 3P25

#### Wine Chemistry

Chemical reactions in fermentation, sulfiting, fining, casse formation and removal, ageing and wine supple-

mentation. The laboratory section will include sampling grapes, fermentation chemical analysis and evaluation of wine. *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: CHEM 2P20 and 2P42.

Note: materials fee required. Students must be of legal drinking age.

Completion of this course will replace previous assigned grade credit in OEVI 2P25.

### OEVI 3P50

#### Geological Foundations of Wine Terroirs

(also offered as ERSC 3P50)

Influence of bedrock, unconsolidated sediments and groundwater in glaciated, temperate and semi-desert terroirs. Field examination of Niagara appellation vineyards and the geological environs of the sub-appellations.

*Lectures, 6 hours per week.*

Prerequisite: ERSC 2P05 or permission of the instructor.

### OEVI 3P98

#### Wine Microbiology

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, 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 2F01 and 2P98.

Co-requisite: BIOL 3P50

Note: students must be of legal drinking age.

### OEVI 4F90

#### Research Project

Experimental research carried out under faculty supervision.

Restriction: open to OEVI majors with approval to year 4 (honours).

Co-requisite: OEVI 4F91.

OEVI 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 OEVI majors with approval to year 4 (honours).

Co-requisite: 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-odors 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 of legal drinking age.

OEVI 4P30

**Grape Pest Management**

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 majors and OEVI certificate students or permission of the instructor.

Prerequisite: OEVI 2P99.

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.

OEVI 4V92

**Wine Marketing**

(also offered as MKTG 4V92)

Application of the principles of marketing in the wine business; 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.

**CO-OP INTERNSHIP**

OEVI 0N01

**Wine Appreciation I**

Special interest course focussed on the tasting of wines from Canada and around the world.

Restriction: permission of the Co-ordinator of Experiential Learning.

Note: materials fee required. Students must be of legal drinking 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**

Special interest course focussed on the tasting of wines from Ontario.

Restriction: permission of the Co-ordinator of Experiential Learning.

Note: materials fee required. Students must be of legal drinking 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.

OEVI 0N03

**Wine Appreciation II**

Special interest course focussed on the practice and art of winetasting.

Prerequisite: OEVI 0N01 or permission of the Instructor.

Note: materials fee required. Students must be of legal drinking 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.

OEVI 0N10

**Intern Experience -Viticulture**

Participation largely in a vineyard setting.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

OEVI 0N11

**Intern Experience - Oenology**

Participation concentrating on some aspect of the wine making process.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register.

OEVI 0N12

**Intern Experience -Tourism and Marketing**

Participation 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.

OEVI 0N13

**Intern Experience - Industry Preparation**

Participation requiring the successful completion of an approved program of industry workshops and short courses.

Restriction: open to OEVI majors. Consult the Co-ordinator of Experiential Learning regarding permission to register. Note: any fees charged for this activity are the responsibility of the student.

OEVI 0N14

**Intern Experience - 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.

## OENOLOGY AND VITICULTURE

### OEVI 0N15

#### **Intern Experience - 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

#### **Intern Experience - 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.

### OEVI 0N30

#### **Co-op Work Term**

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 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 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 and interview skills preparation.

*Lectures, presentation, site visits, 1.5 hours per week.*

Restriction: open to OEVI majors.

# Operations Management

*These courses are offered by the Faculty of Business.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### 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 BBA, BAcc or combined Business majors.

Prerequisites: ACTG 1P91 and MGMT 1P92.

Completion of this course will replace previous assigned grade in MGMT 2P30, 3P30, 3P39 and OPER 2P91.

### OPER 2P91

#### Introduction to Operations Management

Concepts and techniques used in managing the operations function in the manufacturing and service sectors for both profit and not-for-profit organizations. Topics may include, but are not restricted to, managerial implications of several types of processes, capacity planning and facility location, product and process design, aggregate planning, inventory management, scheduling, productivity and quality management. Capital budgeting, simulation and decision analysis models, including linear programming and other management science tools.

*Lectures, case discussion, computer applications, 3 hours per week.*

Restriction: open to BAcc, BBA, BBE,

BCB and combined Business majors with a minimum of 5.0 overall credits. In the Fall Term open to BAcc and in the Winter Term open to BBA co-op majors until date specified in BIRT guide.

Prerequisites: ACTG 1P12 or ACTG 2P12 and ECON 2P91.

Completion of this course will replace previous assigned grade in MGMT 2P30, 3P30 and OPER 2P51.

### OPER 3P31

#### Operations Management

Long-term aspects of managing the operations function in the manufacturing and service sectors for both profit and not-for-profit organizations. Topics include aggregate planning and scheduling, quality control, facilities planning, technology planning and operations strategy.

*Lectures, case discussion, 3 hours per week.*

Prerequisite: OPER 2P91 (MGMT 3P30).

Completion of this course will replace previous assigned grade in MGMT 3P31.

# Organizational Behaviour and Human Resources

*These courses are offered by the Faculty of Business.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

### OBHR 2P51 Fundamentals of Organizations

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: not open to BBA, BAcc, CSBC and combined Business majors.

Prerequisite: MGMT 1P92.

Note: designed for non- BBA students.

Completion of this course will replace previous assigned grade in OBHR 2P91 and 3P42.

### 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 BBA, BAcc, BBE, BCB, CSBC, WKHL and combined Business majors. In Fall Term open to BAcc and BBA Co-op majors until date speci-

fied in BIRT guide.

Prerequisite: one of ACTG 1P12, MGMT 1P92, 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 BBA, BAcc, BBE, BCB, CSBC, WKHL and combined Business majors. In the Winter Term open to BBA Co-op majors until date specified in the BIRT guide.

Prerequisite: OBHR 2P91.

Completion of this course will replace previous assigned grade in OBHR 2P51.

### 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 until date specified in the BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 10.0 overall credits.

Prerequisite: OBHR 3P42.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in OBHR 4P62.

### 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. Emphasis on small group experiential exercises for skill development.

*Lectures, case discussion, 3 hours per week.*

Restriction: open BBA students approved to the human resource management concentration until date specified in the BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P42.

Note: enrolment limited to 40 students per section.

### OBHR 4P63

#### Industrial and 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 BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P97 (4P62) 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 BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P42.

Note: enrolment limited to 40 students per section.

OBHR 4P66

**Motivation and Compensation Management**

Motivation theories and their application. Compensation theory and practice including pay and benefits determination, job evaluation and the overall planning and administration of compensation and reward systems.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the human resource management concentration until date specified in the BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits. Prerequisite: OBHR 3P97 (4P62).

Note: enrolment limited to 40 students per section.

OBHR 4P67

**Training and Development**

The 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 BBA students approved to the human resource management concentration until date specified in the BIRT guide. After that date open to BBA, BAcc, BBE, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P97 (4P62).

Note: enrolment limited to 40 students per section.

OBHR 4P68

**Leadership and Supervision**

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 BIRT guide. After that date open to

BBA, BAcc, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P42.

Note: enrolment limited to 40 students per section.

OBHR 4P69

**Staffing and Evaluation**

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 BIRT guide. After that date open to BBA, BAcc, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P97 (4P62).

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 BIRT guide. After that date open to BBA, BAcc, BCB, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisites: ACTG (MGMT) 2P40, MGMT 1P92 or 1P96; OBHR 3P42, 3P97 (4P62) and 4P63 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 until date specified in the BIRT guide. After that date, open to BBA, BAcc, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P42.

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 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 BIRT guide. After that date, open to BBA, BAcc, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 4P63.

Note: enrolment limited to 40 students per section.

Completion of this course will replace previous assigned grade in OBHR 4V96.



## ORGANIZATIONAL BEHAVIOUR AND HUMAN RESOURCES

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 12.5 overall credits.

OBHR 4V97

### 2002-2003: Human Resource Information Systems and Research

The nature and scope of human resource information systems (HRIS) as a managerial tool. Topics include the application of research methodology and statistics to human resource management, the interface of HRIS with other human resource management functions and various applications of such systems to the work of human resource professionals.

*Lectures, case discussion, 3 hours per week.*

Restriction: open to BBA students approved to the human resource management concentration until date specified in the BIRT guide. After that date, open to BBA, BAcc, CSBC and combined Business majors. Students must have a minimum of 12.5 overall credits.

Prerequisite: OBHR 3P97 or permission of the instructor.

Note: enrolment limited to 40 students per section.

OBHR 4V98

### 2002-2003: Occupational Health and Safety

Legal, technical and management issues regarding employee health and safety. Topics include occupational health and safety legislation; hazard identification and control; accident investigation; emergency preparedness; properties of chemical, biological and physical agents; ergonomics and management of occupational health and safety programs.

*Lectures, case discussion, 3 hours per week.*

Prerequisite: OBHR 3P97 (4P62)

Note: enrolment limited to 40 students per section.

# Philosophy

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

### Introduction to Philosophy: Philosophies of 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

### Introduction to Philosophy: The Foundations of the Present

An attempt to place the philosophical issues which confront the reflective individual today in their historical context by examining the teachings and arguments which shape our views of such matters as body and soul, life after death, truth and knowledge, faith and moral responsibility.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in PHIL 1F90, 1F91 and 1F94 except with permission of the department.

PHIL 1F94

### Introduction to Philosophy: Philosophical 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

### Beginnings of Greek Philosophy: Pre-socratics to Plato

Survey of Western philosophy from its birth in the Pre-Socratics (sixth century B.C.) 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 (Epicuran, Stoic, Sceptic) to Plotinus (third century A.D.).

Completion of this course will replace previous assigned grade in PHIL 2F01.

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. In contentious moral issues, such as abortion, euthanasia and animal rights, disagreements and attempts to explain the ultimate basis of such disagreements and concludes with an attempt to explain why consensus alludes 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

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

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theory and practice of yoga.

*Lectures, seminar, 3 hours per week.*

PHIL 2P13

### **Indian Philosophy: An Introduction to Buddhist Thought**

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**

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. Selected writers may include Nietzsche, Derrida, Levinas, Irigaray, Kristeva, Cixous and Wyschogrod.

*Seminar, 3 hours per week.*

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 may 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 2P91

### **Philosophy of Art**

Historical and systematic approach to the theory of art, analysing the current proliferation of theories as variations on a few basic concepts such as work-analysis vs. content-analysis; constitutive vs. genetic or affective definition; intrinsic vs. extrinsic meaning.

*Seminar, 3 hours per week.*

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**

Examination of 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).

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 honours BIOL (single or combined) major.

Completion of this course will replace previous assigned grade in PHIL (BIOL) 2F95.

PHIL 2P96

### **Philosophy of Human Nature**

Major philosophical orientations regarding the concept of humanity across the Western and some 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.

Completion of this course will replace previous assigned grade in PHIL 2F96.

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

##### **Philosophy of Sex**

Application of ethics to questions of human sexuality. Topics may 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 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.*

Prerequisites: 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 philosophers such as Husserl, Heidegger, Sartre, Merleau-Ponty, Scheler and others.

*Lectures, 3 hours per week.*

Prerequisite: PHIL 2P14 or 2P15 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.*

Prerequisite: 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.*

Prerequisite: 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 etc.); the problems of hermeneutics in the works of such thinkers as Gadamer, Ricoeur, Heidegger and Habermas.

*Seminar, 3 hours per week.*

Prerequisite: PHIL 2P14 or 2P15 or permission of the instructor.

#### PHIL 3Q90

##### **Consciousness and Society**

(also offered as PSYC 3Q90)

Psychoanalytic approaches to modern clinical pathologies of narcissism, transpersonal psychologies of meditation and consciousness, and socio-cultural approaches to radical salvation movements are combined to examine both the nature and history of religious-mystical experience and the repeated appearance of mystical movements and gnostic cults throughout the 20th-century. Emphasis on the personal, social, and political conflicts associated with these phenomena.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PHIL (single or combined) and PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

#### PHIL 3Q95

##### **Theories of Personality: Freud and Jung**

(also offered as PSYC 3Q95)

Major clinically derived theories of personality with special attention to their bases in case study/life history methodology; focus on Freud and Jung

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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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90. Prerequisite: PSYC 1F90.

### PHIL 3Q96

#### **Theories of Personality: Developments in Psychodynamic and Transpersonal Psychology**

(also offered as PSYC 3Q96)

Major developments in the psychoanalytic 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90. Prerequisite: PSYC 1F90.

### PHIL 3V90-3V94

#### **Comparative Studies in Philosophy**

Historical and systematic study of one or more important themes as developed in ancient Greek, modern and contemporary philosophy and/or eastern thought.

*Seminar, 3 hours per week.*

Prerequisite: one PHIL credit or permission of the instructor.

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 etc.) through its classical origins.

*Seminar, 3 hours per week.*

Prerequisites: PHIL 2P02 or 2P03 or permission of the instructor.

### PHIL 4P07

#### **Husserl and Transcendental Phenomenology**

Basic issues and the characteristic method of phenomenology using some of the major works of Husserl.

*Seminar, 3 hours per week.*

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

### 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.*

Prerequisites: PHIL 2P02 or 2P03 or permission of the instructor.

Completion of this course will replace previous assigned grade in PHIL 3P56 and PHIL 3P96.

### 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 or 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 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).

### 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 4V06-4V14

#### **Studies in Contemporary European Philosophy**

The work of one or more thinkers

prominent in recent Continental thought.  
*Seminar, 3 hours per week.*

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V06

2002-2003: Kierkegaard

PHIL 4V07

2002-2003: Levinas

(also offered as FREN 4V80)

PHIL 4V08

2002-2003: Nietzsche

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 4V15

2002-2003: Heidegger

PHIL 4V30-4V45

**Advanced Studies in Eastern Philosophy**

Concentrated critical and interpretative study of selected texts in the areas of Advaita, Vedanta, Yoga etc. or Madhyamika and Yogacara schools of Buddhism.

*Seminar, 3 hours per week.*

Restriction: students must have a minimum 70 percent major average and a minimum of 10.0 overall credits.

PHIL 4V34

2002-2003: Yogachara Buddhism

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.

PHIL 4V49

2002-2003: Husserl and Dharmakirti

# Physical Education and Kinesiology

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met

### PEKN 1P90

#### Foundations of Movement Science

Basic concepts in functional anatomy, exercise physiology, biomechanics, motor control and sport psychology. Key issues concern changes in movement function and behaviour throughout the life span and in response to training.

*Lectures, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide.

Completion of this course will replace previous assigned grade in PHED 1P90 and PHED 1P92.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide.

Completion of this course will replace previous assigned grade in PHED 1P93.

### PEKN 1P99

#### Foundations of Applied Health Science Inquiry

(also offered as PEKN 1P99, CHSC 1P99, RECL 1P99, SPMA 1P99 and TOUR 1P99)

Multidisciplinary approaches to critical inquiry in applied health science. Introduction to investigative methods of research and critical analysis in the fields of health, sport, recreation and physical activity.

*Lectures 1.5 hour alternating weeks, seminar alternating weeks.*

Restriction: open to students admitted to BPhEd, BKin, BPhEd/BEEd, CHLH, CHSC, HLSC, RECL, SPMA, TOUR and WKHL.

Completion of this course will replace previous assigned grade in CHSC 1P90, PHED 1P99

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P93.

Completion of this course will replace previous assigned grade in PHED 2P00.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in SPMA 2P01 and PHED 2P01.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P93.

Completion of this course will replace previous assigned grade in PHED 2P03.

### PEKN 2P04

#### Musculo-skeletal Anatomy

The anatomical bases of skeletal and muscular movement, joint actions and the interrelationship of aggregate muscle groups.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P90.

Completion of this course will replace previous assigned grade in PHED 2P04, CHSC (HLST) 2P93 and SPMA 2P93.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P90.

Completion of this course will replace previous assigned grade in PHED 2P05.

### PEKN 2P06

#### Creative Dance I

Introduction to dance as art. Emphasis on composing, performing and appreciating dance sequences.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P93.

Note: students will be expected to pay the cost of a ticket to a dance performance on campus.

Completion of this course will replace previous assigned grade in PHED 2P06.

## 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, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P99 or COSC 1P95.

Completion of this course will replace previous assigned grade in CHSC 2Q07, HLST 2P07, PHED 2Q07, RECL 2P07, RECL 2Q07, SPMA 2P07, SPMA 2Q07, TOUR 2P07 and TOUR 2Q07.

## PEKN 2P09

**Human Physiology**

Molecular, cellular, tissue and organ physiology. Topics include nerve cells and nerve transmission, autonomic nervous system, cardiovascular and respiratory systems, blood cells and immunity.

*Lectures, seminar 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P90.

Completion of this course will replace previous assigned grade in PHED 2P09, CHSC 2P09 and HLST 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 2P19.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 2P41.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 2P44.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 2P04.

Completion of this course will replace previous assigned grade in PHED 2P70.

## PEKN 2P84

**Human Growth and Motor Development**

Examination of human growth and motor development, with particular attention to physical, cognitive, and affective development across the life span.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P90.

Completion of this course will replace previous assigned grade in PHED 1P94 and 2P84.

## PEKN 2P91

**Social History of Physical Education and Sport**

Socio-cultural evolution of physical activity from ancient times to the present. Emphasis on Europe and North America.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P93.

Completion of this course will replace previous assigned grade in PHED 1P91 and 2P91.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Note: applied work, placement/practica required.

Completion of this course will replace previous assigned grade in PHED 2P92 and 3P04.

## 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, BKin, BPhEd/BEEd, CHYS BA/BEEd and CHYS (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: one of PEKN (PHED) 1P90, CHYS 1F90, PSYC 1F90.

Completion of this course will replace previous assigned grade in PHED 2P93.



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### 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, BKin, BPhEd/BEEd, CHYS BA/BEEd and CHYS (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: one of PEKN (PHED) 1P93, CHYS 1F90, PSYC 1F90.

Completion of this course will replace previous assigned grade in PHED 2P94.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 2P95.

### PEKN 2P97

#### Exercise Physiology I

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, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 4.0 overall credits.

Prerequisite: PEKN (PHED) 1P90 and 2P09.

Completion of this course will replace previous assigned grade in PHED 2P97.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 1P93.

Completion of this course will replace previous assigned grade in PHED 3P00.

### PEKN 3P01

#### High Performance Athletic Assessment and Training

Theoretical and practical fundamental principles underlying training methodologies as they apply to high performance athletic assessment and training. Active participation, development, implementation and critical evaluation of selected performance-specific assessment protocols, conditioning methodologies and individualized training programs.

*Lectures, lab, 3 hours per week*

Restrictions: Open to BPhEd, BKin, BPhEd/Bkin, BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: PEKN 2P04 and 2P97.

Note: performance in activity labs and fieldwork in applied setting are required.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P03.

Completion of this course will replace previous assigned grade in PHED 3P03.

### PEKN 3P06

#### Creative Dance II

Dance as art through composition, performance and appreciation. Topics include aesthetics, the choreographic process, form and meaning.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in

BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P06.

Note: students will be expected to pay the cost of a ticket to a dance performance on campus.

Completion of this course will replace previous assigned credit in PHED 3P06.

### PEKN 3P08

#### Quantitative Analysis

Quantitative means of understanding, evaluating and interpreting statistical information.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN 2P08 (PHED 2Q07).

Completion of this course will replace previous assigned grade in CHSC 3Q07, HLST 3P07, PHED 3Q07, RECL 3P07, 3Q07, SPMA 3P07, 3Q07, TOUR 3P07 and 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, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P04.

Completion of this course will replace previous assigned credit in PHED 3P10 and SPMA 3P10.

### PEKN 3P16

#### Folk and Social Dance

Performance and analysis of folk and social dance with emphasis on applications for persons with disabilities and youth and senior populations.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned credit in PHED 3P16 (3P07).

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN 2P08 (PHED 2Q07). Completion of this course will replace previous assigned grade in CHSC 3Q17, HLST 3P17, PHED 3Q17, RECL 3P17, 3Q17, SPMA 3P17 3Q17, TOUR 3P17 and 3Q17.

## PEKN 3P23

**Functional and Expressive Movement for Diverse Populations**

Thematically organized assessment protocols and appropriate activity programming for 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: PEKN (PHED) 2P92 and one credit from PEKN (PHED) 2P00, 2P03, 2P06.

Completion of this course will replace previous assigned grade in PHED 3P23.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one credit from PEKN (PHED) 2P00, 2P03, 2P06.

Completion of this course will replace previous assigned grade in PHED 3P32.

## PEKN 3P41

**Health and Well-being**

Contemporary issues in health education focusing on choices of concern to individuals in our society.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 3P41.

## 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, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 3P70.

## 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, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P95.

Completion of this course will replace previous assigned grade in PHED 3P75.

## PEKN 3P76

**Dance: Contemporary Issues and Trends**

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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 3P76.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits and permission of the instructor.

Prerequisite: PEKN (PHED) 2P70.

Note: a minimum grade of 75 percent in PEKN (PHED) 2P70 is required. In addition, a letter submitted by May 1, stating explicit experience which may include work in a therapy clinic, with a varsity/community team as trainer/therapist, certification in CPR and First Aid, completion of the sports injury and prevention and care course and the taping course offered by the Ministry of Tourism and Recreation. References and an interview may be used to determine eligibility to enter the course. Students should note that this is a limited enrolment course and admission is not guaranteed by attainment of the minimum requirements. A clinical internship in the Athletic Injury Clinic is required. Enrolment limited to 22 students per section. Completion of this course will replace previous assigned grade in PHED 3P80.

## 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits and

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permission of the instructor.

Prerequisite: PEKN (PHED) 3P80.

Note: clinical internship required. Enrolment limited to 22 students per section.

Completion of this course will replace previous assigned grade in PHED 3P81.

### PEKN 3P90

#### Exercise Physiology II

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, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P97.

Completion of this course will replace previous assigned grade in PHED 3P90.

### 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 selection of activities.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: PEKN (PHED) 2P04 and 2P05.

Completion of this course will replace previous assigned grade in PHED 3P91.

### PEKN 3P92

#### Chronic Conditions and Disability Across the Lifespan

Examination of disease management and activity intervention protocols with attention to health and lifestyle consequences.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P92.

Note: applied work, placement/practical required.

Completion of this course will replace previous assigned grade in PHED 3P92.

### 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, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 3P93.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P05.

Completion of this course will replace previous assigned grade in PHED 3P94.

### PEKN 3P95

#### Psychology of Physical Activity II

Integration of reading, research, and applied work in the area of sport psychology. Analysis and discussion of research and readings on the effects of psychological variables on performance.

*Lectures, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 2P95.

Completion of this course will replace previous assigned grade in PHED 3P95.

### 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, tutorial, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, BPhEd/BEEd and WISE majors until date

specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PEKN (PHED) 1P93 or WISE 1F90 or permission of the instructor.

Note: experiential work (somatic, movement, expressive) is part of the course experience.

Completion of this course will replace previous assigned grade in PHED 3P96.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one credit from PEKN (PHED) 2P00, 2P03, 2P06.

Completion of this course will replace previous assigned grade in PHED 3P97.

### PEKN 3P99

#### Special Studies in Physical Education

Directed study in specialized areas of physical education.

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors with 8.0 overall credits and permission of the Department. Note: approval of a faculty member and the Chair required.

Completion of this course will replace previous assigned grade in PHED 3P99.

### PEKN 3V91-3V99

#### Selected Topics in Physical Education

Lectures, seminars and practical experiences offered in specialized areas of physical education.

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors with a minimum of 8.0 overall credits and permission of the Department.

Note: approval of a faculty member and the Chair required.

Completion of this course will replace previous assigned grade in PHED 3V91-3V99.

### PEKN 3V91

#### 2002-2003: Health

PEKN 3V92

**2002-2003: Disability**

Completion of this course will replace previous assigned grade in PHED 3V92 and PHED 4M92.

PEKN 3V95

**2002-2003: Psychology**

PEKN 4F02

**Disability Studies Practicum**

Planning and implementing bodily based experiences with persons with disabilities and chronic conditions. 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisite: PEKN (PHED) 2P92.

Completion of this course will replace previous assigned grade in PHED 4F02.

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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisite: PEKN 3P08 (PHED 3Q07 and 3P08) or PEKN 3P18 (PHED 3Q17 and 3P18).

Completion of this course will replace previous assigned grade in PHED 4F90.

PEKN 4F91

**Thesis/Project**

Directed study in an approved area of specialization.

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors with a minimum of 12.0 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. Completion of this course will replace previous assigned grade in PHED 4F91.

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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisites: PEKN (PHED) 3P03.

Completion of this course will replace previous assigned grade in PHED 4F93.

PEKN 4M90-4M99

**Selected Issues in Physical Education**

Selected issues in the student's selected field.

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors with a minimum of 12.0 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. Completion of this course will replace previous assigned grade in PHED 4M90-4M99.

PEKN 4M92

**2002-2003: Disability**

Completion of this course will replace previous assigned grade in PHED 3V92 and PHED 4M92.

PEKN 4M94

**2002-2003: Motor Development/Motor Learning**

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, lab, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a

minimum of 12.0 overall credits.

Prerequisite: PEKN (PHED) 3P10.

Completion of this course will replace previous assigned grade in PHED 4P10.

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, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 4P11 and SPMA 4P11.

PEKN 4P12

**Fitness and Conditioning for Persons with Disabilities and Chronic Conditions**

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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisites: PEKN (PHED) 2P92 and 3P91.

Completion of this course will replace previous assigned grade in PHED 4P12.

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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 4P13.

## PHYSICAL EDUCATION AND KINESIOLOGY

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisites: PEKN (PHED) 2P04 and 2P09.

Completion of this course will replace previous assigned grade in PHED 4P22.

### PEKN 4P31

#### **Reflective Practicum in Physical Education**

The processes involved in becoming reflective practitioners. Emphasis on the development of reflective awareness as a significant aspect of practitioner conduct.

*Lectures, lab, field work, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 4P31.

### PEKN 4P32

#### **Movement Orientation in Teaching Physical Education**

Development and implementation of movement programs for children and adolescents. Curricular application of Laban's principles and other conceptual analysis in a teaching setting.

*Lectures, lab, fieldwork, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisite: one credit from PEKN (PHED) 2P00, 2P03, 2P06.

Note: teaching practicum in a school is required.

Completion of this course will replace previous assigned grade in PHED 4P32.

### 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have with a minimum of 12.0 overall credits.

Prerequisite: PEKN (PHED) 1P93.

Completion of this course will replace previous assigned grade in PHED 4P50.

### PEKN 4P70

#### **Sociology of Physical Education 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, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisite: PEKN (PHED) 3P70

Completion of this course will replace previous assigned grade in PHED 4P70.

### PEKN 4P94

#### **Investigative Methods in Neurokinesiology**

Neurophysiological techniques in the generation and learning of human movement. Transcranial magnetic stimulation, transcranial electrical stimulation, electrical stimulation of peripheral nerves, electroencephalography, stretch reflex and muscle methodology.

*Lectures, lab, seminar 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisite: PEKN (PHED) 3P94.

### PEKN 4P95

#### **Women and Sport**

(also offered as WISE 4P95)

Historical and current issues relating to women's participation in sport. The influence of physiological, psychological and sociological factors on performance.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd and WISE majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 4P95 and SPMA 4P95.

### 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. Current research in human metabolic regulation is emphasized.

*Lectures, seminar, 3 hours per week.*

Restriction: open to BPhEd, BKin, and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 3V97.

### 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, BKin and BPhEd/BEEd majors until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

Prerequisites: PEKN (PHED) 2P09 and 3P08 (PHED 3Q07).

Completion of this course will replace previous assigned grade in PHED 3V98.

## Physics

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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

#### PHYS 1F20

##### Physics for Life Sciences

Fundamental classical physics phenomena and concepts: mechanics, optics, electromagnetism and thermal physics.

*Lectures, 3 hours per week; problem sessions, 2 hours per week.*

Note: a background in elementary algebra and trigonometry is useful. This material should be of interest and use to students who plan to major in the physical or life sciences.

Completion of this course will replace previous assigned grade in PHYS 1F25.

#### PHYS 1F25

##### Physics, with Laboratory, for Life Sciences

Combines the lectures in PHYS 1F20 with a laboratory session.

*Lectures, 3 hours per week; problem sessions, 2 hours per week; lab, alternating weeks, 3 hours per week.*

Note: for science students who require an introductory physics course with laboratory but who do not have OAC physics.

Completion of this course will replace previous assigned grade in PHYS 1F20.

#### PHYS 1F90

##### Principles of Physics

Mechanics, electromagnetism and light.

*Lectures, 3 hours per week; problem sessions, 1 hour per week; lab, alternating weeks, 3 hours per week.*

Note: OAC physics is strongly recommended. Designed for students intending to major in physics (either as a single major or as part of a combined major), chemistry, mathematics or

computer science. Credit in PHYS 1F90 is preferred for entry into all year 2 PHYS courses.

#### PHYS 1P10

##### Fluids, Heat and Light

(also offered as ENVI 1P10)

Newton's laws and their consequences: work-energy relationship, energy conservation, momentum-impulse relationship and momentum conservation. Application of Newton's laws to fluids: fluids in equilibrium (pressure and Pascal's principle, surface tension and capillary action); fluids in motion (Bernoulli's equation, viscosity, turbulent flow); principles of centrifuge. Heat and heat flow, phase-changes, heat pumps/refrigeration. Wave nature of light.

*Lectures, 3 hours per week; tutorial, 1 hour per week.*

Restriction: open to OEVI and ENVI (ENVS) (single or combined) majors or permission of the instructor.

#### 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 and tutorial, 3 hours per week.*

Prerequisites: one of PHYS 1F20, 1F25, 1F90 (preferred); MATH 1P01 (1P93) and 1P02 (1P94).

#### PHYS 2P31

##### Electronics

Conduction in metals and semiconductors; circuit analysis; semiconductor junction, diode and transistor; rectification, switching and amplification; digital and linear integrated circuits; electrical measurement instruments.

*Lectures, lab, 6 hours per week.*

Prerequisites: one of PHYS 1F20, 1F25, 1F90; one MATH credit or permission of the instructor.

Note: laboratory will include student exercises and instructor demonstration. No previous course in electricity/magnetism/electronics is required.

Secondary school algebra and some basic calculus will be used in the quantitative sections.

#### 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: one of PHYS 1F20, 1F25, 1F90 (preferred); MATH 1P01 (1P93) and 1P02 (1P94).

#### 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, 3 hours per week; lab, 3 hours per week.*

Prerequisites: one of PHYS 1F20, 1F25, 1F90 (preferred); MATH 1P01(1P93) and 1P02 (1P94).

#### PHYS 2P92

##### Introductory Electronics and Solid-state Devices Laboratory

Laboratory instruments, noise and crosstalk; passive filters; Thevenin equivalents; time and frequency response; Bode plots; junction diodes and rectification; operational amplifiers; active filters; lock-in amplifiers; combinatorial logic gates; sequential logic counters.

*Lab, 3 hours per week.*

Prerequisites: one of PHYS 1F20, 1F25, 1F90; one MATH credit or permission of the instructor.

Note: normally taken concurrently with PHYS 2P31.

#### PHYS 3P20

##### Classical Mechanics

An 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.*

## PHYSICS

Prerequisites: PHYS 2P20; MATH 2F05 (2F95) 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 (2F00 or 2F95) 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 Wave 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 and MATH 2F05 (2F95) 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 2P20 and 3P35 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.*

Prerequisites: PHYS 3P70.

### PHYS 4F50

#### Quantum Mechanics

Operator formalism, Hilbert space, Dirac's transformation theory, matrix mechanics, creation and annihilation operators, second quantization, variational method, perturbation theory, scattering theory.

*Lectures, 4 hours per week.*

Prerequisites: PHYS 3P70 and MATH 3P08 and 3P09 (3F94).

Completion of this course will replace previous assigned grade in PHYS 4P51.

### 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) 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 and 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.*

Restriction: open to PHYS Co-op students with a minimum of 14.5 overall credits.

Prerequisite: PHYS 3P70, MATH 3P08 and 3P09.

Completion of this course will replace previous assigned grade in PHYS 4F50.

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, lattice vibrations, transport properties of solids, magnetism, defects in solids.

*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 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 0N00

#### **Co-op Work Placement**

Optional Co-op placement (4 months) with an approved employer.

Restriction: open to PHYS Co-op students.

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.



# Political Science

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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; emphasis on alternative dispute resolution procedures.

*Lectures, seminar, 3 hours per week.*

### 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 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; personal 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 1P91 and 1P92 or permission of the instructor.

Completion of this course will replace previous assigned grade in POLI (COMM/ LABR) 3F51 and POLI 3P50.

### POLI 2P21

#### **The Politics of International Migration**

Causes and consequences, both domestic and international, associated with intensifying regulated and unregulated population movements. Topics include chain migration, political refugees, economic migrants and the impact of these upon less developed countries, and upon developed countries, including Canada.

*Lectures, seminar, 3 hours per week.*

### 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 2P70

##### **Politics and Popular Music**

(also offered as COMM 2P70, MUSI 2P70 and PCUL 2P70)

Political context and content of popular music. Topics may include theoretical perspectives on popular culture/popular music; the relationship of popular music to public policy, race and gender, popular movements and political identity; political economy of the music business.

*Lectures, seminar, 3 hours per week.*

#### POLI 2P71

##### **Politics and Sport**

Politics and sport in Canadian, comparative and international contexts. Topics include the political economy of sport as business and as popular culture; sport and the politics of class, race and gender; sport and political ideology; sport and national identity; sport and government policy; sport as an instrument of diplomacy and international relations.

*Lectures, seminar, 3 hours per week.*

#### POLI 2P72

##### **Politics and Health**

Political, legal and governmental aspects

of health and wellness in Canada and elsewhere. Evolution of Canadian health policies in comparative perspective. Current issues, including federal-provincial relations, funding and delivery systems; regulation of medical professions; management of the blood supply; the politics and ethics of new reproductive technologies, euthanasia, genetically-altered foods; the challenges of an aging population.

*Lectures, seminar, 3 hours per week.*

#### POLI 2P80

##### **Political Analysis**

Research methodologies and skills commonly used by political scientists. Topics include the evolution of political science, the ways in which empirical political research is carried out, advantages and limitations of the scientific approach in political analysis.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

#### POLI 2P91

##### **Political Theory I**

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.*

#### POLI 2V71

##### **2002-2003: Politics in Film**

Exploration of political themes in selected films. Topics may include political aspects of justice and revenge; power and oppression; alienation and conformity;

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courage; loyalty and love.  
*Lectures, seminar, 4 hours per week.*

### 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 or POLI 2P62 or permission of the instructor.

### 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 or CANA 2F91 or permission of the instructor.

### POLI 3P17

#### **Politics and the Mass Media in Canada**

(also offered as COMM 3P17 and PCUL 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 or COMM 2F50 or permission of the instructor.

### POLI 3P18

#### **Law and Politics**

Canadian constitutional law with emphasis on 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)

Political economy and the role of the state. Relationships between politics and markets and between democracy,

capitalism and socialism.

*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 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

##### **Introduction to Public Administration**

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 POLI credit numbered 1(alpha)90 to 1(alpha)99 or POLI 2P62 or MGMT 1P93 and 1P96 or permission of the instructor.

Completion of this course will replace previous assigned grade in POLI (COMM/ LABR) 2F98 and POLI (COMM/LABR) 3F51.

#### 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.*

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 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 or 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, with an emphasis on contemporary Canada.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one POLI credit numbered 1(alpha)90 to 1(alpha)99 or WISE 1F90 or permission of the instructor.

#### POLI 3P91

##### **Quantitative Political Analysis**

Statistical analysis of quantitative political data 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, seminar, 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 nonparticipant 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 3V00

##### **2002-2003: Politics, Religion, and Philosophy**

Political implications of the relationship between human reason and religious faith, especially Biblical revelation, examined chiefly through a study of how this relationship has been understood by various political philosophers. Topics may include the Book of Job and the Biblical story of King David; Plato's *Euthyphro*; Hebrew, Christian and Islamic writers on natural law and justice; modern attack on revelation by Machiavelli and Hobbes.

Prerequisite: one of POLI 2P91 and 2P92 (2F90), 2P93, (2P01 and 3P01) or permission of the instructor.

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### 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 BIRT guide. After that date open to English Plus, 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.*

Prerequisite: POLI 2P91 and POLI 2P92 (2F90) or 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 4P14

#### Federalism in Canada

Topics may include social diversity and federal institutions, federalism and the party system, the role of the courts, federal-provincial financial relations, federalism and the policy process, the evolving role of provincial authorities and intergovernmental relations.

*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) majors and students concentrating in LABR 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) 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**

Mechanisms and practices which shape the emerging global political economy. Topics may include theories of political economy; the role of international economic institutions (World Bank, IMF, WTO, G8); policy making and global economics; Canadian involvement in the global economy.

*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 4P22

**Foreign Policy Analysis**

Major domestic and external factors determining the content of the foreign policies of selected 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 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) 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) 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) majors with either a minimum of 14.0 overall credits and a minimum 70 percent major average or approval to year 4 (honours).

## POLI 4P38

**Nationalism and Ethnic Politics**

Theory and case studies of the origins and resolution of national conflict, the mobilization of ethnic groups and the role of international forces in what have been viewed traditionally as domestic conflicts. Case studies situate Canada's ethnic tensions within a broader comparative perspective.

*Seminar, 3 hours per week.*

Restriction: open to POLS (single or combined) 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.

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### 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) 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) 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 (3F51) 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) 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 (3F51) 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), LABR and students concentrating in LABR 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 (3F51) 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 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 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) 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).



# Popular Culture

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

PCUL 1F00

### Music in Popular Culture

(also offered as MUSI 1F00)

Survey of developments in blues, jazz, rock and related genres of popular music.

*Lectures, 3 hours per week; listening assignments.*

PCUL 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.

PCUL 2P20

### Introduction to Popular Culture

(also offered as COMM 2P20 and FILM 2P20)

Historical, theoretical and critical approaches to various forms of popular culture (e.g., film, music, television, literature, periodicals and advertising).

*Lectures, seminar, lab, 4 hours per week.*

Prerequisite: one of CANA 1F91, COMM 1F90, FILM 1F94 or permission of the instructor.

PCUL 2P21

### Canadian Popular Culture

(also offered as COMM 2P21 and FILM 2P21)

Survey of the media in Canada. Studies in

the popular arts, with special reference to the ways in which institutions (e.g., CBC, NFB) and selected artists identify and express a Canadian cultural imagination.

*Lectures, seminar, lab, 4 hours per week.*

Prerequisite: PCUL 2P20 or permission of the instructor.

PCUL 2P22

### Media and Sport

(also offered as COMM 2P22 and SPMA 2P22)

Representation of sport in film, television and advertising. Topics may include issues of race, gender, business, politics and ideology in both professional and non-professional sport.

*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.

PCUL 2P70

### Politics and Popular Music

(also offered as COMM 2P70, MUSI 2P70 and POLI 2P70)

Political context and content of popular music. Topics may include theoretical perspectives on popular culture/popular music; the relationship of popular music to public policy, race and gender, popular movements and political identity; political economy of the music business.

*Lectures, seminar, 3 hours per week.*

PCUL 2P94

### Popular Cinema

(also offered as COMM 2P94 and FILM 2P94)

Popular cinema as art and institution with emphasis on film genres and cultural contexts.

*Lectures, seminar, 3 hours per week; plus weekly lab.*

Prerequisite: FILM 1F94.

PCUL 3P16

### Mass Media

(also offered as COMM 3P16 and SOCI 3P16)

Introduction to methods of media analysis. Comparison of theoretical and methodological approaches to mass media content, structures, institutions and audiences. Analysis of relations among media, culture and society with reference to Canadian examples.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one of PCUL 2P21, COMM 2F50, SOCI 2F10 or permission of the instructor.

PCUL 3P17

**Politics and the Mass Media in Canada**  
(also offered as COMM 3P17 and POLI 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 or COMM 2F50 or permission of the instructor.

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.*

Prerequisite: one of PCUL 2P20 and 2P21, FILM 2F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in PCUL 3F50.

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.*

Prerequisite: PCUL 3P20 or permission of the instructor.

Completion of this course will replace previous assigned grade in PCUL 3F50.

PCUL 3P92

### Technology and Culture

(also offered as COMM 3P92 and FILM 3P92)

Studies in the effects of technological change on cultural forms and the representations of technology in different media.

*Lectures, lab, seminar, 4 hours per week.*

Prerequisite: COMM 2P20 or 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: COMM 2F50 or SOCI 2F10 or permission of the instructor.

#### PCUL 3P96

##### **Issues in Popular Culture**

(also offered as COMM 3P96 and FILM 3P96)

Specialized studies in different media, or the role of different media in specific social, historical or theoretical contexts.

*Lectures, seminar, lab, 3 hours per week; plus weekly lab.*

Prerequisite: PCUL 2P20 and 2P21 or FILM 2F90 or permission of the instructor.

#### PCUL 4F80

##### **Directed Reading**

Directed individual or group readings in an area of popular culture.

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 proposal before registration. The reading may not be on the topic of the student's PCUL 4F99 honours thesis.

#### 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 70 percent major average, a minimum 60 percent non-major average, approval to year 4 (honours) and permission of the Undergraduate Program Adviser.

Prerequisite: PCUL 4P30 and 4P31 (4F30) (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 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 Popular Culture**

(also offered as COMM 4P23 and SOCI 4P23)

Advanced research seminar on the relations between mass media and popular culture. Topics vary with the interests of instructor and students.

*Seminar, 3 hours per week.*

Restriction: open to PCUL (single or combined), COMM and SOCI (single or combined) majors with approval to year 4 (honours) or permission of the instructor.

Prerequisite: PCUL 2P20 or 3P16 (SOCI/ COMM 2P23) or permission of the instructor.

#### 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.

Completion of this course will replace previous assigned grade in PCUL (COMM/ FILM) 4F30.

#### PCUL 4P31

##### **Theories of the Visible**

(also offered as COMM 4P31 and FILM 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 PCUL (single or combined), COMM (single or combined) and FILM (single or combined) with approval to year 4 (honours) or permission of the instructor.

Completion of this course will replace

previous assigned grade in PCUL (COMM/ FILM) 4F30.

#### PCUL 4P55

**Advertising, Mass Media and Culture**  
(also offered as COMM 4P55 and HIST 4P55)

Historical research into the development of Canadian advertising practices in an international context. Examination of the cultural and economic impact of advertising on the mass media, as well as the role of advertising in the formation of a consumer culture.

*Seminar, 3 hours per week.*

Restriction: Open to PCUL (single or combined), COMM (single or combined) and HIST (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 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, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to PCUL Co-op students.

# Portugese

*These course offerings are co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### PORT 1F00

#### **Introductory Portuguese**

Listening, reading, writing and speaking emphasis on a communicative approach to learning a language.

*Lectures, language lab, tutorials, 4 hours per week.*

Note: for students with little or no background in Portuguese.

### PORT 1F90

#### **Intermediate Portuguese**

Review of Portuguese grammar with an emphasis on written and oral practice. Introduction to Portuguese and Brazilian literary and cultural readings, as well as to topics of current interest.

*Lectures, language lab, tutorial, 4 hours per week.*

Prerequisite: PORT 1F00 or equivalent, or permission of the instructor.

## Psychology

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.*

Restriction: open to all students until date specified in BIRT guide and then open to students with permission of the department.

Note: prerequisite to all courses in Psychology except PSYC 2F23, 3Q91 and 3Q92.

#### PSYC 2F12

##### Life Span Development

Introduction to the conceptual bases of life span development, a survey of relevant research and an overview of methodological issues. Topics illustrating life span developmental research and theory will be drawn from the following areas: intellectual, moral, personality, physiological, sexual and social development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, LING and WKHL majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade in CHYS(CHST) 2F10.

#### PSYC 2F20

##### Cognition

Acquisition and utilization of knowledge. Topics include information processing

and connectionism, attention and memory, concepts, imagery, problem solving and reasoning, judgment and decision making, language and thought.

*Lectures, seminar, 3 hours per week.*

Prerequisite: PSYC 1F90.

#### 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: at least one OAC Mathematics 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 BIRT guide.

Prerequisite: PSYC 1F90.

#### PSYC 2F30

##### Introduction to Social Psychology

Theories, methods, research and issues of contemporary social psychology. Topics include social perception and cognition, attitudes, influence, attraction, aggression, altruism, communication, conflict, group and collective behaviour; the psychological study of social issues pertaining to prejudice, law, environment and health.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), COMM (single or combined), CHSC, HLSC and WKHL majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

#### PSYC 2F36

##### Physiological Psychology

(also offered as NEUR 2F36)

Biological aspects of behaviour; the functional activities of the neuron and the interrelationships among neural systems (brain organization) and resultant behaviour (brain and behaviour). Topics

include the psychobiology of sensory and motivational systems, emotion and affect, learning, memory, language and consciousness.

*Lectures, 2 hours per week; lab, 3 hours alternating weeks.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR and WKHL majors with a minimum 67 percent major average until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

#### 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. Emphasis on learning in nonhuman animals.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

#### PSYC 2F91

##### Perception

Theoretical problems and actual mechanisms of seeing and hearing. Basic problems of pattern recognition, memory and attention; the influence of culture, motivation, personality and pathology on perception.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR and WKHL majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

#### PSYC 2F97

##### Experiential Psychology

Subjective experience (altered states of consciousness) and methods as an alternate way of "doing" psychology. Phenomena of dreams, psychedelic drugs, hypnosis, schizophrenia, religious mysticism and the 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 symbol formation.

*Lectures, seminar, 3 hours per week.*

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Restriction: open to PSYC (single or combined) majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

Completion of this course will replace previous assigned grade in PSYC 2P92, 2P96 and 2P97.

### PSYC 2P91

#### Health Psychology

Psychological aspects of health and illness. The prevention and treatment of illness and the maintenance of wellness. The behavioural and social factors that play a role in the etiology of health and illness. Contributions from scientific investigation and from professionals in the health care system.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and CHSC, HLSC and WKHL majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90.

### PSYC 2P93

#### Psychology of Women

(also offered as WISE 2P93)

Social, personal and political implications of gender. Topics include theoretical perspectives on the study of gender differences, stereotypes, sexuality, biological influences, as well as 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 majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90 or WISE 1F90.

### PSYC 2P94

#### 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 BIRT guide.

Prerequisite: PSYC 1F90.

### PSYC 2P98

#### Child Language Acquisition: Early Stages

(also offered as CHYS 2P98 and LING 2P98)

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. The effect of interaction with care givers. Early bilingualism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 1F91 or PSYC 1F90 or permission of the instructor.

### PSYC 2P99

#### Child Language Acquisition: Late Stages

(also offered as CHYS 2P99 and LING 2P99)

Later acquired aspects of language, especially syntactic, semantic and pragmatic. Development of ability to use linguistic ambiguity, humour. Reading and writing skills, registers. Abnormal language development.

*Lectures, seminar, 3 hours per week.*

Prerequisite: LING 2P98 or permission of the instructor.

### PSYC 3F10

#### Media Psychology

(also offered as COMM 3F10)

Psychological aspects of media as entertainment and information, including social factors and cultural environments (e.g. sex, violence, sports, music, news, talk shows).

*Lectures, lab, 3 hours per week.*

Restriction: open to PSYC (single or combined) and COMM (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PSYC 1F90 or COMM 1F90 or permission of the instructor.

### PSYC 3F20

#### Abnormal Psychology

Major theories which have emerged to explain aberrant and dysfunctional behaviour are considered and evaluated. Consideration is given to the scientific, moral/ethical and political foundation of this area of study.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

### PSYC 3F40

#### Psychological Research

Research methods in several areas of psychology; emphasis on 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) with a minimum 75 percent major average. Students must have 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).

Note: NEUR majors should consult the Neuroscience calendar entry.

Completion of this course will replace previous assigned grade in PSYC 3P30.

### PSYC 3F46

#### Psychology of Eating

Biological and environmental factors influencing food consumption in animals and humans, including both theoretical and applied issues. Topics include physiological control of food intake; biological, social and cultural factors influencing food selection; the effects of food on behaviour; eating disorders; and obesity and weight control.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

### PSYC 3F91

#### Neuroscience

(also offered as NEUR 3F91)

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.

*Lectures, 2 hours per week, lab, 3 hours alternating weeks.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR and WKHL majors until date specified in BIRT 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.

#### PSYC 3F97

##### **Personality Assessment and Research**

Issues in the general areas of individual social development, interpersonal communication, person perception, friendship formation, personality change, implicit personality theory, schizophrenia, neurosis, marital, individual and group therapy, perception of the environment, professional training and role playing.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

#### PSYC 3P11

##### **Theories in Developmental Psychology** (also offered as CHYS 3P11)

Theories in developmental psychology and recent controversies and evidence.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHYS (single or combined) and CHYS BA/BEEd majors until date specified in BIRT 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, HLSC and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

#### 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 the transition to parenthood, different styles of parenting, dual-career parents and abusive parents.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHYS (single or combined) and CHYS BA/BEEd majors until date specified in BIRT 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 3P27

##### **Psychology of the Exceptional Child**

Integration of theoretical, experimental and clinical approaches to the development of the child with special needs, such as the child who is developmentally delayed or perceptually handicapped.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT 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 or permission of the instructor.

#### 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 credits above PSYC 1F90 and permission of the department.

Prerequisite: PSYC 2F23.

Completion of this course will replace previous assigned grade in PSYC 3F40.

#### 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

#### PSYC 3P34

##### **Psychology of Human Sexuality**

Introduction to the psychological study of human sexuality. Psychological methods, along with developmental, social/personality, cognitive, and neuropsychological 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 sexually transmitted diseases.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

#### 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

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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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

### 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 until date specified in BIRT guide. After that date open to PSYC (single or combined) and NEUR majors. Students must have 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; emphasis on developing 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; emphasis on 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Completion of this course will replace previous assigned grade in PSYC 3F45.

### PSYC 3P47

#### Comparative Psychology II

Advanced topics in comparative psychology; an in depth study of individual species behaviour as well as the study of instincts and aggression across species lines.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and NEUR majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 3P45

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

Topic, 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 3P54

#### Psychology of Western Consciousness

Attention, memory, hemispheric laterality and language are examined from a general systems theory perspective. Topics include altered states of consciousness, lucid dreams, self concepts and the effects of stress on consciousness. Western approaches to consciousness are contrasted and integrated with American Indian shamanistic techniques for altering consciousness.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

### PSYC 3P55

#### Psychology of Eastern Consciousness

Asian psychology approached from a Buddhist perspective; the history, evolution, and migration of Buddhism. Topics include meditation, Taoism, Zen Buddhism, Sufism 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

### PSYC 3P68

#### Sleep and Wakefulness

Functions, mechanisms, rhythms, physiology and psychology of sleep contrasted with counterparts during wakefulness. Current issues in sleep research.

*Lectures/seminar, lab, 4 hours per week.*

Restriction: open to PSYC (single or combined) and NEUR majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

## PSYC 3P74

**Psychology of Computers in Education**  
(also offered as CHYS 3P74)

Uses of computers in education in light of current theories of child development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHYS (single or combined) and CHYS BA/BEEd majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisites: PSYC 1F90; one of PSYC 2F23, MATH 1F92 or, for combined CHYS/SOCI majors, SOCI 2F10 (may be taken concurrently).

Note: this is not a computer programming course.

## 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Note: PSYC 2F30 recommended.

## PSYC 3P88

**Words in the Mind**

(also offered as COMM 3P88)

Focus is on the mental lexicon, including basic components, vocabulary, theories of meaning, metaphors and meaning, and selecting and recognizing words in communication.

*Lectures, lab, 3 hours per week.*

Restriction: open to PSYC (single or combined) and COMM (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: one of PSYC 1F90, COMM 1F90 or LING 1F94 or permission of the instructor.

## PSYC 3P92

**Drugs and Behaviour**

Basic principles of drug action and the effects of psychoactive drugs on behaviour and experience. Focus on recreational drugs and the use of drugs in psychiatry.

*Lectures, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

## PSYC 3P93

**Infant Development**

Development of infants from the prenatal period through the second year of life. Topics include perception, cognition, attachment and social development; at-risk infants and infant intervention programs.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors until date specified in BIRT 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 or permission of the instructor.

## PSYC 3P94

**Psychology of Aging**

Focus on 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, NEUR and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

## PSYC 3P95

**Stress**

Stress as related to occupations, environments, life events; methods of appraisal, ways of coping and consequences for health. Three current approaches: stimulus, process, response. Cognitive, emotional and behavioural factors.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) CHSC, HLSC majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

## PSYC 3P96

**Human Psychophysiology**

Concepts related to acquisition and analysis of bioelectrical signals recorded from the brain, papillary system, skeletal muscular 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

## PSYC 3P97

**Bases of Neuropsychopharmacology**  
(also offered as NEUR 3P97)

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. Emphasis on 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, NEUR and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

## PSYC 3P98

**Introduction to Human Neuropsychology**

(also offered as NEUR 3P98)

Focus is on brain function as indicated through an examination of clinical syndromes that result from brain damage. Topics include disorders of memory,



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language, attention and problem solving.  
*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHSC, HLSC, NEUR and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits and 1.0 PSYC credit above PSYC 1F90.

### PSYC 3P99

#### **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, HLSC, NEUR and WKHL majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: one of PSYC 2F36, 3P68, 3P98 or permission of the instructor.

### PSYC 3Q90

#### **Consciousness and Society** (also offered as PHIL 3Q90)

Psychoanalytic approaches to modern clinical pathologies of narcissism, transpersonal psychologies of meditation and consciousness, and socio-cultural approaches to radical salvation movements are used to examine both the nature and history of religious-mystical experience and the repeated appearance of mystical movements and gnostic cults throughout the 20th-century. Emphasis on the personal, social, and political conflicts associated with these phenomena.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and PHIL (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

### PSYC 3Q91

#### **Second Language Acquisition and Learning**

(also offered as LING 3Q91)

Theories of 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.*

### PSYC 3Q92

#### **Methodology in Second Language Instruction**

(also offered as LING 3Q92)

Approaches to teaching and learning, and their influence on classroom methods. Overview of methods from the Greeks to the modern era.

*Lectures, seminar, 3 hours per week.*

Prerequisite: PSYC 3Q91.

### PSYC 3Q93

#### **Conflict, Contradictions and Development**

(also offered as CHYS 3Q93)

Conflict in early human development including the understanding of the causes, management and outcomes of conflicts. Emphasis on cognitive and social strategies used to resolve conflicts.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHYS (single or combined) and CHYS BA/Bed majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: PSYC 2F12 or CHYS 2F10 or permission of the instructor.

### PSYC 3Q94

#### **Advanced Topics in Social Development**

(also offered as CHYS 3Q94)

Social competence, aggression, friendship and other topics in social development from a variety of developmental perspectives. Methodological and training issues relevant to the study of social development.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined), CHYS (single or combined) and CHYS BA/Bed majors until date specified in BIRT 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 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

### PSYC 3Q96

#### **Theories of Personality: Developments in Psychodynamic and Transpersonal Psychology**

(also offered as PHIL 3Q96)

Major developments in the psychoanalytic 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 BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90.

### PSYC 3Q98

#### **Neural Mechanisms of Behaviour**

Brain control of motivated behaviour in animals and humans. Functions of the limbic system and behaviour. Neural circuitries involved in initiation of orientation, locomotion and vocalization in animals. Neural mechanisms of translation of motivational limbic signals into behavioural motor acts. Mechanisms of vocal communication. Vocalization and speech.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and NEUR majors until the date specified in the BIRT 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.

PSYC 3Q99

**Media: Fantasy and Reality**  
(also offered as COMM 3Q99)

Media images and reality, the role of absorption as well as other personality and cognitive aspects of the experience of reality vs. fantasy, virtual reality, computer effects and images.

*Lectures, lab, 3 hours per week.*

Restriction: open to PSYC (single or combined) and COMM (single or combined) majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Prerequisite: PSYC 1F90 or COMM 1F90 or permission of the instructor.

PSYC 4F11

**Applications and Theories of Human Development**

Integration of classical and contemporary theories of human development, focussing on the connection between theory and application, including analysis of social policies and practice. Designed to facilitate students' critical thinking about psychological research and theory building.

*Seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and CHYS (single or combined) majors with a minimum of 13.5 overall credits.

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), CHSC, HLSC and WKHL majors with a minimum 13.5 overall credits.

PSYC 4F90

**Literature Review Thesis**

Review of the research and theory in a focussed 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).

Prerequisites: PSYC 3P30 and 3P39.

Note: topics may be selected from a list assigned by the course coordinator 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, NEUR and WKHL 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 (e.g. psychogenic, childhood amnesia etc.)

*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 4P31

**Treatment Alternatives for Children and Adolescents: Dynamic Therapies**

(also offered as CHYS 4P31)

Theoretical background, research and evaluation of current therapeutic approaches to emotionally and behaviourally disturbed children and adolescents. Topics include play therapies, non-directive, expressive and Gestalt approaches; group methods, use of modelling, goal setting and evaluation methods.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and CHYS (single or combined) majors with a minimum of 13.5 overall credits.

Prerequisite: PSYC 2F12 or CHYS 2F10.

Note: students participate in a practicum placement.

PSYC 4P32

**Treatment Alternatives for Children and Adolescents: Cognitive and Behavioural Approaches**

(also offered as CHYS 4P32)

Behavioural theory and techniques; social skills training, cognitive theories, contingency management and relaxation.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) and CHYS (single or combined) majors with a minimum of 13.5 overall credits.

Prerequisite: PSYC 2F12 or CHYS 2F10. Note: students participate in a practicum placement.

PSYC 4P44

**The Social Psychology of Justice**

Social psychological research and theories, including equity theory and relative deprivation, in relation to the concept of justice. The application of social psychology to the legal system will also be explored, especially with regard to

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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. Emphasis on 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, plus field work.*

Restriction: open to PSYC (single or combined), CHSC (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 4P48

#### Qualitative Methods

Nature and role of qualitative research methodology in psychology in relation to the variety of research functions psychologists perform in the community. Various formal theories with emphasis on program evaluation and action research strategies in the community.

*Lectures, seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with a minimum of 13.5 overall credits.

### 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 (single or combined), NEUR and CHYS BA/BE majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits or 3.0 PSYC credits above PSYC 1F90.

Completion of this course will replace previous assigned grade in PSYC (CHYS) 3P56.

### PSYC 4P92

#### History of Psychology

Historical development of different orientations to psychology. Topics include philosophical and physiological influences in psychology, introspectionism; functionalism, behaviourism, Gestalt theory, psychoanalysis.

*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 detailed study of research relevant to the topic of their honours thesis.

*Seminar, 3 hours per week.*

Restriction: open to PSYC (single or combined) majors with approval to year 4 (honours).

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 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.

*Lectures, presentation, site visits, 3 hours per week.*

Restriction: open to PSYC Co-op students.

PSYC 4V95-4V97

**Special Topics and 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.

**CO-OP COURSES**

PSYC 0N00

**Work Placement**

Optional co-op work placement (4 months) with an approved employer.

Restriction: open to PSYC Co-op students.

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 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.

# Recreation and Leisure Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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 1P91**  
**Introduction to Recreation and Leisure**  
(also offered as TOUR 1P91)  
Nature, significance and theories of recreation and leisure, recreation participation, opportunities for recreation involvement and leisure experiences, recreation resource management, delivery and facilitation structures.  
*Lectures, seminar, 3 hours per week.*  
Completion of this course will replace previous assigned grade in RECL 1F91.

**RECL 1P92**  
**Introduction to Inclusive and Therapeutic Recreation**  
Nature and needs of individuals and groups who may be devalued in our society due to disability, illness, age (youth and older adults), gender, sexual diversity, and ethnicity. Emphasis on attitudes, creating meaningful leisure opportunities and leisure lifestyles in diverse communities, and different models of practice within a leisure context.  
*Lectures, seminar, 3 hours per week.*  
Restriction: open to RECL and TOUR majors.  
Prerequisite: RECL 1P91 (1F91) or permission of instructor.  
Completion of this course will replace previous assigned grade in RECL 2P02.

**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 (1F91) or permission of instructor.  
Completion of this course will replace previous assigned grade in RECL 2P06.  
Note: field experience fee will be charged; consult department.

**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, economics and business.  
*Lectures, seminar, 3 hours per week.*  
Restriction: open to RECL and TOUR majors.  
Prerequisite: RECL 1P91 (1F91) or permission of instructor.  
Completion of this course will replace previous assigned grade in RECL 2P08.

**RECL 1P99**  
**Foundations of Applied Health Science Inquiry**  
(also offered as CHSC 1P99, PEKN 1P99, SPMA 1P99 and TOUR 1P99)  
Multidisciplinary approaches to critical inquiry in applied health science. Introduction to investigative methods of research and critical analysis in the fields of health, sport, recreation and physical activity.  
*Lectures, alternating weeks; seminar, alternating weeks; 3 hours per week.*  
Restriction: open to students admitted to RECL, CHSC, CHLH, HLSC, BPhEd/BEd, PEKI, PEKN, SPMA, TOUR and WKHL.  
Completion of this course will replace previous assigned grade in CHSC 1P90 and PHED 1P99.

**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 department.  
Completion of this course will replace previous assigned grade in RECL 1F91.

**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: RECL 1P99 or COSC 1P95 or permission of the instructor.  
Completion of this course will replace previous assigned grade in CHSC 2Q07, HLST 2P07, PHED 2P08, PHED 2Q07, SPMA 2P07 and 2Q07.

**RECL 2P10**  
**Introduction to Administration of Recreation Service Organizations**  
Principles of administration applied to the organization and operation of a recreation agency. The need for developing goals and objectives and the criteria for evaluation in both the public and private sector.  
*Lectures, seminar, 3 hours per week.*  
Prerequisite: RECL 1P91 (1F91).  
Completion of this course will replace previous assigned grade in SPMA 2P10.

**RECL 2P11**  
**The Social Psychology of Leisure and Recreation**  
(also offered as TOUR 2P11)  
The social psychological 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 students with a minimum of 5.0 overall credits or permission of the instructor.  
Prerequisite: RECL 1P91 (1F91) or CHSC (HLST) 1F90.

**RECL 2P16**

**Fundamentals of Wildland Recreation**  
Impacts of outdoor recreation. Theoretical approaches to carrying capacity, ethical principles and wilderness travel, and pragmatic implications of carrying.

*Lectures, lab, 3 hours per week.*

Prerequisite: RECL 1P96 (2P06) or permission of the instructor.

Note: field experience fee will be charged; consult department.

**RECL 2P18**

**Introduction to the Tourism Industry**  
(also offered as TOUR 2P18)

Foundations of tourism service delivery systems. The interactive relationships among public, quasi-public and private travel tourism systems in Canada and around the world.

*Lectures, seminar, 3 hours per week.*

Prerequisite: RECL 1P98 (2P08) or permission of the instructor.

**RECL 2P32**

**Principles of Inclusive Recreation**

History, philosophies, theories and procedures underlying inclusive recreation, as well as issues related to the practice of inclusive recreation.

*Lectures, 3 hours per week.*

Prerequisite: RECL 1P92 (2P02).

**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; 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.

**RECL 2P42**

**Principles of Therapeutic Recreation**

History, philosophies and theories underlying therapeutic recreation, as well as issues related to the practice of therapeutic recreation.

*Lectures, seminar, 3 hours per week.*

Prerequisite: RECL 1P92 (2P02).

**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.*

Prerequisite: RECL 1P96 (2P06) 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 3F92**

**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 (specialized camp for children with disabilities, nursing home, hospital).

*Orientation, seminar, evaluation workshops, 12 hours.*

Prerequisite: RECL 3P05.

Note: internship proposal must be submitted no later than April 15th each year for approval by the Department. Internship may involve more than one setting, be remunerated or be volunteer.

**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 9.5 overall credits.

Prerequisite: RECL 2P07 and 2P11.

**RECL 3P02**

**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 1P92 (2P02).

**RECL 3P04**

**Leisure and Health Relationships**

Physical, psychological and social factors that affect leisure and health behaviours, including self-concept, social support and stress management. The role of leisure in the pursuit of life satisfaction.

*Lectures, 3 hours per week.*

Restriction: open to students with a minimum of 5.0 overall credits or permission of the instructor.

Prerequisite: RECL 1P91 (1F91).

**RECL 3P05**

**Leisure Services Field Work**  
(also offered as TOUR 3P05)

Practical experiences in specific leisure service agencies. Leadership, programming and community resource development and placement in a community recreation or tourism setting.

*Seminar, field work, 3 hours per week.*

Restriction: open to RECL and TOUR majors with a minimum 60 percent major average and a minimum of 9.5 overall credits.

**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.*

Prerequisite: RECL 1P96 (2P06) 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.

## RECREATION AND LEISURE STUDIES

Emphasis on planning, organizing, staffing, directing, controlling and maintaining services and facilities.

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P10.

### RECL 3P12

#### **Leisure in Later Life**

Characteristics of the aging population and theoretical aspects of aging, particularly as related to recreation, leisure and lifestyle. Practical aspects of recreation and leisure program development, delivery and facilitation for both community-based and institution-based older adults.

*Lectures, seminar, 3 hours per week.*

Prerequisite: RECL 1P92 (2P02).

### 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**

The 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.*

Prerequisite: RECL 1P91 (1F91).

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.*

Prerequisite: RECL 1P98 (2P08).

### 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 SPMA 3P20.

### 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: open to students with a minimum of 5.0 overall credits or permission of the instructor.

Prerequisite: RECL 1P91 (1F91).

### RECL 3P22

#### **Leisure Education and Counselling**

Tools, techniques and strategies for leisure education and counselling. Creating leisure awareness in inclusive and therapeutic recreation settings.

*Lectures, lab, 3 hours per week.*

Prerequisite: RECL 1P92 (2P02).

### 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.

### RECL 3P26

#### **Interpretation and Outdoor Education**

The importance of interpreting natural and cultural resources; how to interpret these resources.

*Lectures, 3 hours per week.*

Prerequisite: RECL 1P96 (2P06) and ENVI (ENVP) 1P90 or permission of the instructor.

### RECL 3P28

#### **Interactive Travel Distribution Channels** (also offered as TOUR 3P28)

The nature and scope of interactive market distribution channels for travel products and services including the Internet and global distribution systems.

*Lectures, 3 hours per week.*

Prerequisite: RECL 1P98 (2P08).

### RECL 3P32

#### **Therapeutic Techniques and Programs**

Procedures necessary for assessment, planning, implementation, management and evaluation in therapeutic recreation services. Tools and techniques used in a variety of therapeutic recreation settings.

*Lectures, 3 hours per week.*

Prerequisites: RECL 1P92 (2P02).

### RECL 3P36

#### **Adventure Recreation**

Theoretical and practical exploration of historical, social, and psychological foundations of adventure recreation. Topics include group dynamics, facilitation, and risk management.

*Lectures, lab, 3 hours per week.*

Prerequisites: RECL 1P96 (2P06) and 2P16, or permission of the instructor.

Note: field experience fee will be charged; consult department.

### RECL 3P38

#### **Tourism and Hospitality Management** (also offered as TOUR 3P38)

Investigation of the theories, principles and practices in hospitality and tourism management. Analyses of globalization of competitive environments, corporate strategies for small firms to multinational corporations and visitor management techniques.

*Lectures, 3 hours per week.*

Prerequisite: RECL 1P98 (2P08).

### RECL 3P40

#### **Marketing in Tourism and Recreation Service Organizations** (also offered as TOUR 3P40)

Exploration of 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.*

Prerequisite: RECL 2P10 or permission of the instructor.

#### RECL 3P42

##### **Leisure and Ethnicity**

Theoretical aspects of Canada's ethnic groups within the recreation and leisure context. Practical considerations for recreation and leisure services in Canada's multicultural mosaic.

*Lectures, seminar, 3 hours per week.*

Prerequisite: RECL 1P92 (2P02).

#### RECL 3P43

##### **Women and Leisure**

(also offered as WISE 3P43)

Feminist critique of leisure theory. Women's leisure explored from an ecological perspective. The ways that women's leisure influences and is influenced by the various domains of their environment (social, political, cultural, physical, historical, psychological, and biological).

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P11 or permission of the instructor.

#### RECL 3P50

##### **Entrepreneurship in Recreation Service Organizations**

An understanding of the 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. Intrapreneurship as it relates to the management of recreation service organizations is also explored.

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P10.

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.*

Prerequisite: RECL 1P96 (2P06) or 1P98 (2P08) 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.*

Prerequisite: RECL 2P08 (1P98).

Completion of this course will replace previous assigned grade in RECL (TOUR) 3V68.

#### 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 1P98 (2P08).

#### 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 3Q07

##### **Quantitative Analysis**

(also offered as TOUR 3Q07)

Quantitative means of understanding, evaluating and interpreting statistical 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 HLST 3P07, 3Q07, PHED 3P08, 3Q07, PEKN 3P08, RECL 3P07, SPMA 3P07, 3Q07 and TOUR 3P07.

#### RECL 3Q17

##### **Qualitative Approaches to Inquiry**

(also offered as TOUR 3Q17)

Theories, approaches, designs, methods and procedures for conducting evaluative analyses.

*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 HLST 3P17, 3Q17, PHED 3P18, 3Q17, PEKN 3P18, RECL 3P17, SPMA 3P17, 3Q17 and TOUR 3P17.

#### RECL 3V50-3V99

##### **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 with a minimum 70 percent major average and a minimum 60 percent non-major average. Consult the department regarding permission to register.

#### RECL 4F04

##### **Leisure and Lifestyle Benefits**

Personal, social, economic and environmental benefits of incorporating leisure into lifestyle changes.

*Seminar, 3 hours per week.*

Restriction: open to RECL majors with approval to year 4 (honours).

#### RECL 4F05

##### **Field Work Project**

(also offered as TOUR 4F05)

Practical experience through placement in community recreation or tourism agencies which may be government funded or privately owned.



## RECREATION AND LEISURE STUDIES

*Seminar, field work, 3 hours per week.*

Restriction: open to RECL and TOUR majors with approval to year 4 (honours).

### RECL 4F07

#### Research Project

(also offered as TOUR 4F07)

Development of appropriate and relevant research designs in recreation and leisure studies.

*Lectures, 3 hours per week.*

Restriction: open to RECL and TOUR 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.

### 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 (honours).

Completion of this course will replace previous assigned grade in RECL 4F01.

### RECL 4P02

#### Senior Seminar in Inclusive and Therapeutic Recreation

Philosophical and ethical issues related to inclusive and therapeutic recreation.

*Lectures, 3 hours per week.*

Restriction: open to RECL majors with approval to year 4 (honours).

Prerequisite: RECL 2P32 or 2P42.

### 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 approval to year 4 (honours).

Prerequisite: RECL 3P06.

### RECL 4P11

#### 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 (honours).

### RECL 4P16

#### Advanced Wilderness Leadership

Theoretical and practical approaches to outdoor recreation in a wilderness setting.

Applications of normative ethical theory, minimum impact camping, leadership theory, and trip planning.

*Field trip, seven days; pre-trip session, two days.*

Restriction: open to RECL majors with approval to year 4 (honours) and permission of the instructor.

Prerequisite: RECL 2P16 and three of RECL 2P96, 3P06, 3P26, 3P36, 3P66.

Note: students must register with the instructor or the department by the last day of classes of the preceding winter term.

Field experience fee; consult the department.

## Russian

*This course offering is co-ordinated  
by the Department of Modern Languages,  
Literatures and Cultures.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

RUSS 1F00

**(Russian Introductory)**

Development of the four basic skills in language proficiency (reading, writing, speaking and comprehension).

*Lectures, language lab, 4 hours per week.*

## Science

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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

#### 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.

#### SCIE 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. Co-ordinated through the Faculty of Education. 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.

#### SCIE 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/BEd majors with a minimum of 9.0 overall credits.

Note: co-ordinated through the Faculty of Education. School-based practicum is required. For additional information contact the Pre-service Department, Faculty of Education.

### CO-OP COURSES

#### 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.

## Sociology

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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 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.

Prerequisite: SOCI 1F90.

#### SOCI 2P11

##### Introduction to Research Methods

Research techniques employed by sociologists, and the formulation of research designs appropriate to various kinds of intellectual problems in the social sciences, including the relationship between social theory and social research, the logic of research design, fundamental techniques of data collection and ethical issues in social research.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in SOCI 2F10.

#### 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 the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in SOCI 3P11.

#### 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 majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in SOCI 2F10.

#### SOCI 2P21

##### The Family

(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 majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or WISE 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHYS 3P38 and SOCI (WISE) 2F21.

#### SOCI 2P22

##### Education and Society

Social analysis of Canadian educational institutions emphasizing the influence of society on organizational structure, curriculum and goals; the relationship of education to other aspects of Canadian society.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

#### SOCI 2P32

##### The Sociology of Work

(also offered as LABR 2P32)

Understanding changes in the organization of work and the composition of the workforce with emphasis on the Niagara Peninsula. Topics include unionization, management strategies, pay equity and employment equity, the international division of labour and other current issues in the Canadian labour movement.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) and LABR majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or LABR 1P91 and 1P92 or permission of the instructor.

#### SOCI 2P33

##### Deviance and Moral Regulation

Various theoretical models used in the sociological study of deviance and moral regulation; a variety of criminal and non-criminal forms of deviance and moral regulation and relationships between the regulation of deviance and power.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

#### SOCI 2P34

##### Trade Unions

(also offered as LABR 2P34)

Interdisciplinary approach to the study of trade unions. Economic, political and

## SOCIOLOGY

sociological understanding of the role of trade unions in society. May include an international comparative perspective.  
*Lectures, seminar, 3 hours per week.*  
Prerequisite: LABR 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 CHYS BA/BEEd and CHYS (single or combined) majors until date specified in BIRT Guide.  
Prerequisites: SOCI 1F90 and CHYS 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 the BIRT guide.  
Prerequisite: SOCI 1F90 or permission of the instructor.

### 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 the BIRT guide.

Prerequisite: SOCI 1F90 or COMM 1F90 or permission of the instructor.  
Completion of this course will replace previous assigned grade in RECL 3P14.

### 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 the BIRT guide.  
Prerequisite: SOCI 1F90 or permission of the instructor.

### 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 the BIRT guide.  
Prerequisites: SOCI 1F90 and 2P61 or permission of the instructor.

### SOCI 2P71 **Social Class and Social Conflict**

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) majors until date specified in the BIRT guide.  
Prerequisite: SOCI 1F90 or permission of the instructor.

### SOCI 2P73 **Globalization, Inequality and New World Disorders**

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) majors until date specified in the BIRT guide.  
Prerequisite: SOCI 1F90 or permission of the instructor.

### SOCI 2P82 **Introduction to Anthropology**

Social and cultural life from an anthropological perspective. Exploration of the scope and nature of the discipline through the study of selected cases drawn largely from non-Western, technologically simple communities.

*Lectures, seminar, 3 hours per week.*  
Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

### SOCI 2P83 **Social Anthropology**

Concepts such as kinship and marriage and theories underlying the comparative study of social institutions.

*Lectures, seminar, 3 hours per week.*  
Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

### 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.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in SOCI 2V85.

#### SOCI 2P86

##### **Women in the Economy**

(also offered as 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, the 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: open to WISE majors until date specified in the BIRT guide. Students must have a minimum of 4.0 credits.

Note: major credit will not be granted to Economics majors.

#### 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.*

Restriction: open to WISE majors until date specified in BIRT guide. On and after that date open to SOCI (single or combined) and WISE majors until date specified in BIRT guide.

Prerequisite: WISE 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2F90.

#### SOCI 2P96

##### **Global Issues for Women in Under-Resourced Nations**

(also offered as WISE 2P96)

Diverse experiences of women and girls in under-resourced nations. Selection of social, political, economic and cultural issues vary. Topics may include war zones, sustainable economies, family planning, global restructuring, legacy of colonial traditions, activist movements and socio-cultural traditions, resistance strategies and policy proposals.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE majors until date specified in BIRT guide. On and after that date open to SOCI (single or combined) and WISE majors until date specified in BIRT guide.

Prerequisite: WISE 2P90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2F90.

#### SOCI 2P99

##### **Canadian Women in a Global Context**

(also offered as 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.*

Restriction: open to WISE majors until date specified in BIRT guide. On and after that date open to SOCI (single or combined) and WISE majors until date specified in BIRT guide.

Prerequisite: WISE 2P90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2F90.

#### 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, mothering roles. Class, cultural and racial differences in mothering and motherhood.

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 the BIRT guide.

#### SOCI 2V90-2V99

##### **Directed Studies**

Guided readings on a particular topic not covered in the department's regular course offerings.

*Seminar, 3 hours per week.*

Restriction: permission of the instructor.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial.

#### 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 BIRT guide.

Prerequisite: SOCI 1F90.

Completion of this course will replace previous assigned grade in SOCI 2F01 or 2P01.

#### SOCI 3P01

##### **Contemporary Social Theory**

Major contemporary theories of society including structural functionalism, symbolic interactionism, Marxist and neo-Marxist and feminist theories; their 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 BIRT guide.

Prerequisite: SOCI 3P00 or permission of the instructor.

## SOCIOLOGY

Completion of this course will replace previous assigned grade in SOCI 3F01 or 2P02.

### SOCI 3P12

#### **Applied Quantitative Data Analysis**

Advanced quantitative methods of data analysis with a focus 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 BIRT guide.

Prerequisites: SOCI 1F90, 2P11 and 2P13 (2F10) or permission of the instructor.

### SOCI 3P16

#### **Mass Media**

(also offered as COMM 3P16 and PCUL 3P16)

Introduction to methods of media analysis. Comparison of theoretical and methodological approaches to mass media content, structures, institutions and audiences. Analysis of relations among media, culture and society with reference to Canadian examples.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined), COMM (single or combined) and PCUL (single or combined) majors until date specified in the BIRT guide.

Prerequisites: one of SOCI 2P11 and 2P13 (2F10), COMM 2F50, 2P21 or permission of the instructor.

### 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 the BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or CHSC 1F90 or permission of the instructor.

### 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 the BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or CHSC 1F90 or permission of the instructor.

### SOCI 3P30

#### **Sociology of Women and Work**

(also offered as LABR 3P30 and WISE 3P30)

Quantitative and qualitative research exploring the societal significance and implications of the change in women's participation in paid employment and domestic labour in this century. Topics include the ghettoization of the female labour force, women in professional and non-traditional occupations, micro technology, part-time work and unionization.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined), LABR and WISE majors until date specified in the BIRT guide.

Prerequisite: one of SOCI 1F90, WISE 1F90, LABR 1P91 and 1P92 or permission of the instructor.

### 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. The 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 the BIRT guide.

Prerequisite: SOCI 1F90 or LABR 1P91 and 1P92 or permission of the instructor.

### SOCI 3P33

#### **Law and Society**

(also offered as WISE 3P33)

Sociological theories of law, Canada's legal institutions, the Charter of Rights and Freedoms, feminist jurisprudence and critical race studies. Relationships between Canadian law and Canadian social structure and institutions.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) and WISE majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or WISE 1F90 or permission of the instructor.

### 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 the BIRT guide.

Prerequisite: SOCI 1F90 or LABR 1P91 and 1P92 or permission of the instructor.

### SOCI 3P36

#### **Critical Issues in Contemporary Society**

Social problems in advanced industrial societies and Canada in particular. Focus on social problems stemming from economic and political crises. Topics may include unemployment, regionalism, ethnic/racial conflict, sovereignty, nationalism, concentrated economic power, and state and market. Proposed strategies of remedial social change.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

### 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 the BIRT guide.

Prerequisite: SOCI 1F90 or 2P82 or permission of the instructor.

#### SOCI 3P47

##### **Race and Ethnicity**

Relations among ethnic groups in various parts of the world as examples of the ways in which physical, social and cultural differences are used to justify intergroup hostility, prejudice and discrimination. Understanding the nature of ethnic relations in Canada through topics such as multiculturalism, racism, immigration policy and the maintenance of ethnic identity.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or 2P82 or permission of the instructor.

#### 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 majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or WISE 1F90 or permission of the instructor.

#### 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 3P57

##### **Gerontology and the Aging Process**

Humanistic, social, historical and cross-cultural perspectives on gerontology and aging. Topics include examination of conceptual and methodological approaches to studying aging; surveys of programs and prospects for the elderly; cultural, social and personal images of aging; the impact of social, psychological and biological processes affecting aging and the elderly within communities; social planning for the elderly.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or permission of the instructor.

#### 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 the BIRT guide.

Prerequisite: SOCI 2P61 or permission of the instructor.

#### 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 the BIRT guide.

Prerequisites: SOCI 1F90, 2P61 and 2P62 or permission of the instructor

#### SOCI 3P66

##### **Social Movements**

(also offered as LABR 3P66)

General 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 the BIRT guide.

Prerequisite: SOCI 1F90 or LABR 1P91 and 1P92 or permission of the instructor.

#### 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 which 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 (CHST) (single or combined) majors until date specified in the BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SOCI 1F90 or permission of the instructor.

#### SOCI 3P92

##### **Gender and Sexuality in Childhood and Youth**

(also offered as CHYS 3P92 and WISE 3P92)

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 in such processes.

*Lectures, seminar, 3 hours per week.*

Restriction: open to CHYS BA/BEEd, CHYS (CHST) (single or combined), SOCI (single or combined) and WISE majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.



## SOCIOLOGY

Prerequisite: one of SOCI 2P11 and 2P13 (2F10), CHYS (CHST) 2P38, WISE 2P90 (2F90), 2P91.

Completion of this course will replace previous assigned grade in CHST 3P92.

### 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 (2F10), COMM 2F50, 2P21 or permission of the instructor.

### SOCI 3P99

#### Internet Research for the Social Sciences

Primary components of Internet research: determination of appropriate data, search for sites containing these data and methods of collection and processing Web data.

*Lectures, lab, tutorial, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 2P11 and 2P13 (2F10) or permission of the instructor.

Completion of this course will replace previous assigned grade in SOCI 3V99.

### 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 the BIRT guide.

### SOCI 3V80-3V89

#### Selected Topics in Sociology

Selected issues in sociology.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide.

### SOCI 3V90-3V99

#### Directed Studies

Guided readings on a topic not covered in the department's regular course offerings.

*Seminar, 3 hours per week.*

Restriction: permission of the instructor.

Note: topics must be chosen in consultation with a faculty member willing to supervise.

### 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 or permission of the department.

Prerequisites: SOCI 3P01 (2P02 or 3F01) and 3P12.

Co-requisite: SOCI 4P01 (4F01).

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. The 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 or permission of the department.

Prerequisites: SOCI 3P01 (2P02 or 3F01) and 3P12.

### SOCI 4P01

#### Honours Seminar

Examination and assessment of problems in students' current research.

*Seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors with a minimum 80 percent major average or permission of the department.

Prerequisites: SOCI 3P01 (2P02 or 3F01) and 3P12.

Co-requisite: SOCI 4F90.

Completion of this course will replace previous assigned grade in SOCI 4F01.

### 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 the BIRT guide.

Prerequisites: SOCI 3P00 (2F01 or 2P01) and 3P01 (2P02 or 3F01).

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 the BIRT guide.

Prerequisite: SOCI 3P12 or permission of the instructor.

### 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, 4 hours per week.*

Restriction: open to SOCI (single or combined) majors with approval to year 4 (honours).

Prerequisite: SOCI 3P12 or permission of the instructor.

Completion of this course will replace previous assigned grade in SOCI 4F10.

### SOCI 4P15

#### Advanced Critical Analysis I

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 the BIRT guide. Students must have approval to year 4 (honours).

## SOCI 4P16

**Advanced Critical Analysis II**

Focus on the particular research project of the instructor. Topics include research design, critical literature review, theoretical assumptions, data collection, analysis and implications.

*Seminar, 3 hours per week.*

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

## SOCI 4P23

**Research on Popular Culture**

(also offered as COMM 4P23 and PCUL 4P23)

Advanced research seminar on the relations between mass media and popular culture. Topics vary with the interests of instructor and students.

*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 3P16 (2P23) or COMM 2P20 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 sub disciplines. 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 the BIRT guide. Students must have approval to year 4 (honours).

Prerequisite: SOCI 3P26 or 3P27 or permission of the instructor.

## 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 majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or LABR credits or permission of the instructor.

Note: SOCI 2P32 recommended.

## SOCI 4P33

**Advanced Seminar in Law and Society**

(also offered as WISE 4P33)

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) and WISE majors, and SOCI certificate students until date specified in the BIRT guide. Students must have approval to year 4 (honours). SOCI certificate students must have a minimum 70 percent major average.

Prerequisite: SOCI 3P33 or permission of the instructor.

## 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 (2P91), 3P91, 3Q93 or 3Q94.

## SOCI 4P41

**Advanced Seminar in Social Policy**

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) majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: SOCI 3P00 (2P01 or 2F01) and 3P01 (2P02 or 3F01), or permission of the instructor.

## 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 majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or WISE credits or permission of the instructor.

Note: SOCI 3P51 recommended.

## 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 the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI credits or permission of the instructor.

Note: SOCI 3P00 (2P01 or 2F01) or 3P01 (2P02 or 3F01) recommended.

## SOCI 4P61

**Advanced Seminar in Criminology**

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 and SOCI certificate students until date specified in the BIRT guide. Students must have approval to year 4 (honours). SOCI certificate students must have a minimum 70 percent major average.

## SOCIOLOGY

Prerequisites: SOCI 2P61, 2P62 and 3P61 or permission of the instructor.

### SOCI 4P62

#### **Advanced Seminar in Deviance 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 and SOCI certificate students until date specified in the BIRT guide. Students must have approval to year 4 (honours). SOCI certificate students must have a minimum 70 percent major average.

Prerequisites: SOCI 2P33 and one credit from SOCI 2P61, 2P62, 3P33 or permission of the instructor.

### 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 the BIRT guide. Students must have approval to year 4 (honours).

### 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 with emphasis on 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 the BIRT guide. Students must have approval to year 4 (honours).

### SOCI 4V80-4V89

#### **Special Topics in Sociology**

Selected issues in sociology. Course content will vary, depending upon the interests of instructors and students.

Restriction: open to SOCI (single or combined) majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

### SOCI 4V90-4V99

#### **Directed Studies**

Guided readings on a topic not covered in the department's regular course offerings.

*Seminar, 3 hours per week.*

Restriction: permission of the instructor.

Note: topics must be chosen in consultation with a faculty member willing to supervise the tutorial.

## Spanish

*These course offerings are co-ordinated by the Department of Modern Languages, Literatures and Cultures.*

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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, computer/language lab, 4 hours per week.*

#### SPAN 1F90

##### Intermediate Spanish

Review of Spanish grammar. Composition and oral practice. Introduction to Spanish literature, cultural subjects and topics of current interest. *Lectures, seminar, computer/language lab, 4 hours per week.*  
Prerequisite: SPAN 1F00 or two or more years of high school Spanish or permission of the instructor.

#### SPAN 1P10

##### Business Spanish

Introduction to commercial, industrial and technical Spanish. Practical writing skills for business in the Spanish-speaking world, with emphasis on Latin America. *Lectures, seminar, 3 hours per week.*  
Prerequisite: SPAN 1F00 or permission of the instructor.

#### SPAN 1P95

##### Hispanic Culture

The creation of a new culture founded on indigenous, 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. Note: given in English. Course offered online.

#### SPAN 2F10

##### Literary Genres and Essay Writing

Intensive language analysis, oral and written practice to develop writing styles and techniques. Exploration of periods of Hispanic cultures.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 1F90 or permission of the instructor.

#### SPAN 2P10

##### Latin American Culture

Survey of social history through text and images; pre-Columbian cultures; cultural hybridization and colonization to the present day.

*Lectures, seminar, 3 hours per week.*

Note: guided readings in English and Spanish.

#### SPAN 2P11

##### Iberian Culture

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: music and guided readings in English and Spanish.

#### SPAN 2P82

##### Contemporary Hispanic Film

(also offered as FILM 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: given in English. Knowledge of Spanish is not necessary. Spanish majors complete written assignments and exams in Spanish.

#### SPAN 2V90-2V99

##### History in its Environment in a Spanish Region

(also offered as HIST 2V90-2V99)

Study of the history of a country or region in its own cultural and geographical

context. Background preparation research preceding an intensive study period on location.

Restriction: permission of the Department.

Note: given in English. Students are responsible for travel, accommodation and other expenses.

#### SPAN 2V91

##### 2002-2003: Central American Issues (also offered as HIST 2V91)

Topics may include indigenous cultures, collapse of the Central American Republic, Manifest Destiny, the Monroe Doctrine, revolution, Liberation Theology and plantation agriculture.

Note: given in English. Students are responsible for travel, accommodations and other expenses. For further details, see the History Department home page.

#### SPAN 3P64

##### Caribbean Narratives

Major novels, popular music, painting and poetry. Afro-Caribbean poetry of Nicolás Guillén and paintings of Wilfredo Lam will be points of departure to discuss oral traditions and transculturation. Rewriting of the history, the neo-baroque and the representations of gender, ethnicity and class in the works of Carpentier, Sarduy, Rosario Ferré, Reinaldo Arenas and others.

*Lectures, 3 hours per week.*

Prerequisite: SPAN 2F00 or permission of the instructor.

#### SPAN 3P90

##### Advanced Grammar and Communication

Syntactic analysis and principles involved. Concepts of semantics and style. Applications to advanced writing and oral practice of the Spanish language.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 2F00 or permission of the instructor.

#### SPAN 3P94

##### Iberian Narrative

Development of Spanish and Portuguese narrative from postwar social realism to the present. Authors may include Cela, Matute, Puértolas, Muñoz Molina, Montero and Saramago.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 2F00 or permission of the instructor.

## SPANISH

### 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, Cortázar, Rulfo, García Márquez, Peri Rossi, Lispector, Castellanos and Mastreta.

*Lectures, 3 hours per week.*

Prerequisite: SPAN 2F00 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. Authors may include Bécquer, Pardo Bazán, Pérez Galdós, Generation of 98.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 2F00 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. Texts may include the chronicles of Poniatowska, Monsiváis, Galeano, Zapatista Liberation Army.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 2F00 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, the picaresque, the birth of the modern novel. Film adaptations of key texts to aid comprehension and to consider performative culture.

*Lectures, 3 hours per week.*

Prerequisite: SPAN 2F00 or permission of the instructor.

Completion of this course will replace previous assigned grade in SPAN 3P92 and 3P93.

### SPAN 3Q94

#### Twentieth-Century Latin American Revolution

(also offered as HIST 3P94)

The 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.*

Note: given in English.

### SPAN 4P01

#### Latin American Women's Perspectives

(also offered as WISE 4P01)

The 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 Poniatowska, Kahlo, Menchú, Lispector, Novaro and Parra.

*Lectures, seminar, 3 hours per week.*

Prerequisite: SPAN 2F00 or 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.

### SPAN 4V60-4V69

#### Special Research Topics in Spanish Literature

Course content will vary, depending upon the interests of instructors and students.

*Lectures, 3 hours per week.*

Prerequisites: two SPAN credits numbered 3(alpha)00 or above.

### SPAN 4V60

#### 2002-2003: Women in Hispanic Literature: Witches, Vampires and Virgins

Depiction of women as monstrous or deviant. Authors include Carmen Boulosa, Alejandra Pizarnik and Rosario Ferré. Feminist literary theory of alterity

(otherness).

*Lectures, seminar, 3 hours per week.*

Prerequisite: one SPAN credit numbered 3(alpha)00 or above.

## Sport Management

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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 1F90

##### Introduction to Sport Management

Principles of management applied to sport and sport related organizations. Topics may include sport industries, politics and sport, human resource management, sport marketing and sponsorship, fiscal and facility management, sport law and contemporary issues.

*Lectures, seminar, 3 hours per week, plus field experience.*

Note: a field experience fee may be charged.

#### SPMA 1P99

##### Foundations of Applied Health Science Inquiry

(also offered as CHSC 1P99, PEKN 1P99, RECL 1P99 and TOUR 1P99)

Multidisciplinary approaches to critical inquiry in applied health science.

Introduction to investigative methods of research and critical analysis in the fields of health, sport, recreation and physical activity.

*Lectures, alternating weeks; seminar, alternating weeks; 3 hours per week.*

Restriction: open to students admitted to SPMA, CHSC, CHLH, HLSC, BPhEd/BEEd, PEKI, PEKN, RECL, TOUR and WKHL.

Completion of this course will replace previous assigned grade in CHSC 1P90 and PHED 1P99.

#### 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 BIRT guide.

Prerequisite: SPMA 1F90.

#### 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 BIRT guide.

Prerequisite: SPMA 1F90 (minimum 60 percent).

#### 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 until date specified in BIRT guide.

Prerequisite: SPMA 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.

Prerequisite: SPMA 1P99 or COSC 1P95.

Completion of this course will replace previous assigned grade in CHSC 2Q07, HLST 2P07, PHED 2P08, 2Q07, RECL 2P07, SPMA 2P07, 2Q07 and TOUR 2P07.

#### 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 COMM (single or combined) PCUL and SPMA majors with a minimum of 5.0 overall credits or permission of the instructor.

#### SPMA 2P96

##### Sport Law

Introduction to sport-related legal issues and concepts. Topics may include negligence and liability, risk management, procedural fairness in decision-making, discrimination, intellectual property (copyright, trademark and patents), contract and employment law, competition law.

*Lectures, seminar, 3 hours per week.*

Restriction: open to SPMA, CHSC and HLSC majors until date specified in BIRT guide.

Prerequisite: SPMA 1F90 (minimum 60 percent).

#### SPMA 2P97

##### Facility Management

Sport facility theory and operation. Emphasis on planning, assessment and feasibility functions in private and public facilities.

*Lectures, 3 hours per week, plus field experiences.*

Restriction: open to SPMA majors until date specified in BIRT guide.

Prerequisite: SPMA 1F90 (minimum 60 percent).

Note: a field experience fee may be charged.

Completion of this course will replace previous assigned grade in SPMA 3P96.

#### SPMA 3P02

##### Sport Management Field Work

Placement in an internal Brock University sport or sport-related organization.

*Seminar, 2 hours per week, plus field work.*

Restriction: open to SPMA majors with a minimum of 8.0 overall credits and permission of the Instructor. Not open to SPMA Co-op students.

Prerequisites: SPMA 2P05 and 2P06.

Note: students repeating this course are not guaranteed a placement.

## SPORT MANAGEMENT

### 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, seminar, 3 hours per week.*

Restriction: open to SPMA majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: SPMA 2P05 and 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.

Prerequisite: SPMA 2P07.

Completion of this course will replace previous assigned grade in CHSC 3Q07, HLST 3P07, PHED 3P08, 3Q07, PEKN 3P08, RECL 3P07, 3Q07, SPMA 3Q07, TOUR 3P07 and 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, 3 hours per week.*

Restriction: open to SPMA majors until date specified in BIRT guide. Students must have a minimum of 8.0 credits.

Prerequisites: SPMA 2P97.

Completion of this course will replace previous assigned grade in SPMA 3F01.

### 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.

Prerequisite: SPMA 2P07.

Completion of this course will replace previous assigned grade in CHSC 3Q17,

HLST 3P17, PHED 3P18, 3Q17, PEKN 3P18, RECL 3P17, 3Q17, SPMA 3Q17, TOUR 3P17 and 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 BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: SPMA 2P05.

Completion of this course will replace previous assigned grade in SPMA 3P20.

### 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, seminar, 3 hours per week, plus field experiences.*

Restriction: open to SPMA majors until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: SPMA 2P05 and 2P06.

Note: a field experience fee may be charged.

Completion of this course will replace previous assigned grade in SPMA 3V90.

### SPMA 3P95

#### **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 BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: SPMA 1F90 (minimum 60 percent).

### 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 until date specified in BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisites: SPMA 1F90 (minimum 60 percent).

Completion of this course will replace previous assigned grade in SPMA 3P96.

### 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 with a minimum of 8.0 overall credits.

### SPMA 4F02

#### **Sport Management Internship**

Advanced placement in a major sport or sport-related organization.

*Seminar, 3 hours per week; plus field work.*

Restriction: open to SPMA majors with approval to year 4 (honours) and permission of the Instructor. Not open to SPMA Co-op students.

Note: students repeating this course are not guaranteed a placement.

### SPMA 4P04

#### **Honours Research Seminar: Proposal Development**

Research assumptions, methodologies and methods in sport management. Group honours research project including

identification of a research problem, review of literature and methodology, an ethics application, and a research proposal.

*Seminar, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

Co-requisite: SPMA 4P05.

Completion of this course will replace previous assigned grade in SPMA 4F05.

#### SPMA 4P05

##### **Honours Research Seminar: Thesis Project**

Research data management, analysis techniques, research applications, and report writing formats. Group honours research project including data collection, management and analysis.

*Seminar, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

Co-requisite: SPMA 4P04.

Note: SPMA 4P05 is a continuation of SPMA 4P04. Students conduct the research from the proposal completed in SPMA 4P04.

Completion of this course will replace previous assigned grade in SPMA 4F05.

#### SPMA 4P06

##### **The Unique 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 marketing exchange process. Topics include the acquisition, pricing, assessment and evaluation functions 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 a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in SPMA (PHED) 4P95.

#### SPMA 4P09

##### **Sport Organization Leadership in the 21st Century**

Leadership skills in sport management. Strategic approaches to recruitment, hiring, training, career development, and other contemporary processes within the organizational setting.

*Lectures, 3 hours per week.*

Restriction: open to SPMA majors with a minimum of 12.0 overall credits and approval to year 4 (honours).

Prerequisite: SPMA 3P21 (minimum 60 percent).

#### 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 until date specified in BIRT guide.

Prerequisites: SPMA 2P06, 2P05 and 3P06.

#### SPMA 4P15

##### **Sport Marketing Research**

Unique dimensions of sport marketing research. Sport consumer and marketplace research within a sport industry; analysis and presentation of the findings and implications for sport marketing. Topics may include sport marketing research related to sport products, sport communication and advertising, sport market segmentation and sport media.

*Seminar, 3 hours per week.*

Restriction: open to SPMA majors with approval to year 4 (honours).

*Seminar, 3 hours per week.*

Prerequisite: SPMA 3P95.

#### 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 until date specified in BIRT guide. Students must have a minimum of 12.0 overall credits.

#### SPMA 4V90

**2002-2003: Introduction to Alternate Dispute Resolution (ADR) in Sport**  
Overview of ADR techniques in use in Canada today; analysis and application of these techniques.

*Seminar, 3 hours per week.*

Prerequisite: SPMA 1F90, 2P96 or approval of the Instructor.

### CO-OP COURSES

#### SPMA 0N01

##### **Co-op Work Placement I**

First co-op work placement (4 months) with an approved employer.

Restriction: open to SPMA Co-op students.

#### SPMA 0N02

##### **Co-op Work Placement II**

Second co-op work placement (4 months) with an approved employer.

Restriction: open to SPMA Co-op students.

#### 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.

#### SPMA 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, resume preparation and interview skills preparation.

*Lectures, presentations, site visits, 2 hours per week.*

Restriction: open to SPMA Co-op students.



# Tourism

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

## 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 Recreation and Leisure (also offered as RECL 1P91)

Nature, significance and theories of recreation and leisure, recreation participation, opportunities for recreation involvement and leisure experiences, recreation resource management, delivery and facilitation structures.

*Lectures, seminar, 3 hours per week.*

Completion of this course will replace previous assigned grade in RECL 1F91.

### 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 (RECL 1F91) or permission of instructor.

Completion of this course will replace previous assigned grade in TOUR 2P08.

### TOUR 1P99

#### Foundations of Applied Health Science Inquiry

(also offered as CHSC 1P99, PEKN 1P99, RECL 1P99 and SPMA 1P99)

Multidisciplinary approaches to critical inquiry in applied health science.

Introduction to investigative methods of research and critical analysis in the fields of health, sport, recreation and physical activity.

*Lectures, alternating weeks; seminar, alternating weeks; 3 hours per week.*

Restriction: open to students admitted to TOUR, CHSC, CHLH, HLSC, BPhEd/BEEd, PEKI, PEKN, RECL, SPMA and WKHL.

Completion of this course will replace previous assigned grade in CHSC 1P90 and PHED 1P99.

### 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: TOUR 1P99 or COSC 1P95 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHSC 2Q07, HLST 2P07, PHED 2P08, PHED 2Q07, SPMA 2P07 and 2Q07.

### TOUR 2P11

#### The Social Psychology of Leisure and Recreation

(also offered as RECL 2P11)

The social psychological 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 students with a minimum 5.0 overall credits or permission of the instructor.

Prerequisite: TOUR 1P91 (RECL 1F91) or CHSC (HLST) 1F90.

### TOUR 2P18

#### Introduction to the Tourism Industry (also offered as RECL 2P18)

Foundations of tourism service delivery systems. The interactive relationships among public, quasi-public and private travel tourism systems in Canada and around the world.

*Lectures, seminar, 3 hours per week.*

Prerequisite: TOUR 1P98 (2P08) or permission of the instructor.

### TOUR 2P41

#### Economics of Tourism and Leisure Services

(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 2P92

#### Conservation Planning

(also offered as ENVI 2P92)

Application of ecological theory to environmental planning for conservation of species and ecosystems in a world dominated by human activities. Attitudes, values and approaches: conservation, preservation, utilitarianism, stewardship and management. Co-existence of humans and wild life in parks, reserves, zoos and productive landscapes. Combining conservation with development. Conservation programs, policies and legislation.

*Lectures, seminar, workshop, 3 hours per week.*

Prerequisites: ENVI (ENVP) 1P90, 1P91 and MATH 1P98 or permission of instructor.

Completion of this course will replace previous assigned grade in ENVP 2P92 and 3P42.

### 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 (ENVP) 1P90 and 1P91 or INTL 1F90 (1P95) and MATH 1P98 or permission of instructor.

Completion of this course will replace previous assigned grade in ENVP 2P94 and 3P44.

#### TOUR 3P05

##### **Leisure Services Field Work** (also offered as RECL 3P05)

Practical experiences in specific leisure service agencies. Leadership, programming and community resource development and placement in a community recreation or tourism setting.

*Seminar, field work, 3 hours per week.*

Restriction: open to TOUR and RECL majors with a minimum 60 percent major average and a minimum of 9.5 overall credits.

#### 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.*

Prerequisite: TOUR 1P98 (2P08).

#### TOUR 3P28

##### **Interactive Travel Distribution Channels** (also offered as RECL 3P28)

The nature and scope of interactive market distribution channels for travel products and services including the Internet and global distribution systems.

*Lectures, 3 hours per week.*

Prerequisite: TOUR 1P98 (2P08).

#### TOUR 3P38

##### **Tourism and Hospitality Management** (also offered as RECL 3P38)

Investigation of the theories, principles and practices in hospitality and tourism management. Analyses of globalization of competitive environments, corporate strategies for small firms to multinational corporations and visitor management techniques.

*Lectures, 3 hours per week.*

Prerequisite: TOUR 1P98 (2P08).

#### TOUR 3P40

##### **Marketing in Tourism and Recreation Service Organizations** (also offered as RECL 3P40)

Exploration of 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.*

Prerequisite: TOUR 2P10 or permission of the instructor.

#### 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 majors, ENVI (ENVP) (single or combined) majors, ENVI (ENVP) certificate students and WISE majors.

Prerequisites: one of ENVI (ENVP) 1P90, 1P91, WISE 2P90 (2F90), 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENVP 3P49.

#### 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, 4 hours per week.*

Prerequisite: TOUR 1P98 (2P08) or GEOG 1F90.

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.*

Prerequisite: TOUR 1P98 (2P08) or RECL 1P96 (2P06) 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.*

Prerequisite: RECL 2P08 (1P98).

Completion of this course will replace previous assigned grade in RECL (TOUR) 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 1P98 (2P08).

#### TOUR 3P88

##### **Tourism Field Course**

Investigations into tourism through collection and analysis of field data.

*Lectures, seminar, fieldwork.*

Prerequisites: TOUR 1P98 (2P08) and 2P07; TOUR 3Q07 (3P07) or 3Q17 (3P17) 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 3Q07

##### **Quantitative Analysis** (also offered as RECL 3Q07)

Quantitative means of understanding, evaluating and interpreting statistical in-

## TOURISM

formation.

*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 HLST 3P07, CHSC 3Q07, PEKN 3P08, PHED 3P08, 3Q07, RECL 3P07, SPMA 3P07, 3Q07 and TOUR 3P07.

### TOUR 3Q17

#### Qualitative Analysis

(also offered as RECL 3Q17)

Theories, approaches, designs, methods and procedures for conducting evaluative analyses.

*Lectures, seminar, 3 hours per week.*

Restriction: open to TOUR, and RECL majors.

Prerequisite: TOUR 2P07.

Completion of this course will replace previous assigned grade in HLST 3P17, CHSC 3Q17, PEKN 3P18, PHED 3P18, 3Q17, RECL 3P17, SPMA 3P17, 3Q17 and TOUR 3P17.

### TOUR 3V10-3V99

#### Variable Topics in Tourism

Specific topics to be selected.

*Lectures, seminar, 3 hours per week.*

### TOUR 4F01

#### Contemporary Issues in Tourism

Issues and trends in tourism management and planning. Economic, social, environmental and political aspects of tourism management and development. Management and planning case studies are examined at local to international levels.

*Lectures, 3 hours per week.*

Restriction: open to TOUR majors.

### TOUR 4F02

#### Honours Thesis

Individual research thesis carried out under the direction of a faculty advisor in a student's area of interest.

*Lectures, 3 hours per week.*

Restriction: open to TOUR majors with a minimum 70 percent major average.

Note: involves submission of detailed written proposal before May 1 prior to entering year 4. Options include a formal thesis, a research journal manuscript or presentation for a research symposium or professional conference.

### TOUR 4F05

#### Field Work Project

(also offered as RECL 4F05)

Practical experience through placement in community recreation and tourism agencies which may be government funded or privately owned.

*Seminar, field work, 3 hours per week.*

Restriction: open to TOUR and RECL majors with approval to year 4 (honours).

### TOUR 4F07

#### Research Project

(also offered as RECL 4F07)

Development of appropriate and relevant research designs in recreation and leisure studies.

*Lectures, 3 hours per week.*

Restriction: open to TOUR and 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.

### TOUR 4F08

#### Destination Planning and Management

Tourism destination planning and management concepts through the use of case studies. Procedures and standards for planning and implementing tourism development in destinations while examining the interrelationship between physical planning and other factors.

*Lectures, 3 hours per week.*

Prerequisite: TOUR 1P98 (2P08) or permission of the instructor.

### TOUR 4P03

#### Directed Project

Development of an applied research project in student's area of interest.

*Lectures, 3 hours per week.*

Prerequisite: TOUR 3Q07 (3P07) or 3Q17 (3P17).

Note: students propose a research problem, review the literature, discuss appropriate methodology, analyze data, recommend solutions and make a formal presentation.

### TOUR 4P21

#### Issues of the Global System

(also offered as ENVI 4P21 and INTL 4P21)

Emphasis on power relationships, cultural patterns, globalisation, and extra-state phenomena such as pollution and disease. Role and possibilities for leadership, with

a view to leadership development.

*Seminar, 3 hours per week.*

Restriction: students must hold a minimum 14.0 overall credits or permission of the Instructor.

Completion of this course will replace previous assigned grade in ENVP 4P21.

## Visual Arts

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### Prerequisites and Restrictions

Students must check to ensure that prerequisites are met. Students may be deregistered, at the request of the instructor, from any course for which prerequisites and/or restrictions have not been met

#### VISA 1F98

**Introduction to the History of Art: from Prehistory to the Present**  
(also offered as GBL5 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.

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 15 students. Materials fee required. Students may 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 15 students. Materials fee required. Students may 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 15 students in studio courses. Materials fee required. Students may 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. Emphasis on multimedia, alternative or marginal practices, current studio trends and the cultural reception of art.

*Lectures, studio work, gallery visits, 5 hours per week.*

Restriction: open to students admitted to VISA, or VISA (single or combined) majors.

Prerequisite: VISA 1P96.

Note: enrolment limited to 15 students. Materials fee required. Students may need additional materials which they must supply.

#### VISA 2F05

**Introduction to Sculpture**

Fundamentals of three-dimensional work: design, construction and formal analysis. Emphasis on modelling techniques and principles of assemblage including mold or form making, casting and fabrication. *Lectures, studio work, 20 hours per week.* Restriction: open to VISA (single or combined) majors until date specified in

BIRT guide.

Note: offered in spring or summer session only. Enrolment limited to 15 students. Materials fee required. Students may 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 with an emphasis on 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, 20 hours per week.*

Restriction: open to VISA (single or combined) majors until date specified in BIRT guide.

Prerequisite: VISA 1P97 (1F96) or permission of the instructor.

Note: offered in spring or summer session only. Enrolment limited to 15 students in studio courses. Materials fee required. Students may 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 projectbased 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 BIRT guide.

Prerequisite: VISA 1P97 (1F96) or COMM 1F90 or permission of the instructor.

Note: Materials fee required. Students may 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

## VISUAL ARTS

site-specific or installation art. Emphasis on 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 (1F96) or permission of the instructor.

Note: enrolment limited to 15 students. Materials fee required. Students may need additional materials which they must supply.

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 2M91

### 2002-2003: Special studies in Studio: Praxis

Studio practice linked to postmodern concepts. Pragmatic, theoretical and discursive approaches. Field trips to contemporary art exhibitions. Directed readings in art and theory.

Restriction: students must have a minimum of 5.0 credits and permission of the instructor.

Note: students will incur additional costs for field trips. Materials fee required. Open to non-majors.

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 (1F92) or 1P97 (1F96) or permission of the instructor.

Note: enrolment limited to 15 students. Materials fee required. Students may 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 15 students. Materials fee required. Students may 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) or ITAL 1F90, or permission of the instructor.

Completion of this course will replace previous assigned grade in ITAL 2P10.

VISA 2P41

### Baroque Art and Architecture

Influence of artists such 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; with an emphasis on 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 1945: 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 GBL 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 GBL 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 with emphasis on compositional structures.

*Lectures, studio work, 5 hours per week.*

Restriction: open to VISA (single or combined) majors.

Prerequisite: VISA 1P94 (1F92).

Note: enrolment limited to 15 students. Materials fee required. Students may 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 15 students. Materials fee required. Students may need additional materials which they must supply.

## 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 15 students. Materials fee required. Students may need additional materials which they must supply.

## 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 must be approved 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 3M90-3M95

**Special Studies in Visual Arts**

Studies that combine theory and studio.

## VISA 3P02

**Painting III**

Personal painting strategies reflecting individual ideas. Writing artist's statements. Readings in contemporary practice.

*Lectures, studio work, 5 hours per week.*

Prerequisite: VISA 2P03 (2F03).

Note: enrolment limited to 15 students. Materials fee required. Students may need additional materials which they must supply.

## VISA 3P03

**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 3P02.

Note: enrolment limited to 15 students. Materials fee required. Students may need additional materials which they must supply.

## VISA 3P05

**The European Avant-Garde: 1905- 1970**  
Contextual analysis of the European and Russian avant-garde movements in art, design and architecture with an emphasis on 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

**The 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

**The 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

**The 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

**The 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.

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### VISA 3P90

#### **Readings in Contemporary Art I: 1970-1990**

Advanced seminar with an emphasis on what constitutes the paradigm shift from Late Modernism to Postmodernism.

*Lectures, seminar, 3 hours per week.*

Prerequisite: VISA 1F98 (1F90) and two credits from VISA 2P50, 2P51, 2P90, 2P91, 3P05, 3P06 or permission of the instructor.

Note: required for all honours students in VISA but open to students with third year standing.

### 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.*

Prerequisite: VISA 3P90.

Note: required for all honours students in VISA but open to students who have a minimum of 9.0 overall credits.

### 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 15 students. Materials fee required. Students may 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 15 students. Materials fee required. Students may need additional materials which they must supply.

### 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. Each student must submit a written project proposal for Program approval before May 1. Honours standing in VISA is required. Materials fee required. Students may need additional materials which they must supply. Students should contact the department for further information.

### 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 must be approved before registration. Honours standing in VISA is required.

### VISA 4M00-4M09

#### **Study in Mediterranean Lands**

(also offered as CLAS 4M00-4M09)

Topographical investigations of ancient sites and monuments. Study tours of the great cities and museums of the Mediterranean world with emphasis on the art and architecture of the Prehistoric, Classical and later periods.

Restriction: permission of the department.

Note: offered in the Summer Session for three or four weeks abroad.

### VISA 4M02

#### **2002-2003: The Gift of Dionysos: Wine in Greek Culture**

Study tour of Greece focussing on the central roles that wine played in the lives and economies of the inhabitants of the

Aegean basin in antiquity and in contemporary society; visits to archaeological sites, museums, vineyards and wineries.

Note: offered in Greece: 4 weeks. Students are expected to pay their own expenses.

### VISA 4P13

#### **The 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 4V32

#### **2002-2003: Political Propaganda in Ancient Art**

Use of art, both public and private, as propoganda: narrative and symbols, metaphor and myth in various media such assculpture, painting, architecture and the minor arts.

## Women's Studies

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

### 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

Gendered character of society and culture from women's perspectives within a variety of feminist theoretical frameworks. Includes issues of violence, equity, class, race, class, sexuality and diversity. May examine religion and science, legal systems, work, health, history, education and popular culture.

*Lectures, seminar, 3 hours per week.*

#### WISE 2P21

##### The Family

(also offered as SOCI 2P21)

Family pattern, 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 and SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: SOCI 1F90 or WISE 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in CHYS 3P38.

#### WISE 2P61

##### Women in the Ancient World

(also offered as CLAS 2P61)

Problems and issues of particular relevance to women in Greek and Roman society. Topics include social, political and legal rights, prostitution, religious duties, marriage and children, birth control and abortion.

*Lectures, seminar, 3 hours per week.*

#### WISE 2P62

##### The Politics of Gender in Archaic and Classical Greece

(also offered as CLAS 2P62)

Social issues of ancient Greece as viewed from a modern perspective. Topics include familial bonding, female and male identity, domestic and civil violence, sexuality and social status, power dynamics within the family and the city-state.

*Lectures, seminar, 3 hours per week.*

#### WISE 2P86

##### Women in the Economy

(also offered as ECON 2P86, LABR 2P86 and SOCI 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- the 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: open to WISE majors until date specified in the BIRT guide. 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.*

Restriction: open to WISE majors until date specified in BIRT guide. On and after that date open to WISE and SOCI (single or combined) majors until date specified in BIRT guide.

Prerequisite: WISE 1F90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 2F90.

#### WISE 2P91

##### The Status of Women: Historical Perspectives

Status of women within Western societies from Neolithic times to 20th-century traditional histories. Feminist and

postcolonial perspectives on the development of feminist consciousness through analysis of lives and literary remains.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or permission of the instructor.

#### WISE 2P92

##### Women in World Literature

Feminist perspectives on representations of women throughout Western literature by men and women. Barriers to women's writings and analyses of current writings in English by women from diverse, often marginalized backgrounds.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or permission of the instructor.

#### WISE 2P93

##### Psychology of Women

(also offered as PSYC 2P93)

Social, personal and political implications of gender. Topics include theoretical perspectives on the study of gender differences, stereotypes, sexuality, biological influences, as well as 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 majors until date specified in BIRT guide.

Prerequisite: PSYC 1F90 or WISE 1F90.

#### WISE 2P94

##### Women Writers to 1900

(also offered as ENGL 2P94)

Prose, poetry and drama by women from the 17th to the 19th century including Anne Bradstreet, Katherine Philips, Lucy Hutchinson, Aphra Behn, Mary Wollstonecraft, Mary Shelley and Charlotte Brontë.

*Lectures, seminar, 3 hours per week.*

Prerequisite: one ENGL credit numbered 1(alpha)90 to 1(alpha)99 or permission of the instructor.

#### WISE 2P95

##### Modern Women Writers

(also offered as ENGL 2P95)

Prose, poetry and drama by women from the mid 19th-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.



## WOMEN'S STUDIES

WISE 2P96

### **Global Issues for Women in Under-Resourced Nations**

(also offered as SOCI 2P96)

Diverse experiences of women and girls in under-resourced nations. Selection of social, political, economic and cultural issues varies. Topics may include war zones, sustainable economies, family planning, global restructuring, legacy of colonial traditions, activist movements and socio-cultural traditions, resistance strategies and policy proposals.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE majors until date specified in BIRT guide. On and after that date open to WISE and SOCI (single or combined) majors until date specified in BIRT guide.

Prerequisite: WISE 2P90 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. 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.

Note: students are required to demonstrate scholarship using feminist frameworks and methodologies.

WISE 2P99

### **Canadian Women in a Global Context**

(also offered as 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.*

Restriction: open to WISE majors until date specified in BIRT guide. On and after that date open to WISE and SOCI (single or combined) majors until date specified in BIRT guide.

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.

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; and feminism in the 1960s and 1970s.

*Lectures, seminar, 3 hours per week.*

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.

WISE 3M00-3M10

### **Special Topics in Women's Studies**

Topics selected on the basis of faculty expertise.

Prerequisite: WISE 2P90 (2F90) or permission of the instructor.

WISE 3P30

### **Sociology of Women and Work**

(also offered as LABR 3P30 and SOCI 3P30)

Quantitative and qualitative research exploring the societal significance and implications of the change in women's participation in paid employment and domestic labour in this century. Topics include the ghettoization of the female labour force, women in professional and non-traditional occupations, microtechnology, part-time work and unionization.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE, LABR and SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: one of WISE 1F90, LABR 1P91 and 1P92, SOCI 1F90 or permission of the instructor.

WISE 3P33

### **Law and Society**

(also offered as SOCI 3P33)

Sociological theories of law, Canada's legal institutions, and the Charter of Rights and Freedoms, feminist jurisprudence and critical race studies. Relationships between Canadian law and Canada's social structure and institutions.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE and SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: WISE 1F90 or SOCI 1F90 or permission of the instructor.

WISE 3P41

### **Directed Studies I**

Guided readings on a topic that is not covered in the program's 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 readings on a topic that is not covered in the program's 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

### **Women and Leisure**

(also offered as RECL 3P43)

Feminist critique of leisure theory. Women's leisure explored from an ecological perspective. The ways that women's leisure influences and is influenced by the various domains of their environments (social, political, cultural, physical, historical, psychological and biological).

*Lectures, 3 hours per week.*

Prerequisite: RECL 2P11 or permission of the instructor.

#### WISE 3P49

##### **Gender and Environment**

(also offered as ENVI 3P49 and TOUR 3P49)

Intersection between gender and the environment. 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, ENVI (ENVP) (single or combined) and TOUR majors and ENVI (ENVP) certificate students.

Prerequisite: one of WISE 2P90 (2F90), 2P91, ENVI (ENVP) 1P90, 1P91 or permission of the instructor.

#### WISE 3P51

##### **Gender and Society**

(also offered as SOCI 3P51)

Gender as an organizing principle in society. The social construction of masculinity and femininity 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 and SOCI (single or combined) majors until date specified in the BIRT guide.

Prerequisite: WISE 1F90 or SOCI 1F90 or permission of the instructor.

#### 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.

*Lectures, seminar 3 hours per week.*

Restriction: open to WISE majors until date specified in the BIRT guide. Students must have a minimum of 6.0 overall credits.

#### 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 majors until date specified in the BIRT guide. Students must have a minimum of 6.0 overall credits.

#### 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 or 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, with an emphasis on contemporary Canada.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or 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)

The work of feminist geographers. The 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.*

Prerequisites: one of WISE 2P90 (2F90), 2P91, COMM 2P20 and 2P21, GEOG 2P02, 2P03, 2P06 or permission of the instructor.

#### WISE 3P86

##### **Women Writers of France**

(also offered as FREN 3P86)

Texts chosen from various genres. Authors may include M. de France, M. de Navarre, Sévigné, Sand, Colette, de Beauvoir, Duras, Yourcenar.

*Lectures, seminar, 3 hours per week.*

Prerequisites: FREN 2F00 and 2F03.

#### 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.*

Restriction: open to WISE majors until date specified in BIRT guide.

Prerequisite: WISE 2P90 (2F90) or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 3F91.

#### WISE 3P91

##### **Contemporary Feminist Research Methods**

Influence of various feminist and contemporary theoretical orientations on methodologies of cultural, political and rhetorical analysis and critique. The relationships between theory and research methods and the intersections of feminist theories with traditional practices in the process of developing potential research projects.

*Seminar, 3 hours per week.*

Restriction: open to WISE majors until date specified in BIRT guide.

Prerequisite: WISE 3P90 or permission of the instructor.

Completion of this course will replace previous assigned grade in WISE 3F91.

#### WISE 3P92

##### **Gender and Sexuality in Childhood and Adolescence**

(also offered as CHYS 3P92 and SOCI 3P92)

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, CHYS (single or combined), SOCI (single or combined) and CHYS BA/BEd majors until date specified in the BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: one of WISE 2P90 (2F90), 2P91, CHYS 2P38, SOCI 2P11 and 2P13 (2F10).

#### WISE 3P93

##### **Gender and Language**

(also offered as LING 3P93)

Survey of major debates concerning language, gender and power in the 20th century.

*Lectures, seminar, 3 hours per week.*

## WOMEN'S STUDIES

### WISE 3P95

#### **Experiential Learning in Women's Studies**

Co-ordinated and theoretically grounded work relating to the participation in and reflection on practical experiences.

*Seminar, 3 hours per week; community placements.*

Prerequisite: WISE 2P90 (2F90) 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.*

Restriction: open to WISE, BPhEd, BKin, and BPhEd/BEEd majors until date specified in the BIRT guide. Students must have a minimum of 8.0 overall credits.

Prerequisite: WISE 1F90 or PEKN 1P93 or permission of the instructor.

Note: Experiential work (somatic, movement, expressive) is part of the course experience.

Completion of this course will replace previous assigned grade in PHED 3P96.

### WISE 3P97

#### **Gender and Film**

(also offered as COMM 3P97 and FILM 3P97)

Critical study of gendered narratives in classical Hollywood cinema to the late 1950's, with emphasis on film constructions of femininity and masculinity, and the implications of spectatorship and ideology within classical film.

*Lectures, seminar, 3 hours per week, plus weekly film lab.*

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 1F90 and 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F97.

### WISE 3P98

#### **Screened Women**

(also offered as COMM 3P98 and FILM 3P98)

Critical study of woman-centred films from early to contemporary cinema by women directors from different countries, contextualized in issues of feminist film theory and paradigm shifts in female rep-

resentations, ideology and spectatorships. *Lectures, seminar, 3 hours per week, plus weekly film lab.*

Prerequisite: one of FILM 2F90, FILM 2P20 and 2P21, WISE 1F90 and 2P91 or permission of the instructor.

Completion of this course will replace previous assigned grade in FILM 3F97.

### WISE 3V90-3V99

#### **Special Topics in Women's Studies**

Topics selected on the basis of faculty expertise.

Prerequisite: WISE 2P90 (2F90).

### WISE 4F90

#### **Honours Thesis**

Independent research project under the supervision of a faculty adviser. Directed studies tutorial.

Restriction: open to WISE majors with approval to year 4 (honours).

Prerequisite: 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 4P01

#### **Latin American Women's Perspectives**

(also offered as SPAN 4P01)

Cultural constructions of women in Latin American society through such media as testimonial writing, oral history, narrative, drama, poetry, visual arts, and music. Innovations in popular and literary culture enabling women to rearticulate relationships of power and voice desires relating to individual and communitarian freedom. Includes authors such as Poniatowska, Kahlo, Menchu, Lispector, Navaro, Parra.

*Lectures, seminar, 3 hours per week.*

Prerequisite: WISE 1F90 or SPAN 2F00 or permission of the instructor.

Note: given in English. Spanish majors complete written assignments and exams in Spanish.

### 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, 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 WISE, LABR and SOCI (single or combined) majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: two LABR or SOCI credits or permission of the instructor.

Note: SOCI 2P32 recommended.

### WISE 4P33

#### **Advanced Seminar in Law and Society**

(also offered as SOCI 4P33)

Specific relationships between Canada's legal institutions and social structure and institutions; law and Aboriginal peoples, family and gender issues, environment, work and technology, feminist critique of legal theory and practice.

*Seminar, 3 hours per week.*

Restriction: open to WISE and SOCI (single or combined) majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisite: WISE 3P33 or permission of the instructor.

### WISE 4P41

#### **Directed Studies III**

Guided readings on a topic that is not covered in the program's 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 readings on a topic that is not covered in the program's 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. Top-

ics may include feminist theories, work, family, state, popular culture, race, militarism and violence.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE and SOCI (single or combined) majors until date specified in the BIRT guide. Students must have approval to year 4 (honours).

Prerequisites: two SOCI or WISE credits or permission of the instructor.

Note: WISE 3P51 recommended.

#### WISE 4P91

##### **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.*

Prerequisite: WISE 3P90 and 3P91.

Co-requisite: WISE 4F90.

Note: consult the Director regarding permission to register.

#### WISE 4P95

##### **Women and Sport**

(also offered as PEKN 4P95)

Historical and current issues relating to women's participation in sport. The influence of physiological, psychological and sociological factors on performance.

*Lectures, seminar, 3 hours per week.*

Restriction: open to WISE, BPhEd, BKin, and BPhEd/BEEd majors until date specified in the BIRT guide. Students must have a minimum of 12.0 overall credits.

Completion of this course will replace previous assigned grade in PHED 4P95.

#### WISE 4V20-4V29

##### **Selected Topics in Women's Studies**

Topics selected on the basis of faculty expertise.

Prerequisite: WISE 1F90.

# Writing

Note that not all courses are offered in every session. Refer to the applicable term timetable for details.

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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.

### WRIT 1P80

#### Introduction to Writing

Exploration of the connections among careful reading, writing and thinking; introduction to the analytical, grammatical and editorial tools needed for clear and forceful expression in well-articulated essays, from the narrative to the expository.

*Lectures, lab, 3 hours per week.*

Completion of this course will replace previous assigned grade in ENGL 1P80.

### WRIT 1P81

#### Academic Writing

Writing undergraduate papers, expression and organization of arguments, presentation of evidence, how and why styles and conventions differ across disciplines.

*Lectures, lab, 3 hours per week.*

Prerequisite: WRIT (ENGL) 1P80 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 1P81.

### WRIT 2P15

#### Technical Writing

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 (ENGL) 1P80 and 1P81, ENGL 1F91, 1F95, 1F99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 2P15.

### WRIT 2P16

#### Communication for Organizations

Theory, strategies and practice of writing for both business and public organizations.

*Lectures, lab, 3 hours per week.*

Prerequisite: one credit from WRIT (ENGL) 1P80 and 1P81, ENGL 1F91, 1F95, 1F99 or permission of the instructor.

### WRIT 3F05

#### Creative Writing

(also offered as ENGL 3F05)

The craft of creative writing, for selected students in any discipline.

*Seminar, 3 hours per week.*

Restriction: permission of the instructor.

Prerequisite: one credit from WRIT (ENGL) 1P80 and 1P81, ENGL 1F91, 1F95, 1F99.

Note: students must apply in writing, with portfolio, at least two weeks before the beginning of classes. Details from the department.

Completion of this course will replace previous assigned grade in WRIT 3P05 or ENGL 3P05.

### WRIT 3F10

#### Writing Pedagogies

Major pedagogies of contemporary writing instruction: composition theory; technology related to teaching writing; collaborative strategies; course design; responding to student writing; practical experience.

*Seminar, 3 hours per week.*

Prerequisites: one of WRIT 1P80 and 1P81, ENGL 1F91, ENGL 1F95, ENGL 1F99, one WRIT credit numbered 2(alpha)00 level or above or permission of the instructor.

### WRIT 3P09

#### Reporting and News Writing for Mass Media

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.*

Prerequisite: one credit from WRIT (ENGL) 1P80 and 1P81, ENGL 1F91, 1F95, 1F99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 3P09.

### WRIT 3P12

#### Information Literacy

Concepts and theories in communication and information retrieval with reference to a variety of media and information sources, including the Internet. The role of scholars and journalists in producing information. Strategies for acquiring, evaluating and communicating information.

*Lab, 3 hours per week.*

Prerequisite: one credit from WRIT (ENGL) 1P80 and 1P81, ENGL 1F91, 1F95, 1F99 or permission of the instructor.

Completion of this course will replace previous assigned grade in ENGL 3P12.

### WRIT 3P63

#### Desktop Publishing and Design

(also offered as COMM 3P63)

Practicum in desktop publishing, layout and design.

*Lectures, lab, 3 hours per week.*

Prerequisite: COMM 2F50 or 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 instructor.

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 level or above. The Chair must approve proposals for projects and circulate approved projects to the 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 instructor.

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 level

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 instructor  
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 level or above. The Chair must approve proposals for projects and circulate approved projects to the Department.

## Governing Bodies

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Head, Library Systems and Technologies: **Carol Wu**, BA *Chicago*, MLIS *British Columbia*

Head, Map Library: **Colleen Beard**, BSc *Brock*, MLS *Toronto*

Head, Reference Information Services, **Ian Gordon**, BSc *Guelph*, MLS *Western Ontario*

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**Carol Gaspari**, BA *Western Ontario*, BLS *Toronto*

## 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. Benjafeld <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 <i>Modern Languages, Literatures and Cultures</i>
1999	Roberta Robb <i>Economics</i>

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### Brock Award for Distinguished Research or Creativity

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1994	R. Peter Rand <i>Biological Sciences</i>
1995	Herbert L. Holland <i>Chemistry</i>
1996	W. D. Kenneth Kernaghan <i>Political Science</i>
1997	Sidney J. Segalowitz <i>Psychology</i>
1998	Howard E. Bell <i>Mathematics</i>
1999	Barry Grant <i>Communications, Popular Culture and Film</i>
2000	Robert Ogilvie <i>Psychology</i>
2001	Sandra Beckett <i>Modern Languages Literatures and Cultures</i>

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### Brock Award for Distinguished Teaching

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1998	John A. Lye <i>English Language and Literature</i>
1999	Barry W. K. Joe <i>Centre for Teaching Learning and Educational Technologies/Modern Languages, Literatures and Culture, Communications, Popular Culture &amp; Film</i>

2000	Anna Lathrop <i>Physical Education</i>
2001	Stefan Brudzynski <i>Psychology</i>

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### OCUFA Award Recipients

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1986	Donald J. Ursino <i>Biological Sciences</i>
1991	Mary Frances Richardson <i>Chemistry</i>
1992	Patricia Cranton <i>Education</i>
1994	Lorne J. Adams <i>Physical Education</i>
1995	Ann D. Duffy <i>Sociology</i>
1995	Eric R. Muller <i>Mathematics</i>
1998	Leslie Boldt-Irons <i>Modern Languages, Literatures and Cultures</i>
2000	Anna Lathrop <i>Applied Health Sciences</i>

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### 3M Teaching Award Recipients

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1989	Clarke W. Thomson <i>Geography</i>
1991	Donald J. Ursino <i>Biological Sciences</i>
2000	Barry W. K. Joe <i>Centre for Teaching Learning and Educational Technologies/Modern Languages, Literatures and Culture, Communications, Popular Culture &amp; Film</i>
2001	Anna Lathrop <i>Applied Health Sciences</i>

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**CASE Canadian Professor of the Year**


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1992 Mary Frances Richardson,  
*Chemistry*

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**Lieutenant Governor's Award  
for Teaching Excellence**


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1993 Patricia Cranton  
*Education*

---



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**Members of the Royal Society**


---

1994 R. Peter Rand  
*Biological Sciences*

1998 W. D. Kenneth Kernaghan  
*Political Science*

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**Chevalier dans l'Ordre des  
Palms 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*

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**Officier dans L'Ordre des  
Palms Académiques**


---

2001 Leonard A. Rosmarin  
*Modern Languages,  
Literatures and Cultures*

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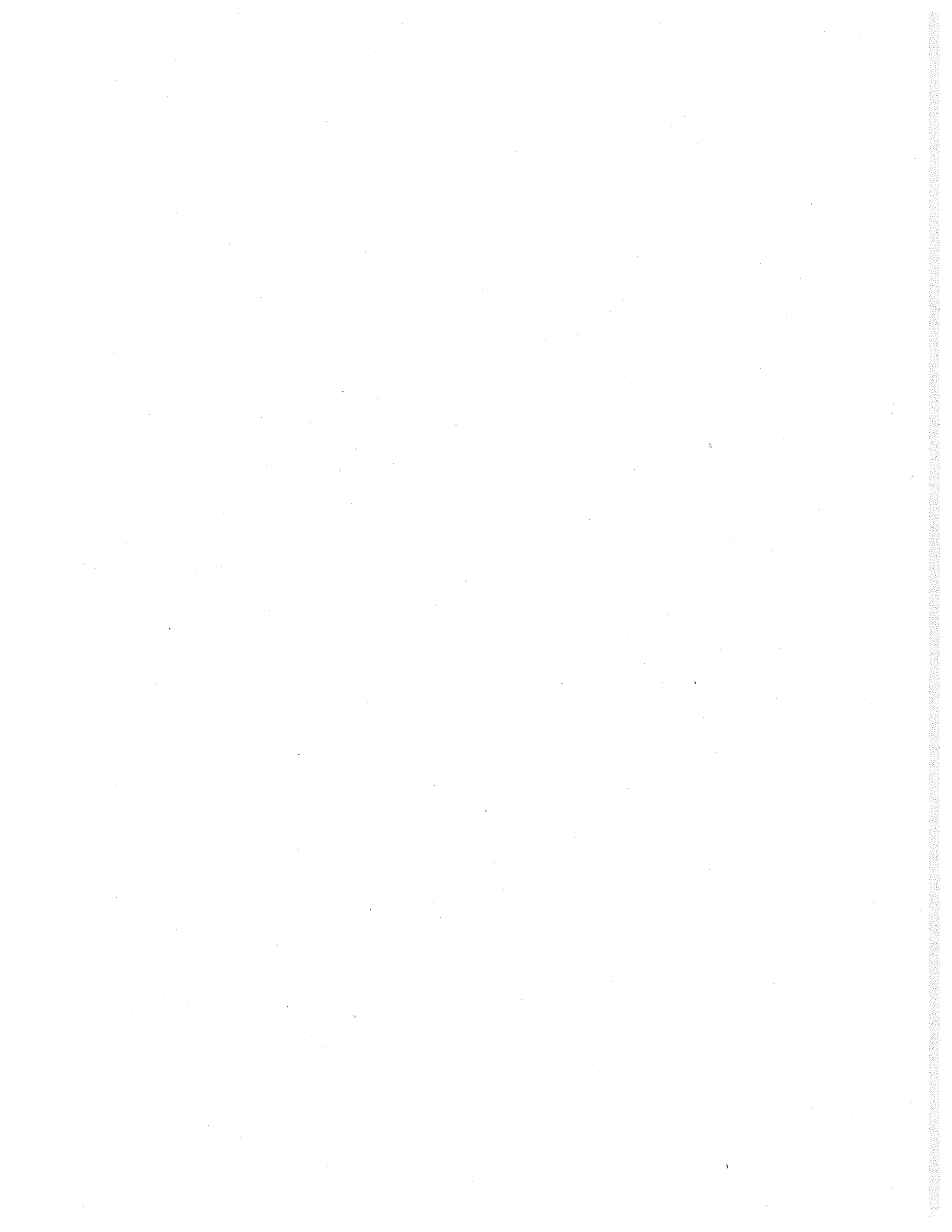
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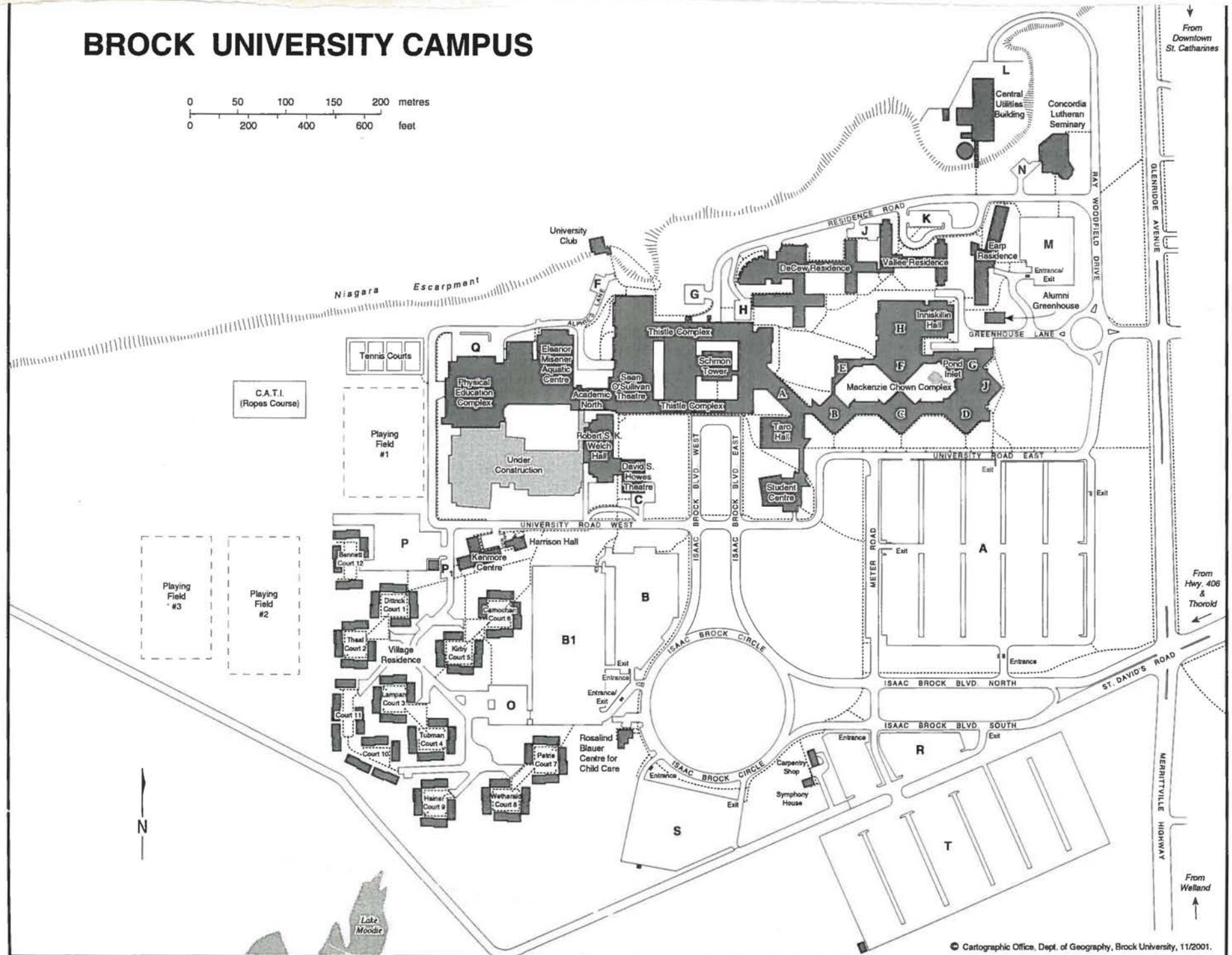
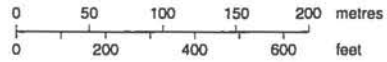
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### **We're No.1!**

The employment success of Brock grads is the highest for Ontario's 17 universities at 98.3 per cent.

### **The First Choice**

The percentage increase in student applications to Brock over the last five years is the highest in Ontario.

### **Co-operative Campus**

Brock offers the second highest selection of co-op programs among Ontario's universities — 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 won international awards for its student life programs for four straight years against U.S. and Canadian colleges and universities.

### **The Unique Pre-Med Experience**

Med Experience Plus is distinct in North America, offering students first-hand health-care experience.

### **Careers begin here!**

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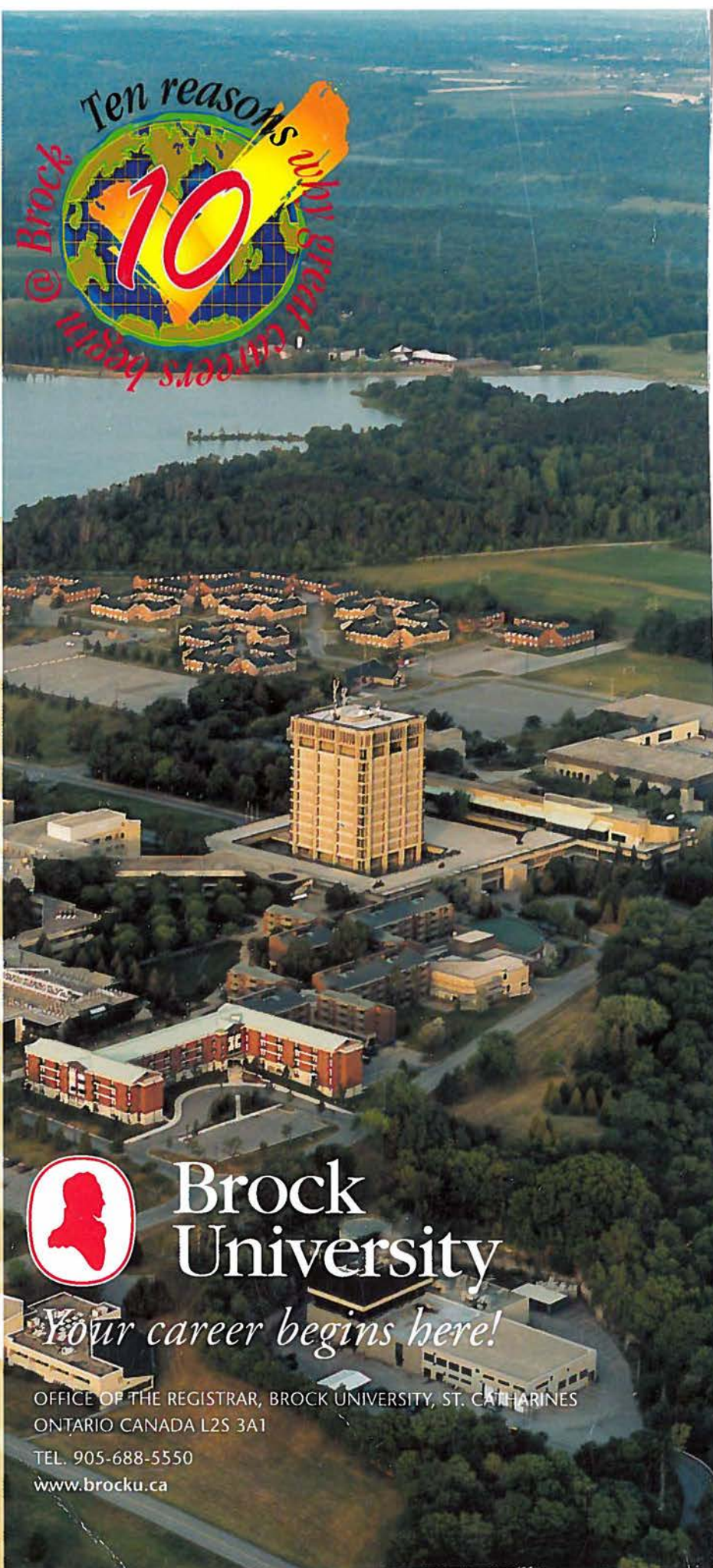
The Faculty of Applied Health Sciences educates health-care professionals for the 21st century.

### **Vine to Wine**

Inniskillin Hall is the home of North America's only institute for the study of cool climate grape growing and wine making.

### **Fine Balancing Act**

Brock was the first university in Canada to be rated by Standard and Poor's (A-) and we remain one of the nation's best-run institutions.



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